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ABSTRACT

This manual is intended to acquaint the faculty of physician assistant (PA) training programs with a model geriatric clerkship and to assist them in the process in implementing a similar clerkship. A detailed outline of the curriculum goals of a geriatric clerkship is included. The next section contains curriculum units on the following topics: communication skills, evaluation of health status, management of common health problems in noninstitutional elderly persons, health promotion/disease prevention, family and elder counseling, and long-term care issues. Suggested criteria for establishing a clerkship are enumerated. The following implementation steps are discussed: obtaining administrative support; adapting the model clerkship to the individual clerkship structure of a given program; implementing a preclerkship geriatric curriculum; generating faculty support for the clerkship plan; locating, selecting, and negotiating with appropriate training sites; selecting clinic preceptors and providing faculty development as necessary; selecting or developing written and audiovisual training materials and evaluation forms; developing a learning experience schedule; recruiting and scheduling individual students; following students and evaluating their progress; and evaluating the clerkship program. (Ten appendixes include an annotated bibliography on the role of PAs in geriatric medicine, an abstract of Medicare provisions for reimbursement of PAs, lists of geriatric care centers, bibliographies of materials of geriatrics, lists of facilities providing geriatric care, and answers to the postassessment test.) (MN)
MODEL GERIATRIC CLERKSHIP
FOR PHYSICIAN ASSISTANT STUDENTS:
The Continuum of Elder Care

Manual for Physician Assistant Programs

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### TABLE OF CONTENTS

- **PREFACE** ................................................................. 111
- **INTRODUCTION** ....................................................... 1-6
- **CURRICULUM GOALS** ............................................... 7-18
- **CURRICULUM UNITS** ............................................... 19-78
  1. Communication Skills .............................................. 23-26
  2. Evaluation of Health Status ....................................... 27-54
  3. Management of Common Health Problems in Non-Institutional Elders ........................................ 55-60
  4. Health Promotion/Disease Prevention ............................ 61-66
  5. Family and Elder Counseling ..................................... 67-70
  6. Long Term Care Issues ............................................ 71-78
- **SUGGESTIONS FOR IMPLEMENTATION** ............................... 81
  - Suggested Criteria to Establish Clerkship ...................... 81
  - Steps in the Process of Implementation .......................... 82-148
    1. Obtaining Administrative Support .............................. 83-84
    2. Adapting the Model Clerkship to the Individual Clerkship Structure of the Program ...................... 84-85
    3. Implementing Pre-Clerkship Geriatric Curriculum ............ 85
    4. Generating Faculty Support for the Clerkship Plans and Obtaining Appropriate Institutional Curriculum Review ........................................ 86
    5. Locating, Selecting, and Negotiating with Appropriate Training Sites .......................... 86-96
      Checklist for Selection of Clinical Sites .................... 93
    6. Selecting Clinic Preceptors and Providing Faculty Development as Necessary .......................... 96
7. Selecting or Developing Written and Audio-Visual Teaching Material and Evaluation Forms ........................................ 96-98
   Sample Evaluation Instruments ........................................ 99-130
8. Developing Schedule of Learning Experiences ...................................... 131
   Sample Schedule .................................................................. 132-146
9. Recruiting and Scheduling Individual Students ................................... 147
10. Following Students and Evaluating Their Progress ............................. 147
11. Evaluating Clerkship, Revising as Needed ....................................... 147-148

APPENDICES ........................................................................ 149-246
A. PAs in Geriatric Medicine: An Annotated Bibliography .................. 153-162
B. Abstract of Medicare Legislation Allowing Reimbursement for PA Services ........ 163-166
C. List of Geriatric Education Centers (GECS) ................................ 167-176
D. Graduates of Geriatric Education for PA Faculty (GEPAF) Program .... 177-182
E. Bibliographies of Geriatric Textbooks, Journals, and Articles .......... 183-220
   Article Evaluating Textbooks ............................................. 217-220
F. Order Blank for Geriatric Curriculum Resource Package .......... 221-224
G. List of Geriatric Research, Educational and Clinical Centers (GRECCs) in VA Medical Centers ............................ 225-232
H. List of Area Health Education Centers (AHECs) ............................ 233-236
I. List of Hospital Based Home Care (HBHC) Programs in VA Medical Centers ................................. 237-242
J. Answers to Post-Assessment Test ............................................. 243-246
Glossary .................................................................................. 247-250
Index ....................................................................................... 251-256
The contents of this manual were developed to assist Physician Assistant training programs in implementing a geriatric clerkship. With the assistance of a Working Committee, consultants, field test coordinators, and a staff rich in expertise in geriatric education, the Division of Family Medicine at Stanford University School of Medicine developed the Model Geriatric Clerkship for PA students as part of a contract with the Bureau of Health Professions.

We are particularly indebted to the following highly skilled contributors to the Model for their interest, support, time and talents:

Project Officer Don Buysse; Members of the Working Committee Walter Bratze, M.D.; Bill Kent, PA-C, M.A.; Carol McMorror, PA-C, B.H.S.; Kathy Orchen, PA-C, M.P.H.; Correne Treguboff, F.N.P., M.H.S.; John Walsh, M.D.; and Antonette Zeiss, Ph.D.; Consultants Rein Tideiksaar, Ph.D.; Mary Goldstein, M.D., and Ron Garcia, Ph.D.; Field Site Coordinators Kathy Kundert, of MEDEX Northwest PA Program at the University of Washington, Seattle, Marc Dicker, of Wichita State University PA Program, and Ron Dobrzynski, of Mercy College of Detroit PA Program; the preceptors and other clinical supervisors in the field test training settings; and most of all -- the ten PA students who gave a month of their lives to field test the Model for the students who will follow.

After the materials describing the Model were drafted in 1986, they were field-tested in three PA training programs representing varied types of organizational affiliations and structures and varied geographical areas. Those programs were: MEDEX Northwest at the University of Washington, Seattle; Mercy College in Detroit, Michigan; and Wichita State University in Wichita, Kansas. In addition, the Stanford-Foothill Primary Care Associate Program conducted an unofficial field test of the Model. This manual represents the Model and its revisions made as a result of the cumulative experience of those field trials.

It is our sincere wish that Directors and faculty members in PA training programs across the country will find this manual helpful enough that it will not be left on the shelf long enough to become another dusty reminder of a planning project. We would like very much to hear from you as you consider the appropriateness of the Model for your program and ponder the type of modifications that would make it most usable. If we can help by listening, problem-solving, or sharing the experiences of other programs, please write or call us at the Stanford Geriatric Education Center, 703 Welch Road, Suite H-1, Stanford University School of Medicine, Stanford, CA 94305, (415) 725-4489.

Gwen Yeo
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Introduction
INTRODUCTION

Need and Philosophy for Unique Geriatric Clerkship Using Multiple Levels of Care

Leaders in the growing field of clinical geriatric education express a unanimous opinion that teaching the medical skills involved in caring for older patients is best accomplished by exposing students to elders in a variety of health care settings. Because ambulatory, inpatient, long term care, and community experiences are all necessary for students to see the range of problems and interventions involved in care for the rapidly increasing, heterogeneous population of older adults, the traditional clinical rotation in which students are sent to learn with preceptors or supervising practitioners in one hospital unit or nursing home is not an adequate model.

It was this conviction that a new kind of model for a geriatric clerkship was needed for Physician Assistant (PA) students that led the Division of Medicine of the Bureau of Health Professions to develop the initiative and funding for the Model Geriatric Clerkship for PA Students in 1985. Based on a thorough review of the literature, the experience and expertise of an extremely knowledgeable Working Committee, and insights gained from field tests, Stanford University’s Division of Family Medicine has completed the new model based on the following concepts.

1. Although each PA training program has its own unique structure and set of resources, the availability of a comprehensive, well-grounded geriatric clerkship model will allow each program to develop its own offering in an informed manner.

2. PA's will be needed to fill multiple roles in the care of the 20% of the population aged 65 and over expected in the 21st century, including: health education and health maintenance; counseling elders and their families; comprehensive functionally oriented health assessment; diagnosis and management of routine acute conditions and multiple chronic conditions for independent elders as well as nursing home residents; preadmission and posthospitalization care; and coordinating home, community, and institution-based long term care.

3. A major determinant of the quality of geriatric care is the attitude of the health care provider toward aging and elders. PA's are particularly at risk for developing negative attitudes if they are exposed exclusively or primarily to very frail elders or nursing home residents and have no opportunity to observe the majority of older adults who are independent and functioning well.
4. The utilization of the multidisciplinary team is essential for good geriatric care.

5. There are insights and skills important for adequate health care of older adults that are different from those found in traditional adult medicine. Chief among those are: the ability to avoid the mistaken attribution of treatable illnesses to normal aging, and thereby miss the opportunity to intervene; the ability to adjust pharmacological therapy appropriately for the unique physiological changes that may occur with age and the dangers inherent in polypharmacy; diagnostic and treatment skills for those chronic conditions that occur frequently among older adults, especially in view of common atypical presentation and multiple pathology.

Requirements of the Model Based on Contract Specifications

The Model Geriatric Clerkship was required by the contract from the Bureau of Health Professions to have the characteristics listed below.

1. It must be a 4-6 week block clerkship.

2. It must focus on care of the elderly in a variety of clinical settings.

3. It must include the following components:
   a) Clerkship goals that are stated as competencies and attributes PA's should have in giving care to well and ill elders;
   b) Clerkship units, each of which must contain goals, behavioral objectives, learning experiences, teaching strategies, and approaches for evaluation; and
   c) A proposed format or schedule for the learning experiences.

4. It must be field tested in three PA programs with different organizational configurations.

5. Guidelines for implementation must be included.
Suggestions for Using this Manual

The material that is included in this manual is designed to acquaint the faculty of PA Programs with the Model Geriatric Clerkship and to assist them in the process of its implementations. The usefulness of the Model and the manual will depend completely on the degree to which they are considered tools for development of a geriatric clerkship rather than a final plan that should be used intact or not at all. It is crucial that each program adapt the Model to its own resources and structure.

In beginning the consideration of the Model and its fit for your program, it is suggested that the Curriculum Goals and Curriculum Units be reviewed briefly for their basic approach, then the section on Suggestions for Implementation be read carefully to structure the process of making decisions and assigning tasks that will need to be addressed to assure the best possible outcome. It should be emphasized that the recommended Steps in the Process of Implementation found in the Suggestions for Implementation section are meant to be very rough guidelines for tasks that need to be addressed for a successful clerkship, but the order and details of those tasks will vary considerably among the programs.

The person who is assigned the responsibility of coordinating the implementation of the Model Geriatric Clerkship will need to study the Curriculum Units in detail and make recommendations on the revisions needed to make the Model fit most effectively into the program's structure. Working closely with the Director, other faculty members in the program and the school, and members of the network of geriatric services in the community, the coordinator can devise the best possible version of the Model that meets the needs of all involved.
Curriculum Goals
INTRODUCTION TO CURRICULUM GOALS

In order to develop a sound curriculum for the Model Geriatric Clerkship, the first task required by the contract was identification of the Curriculum Goals. They were to specify the competencies and attributes the learners should possess based on what program graduates would be required to do as practitioners in geriatric care. The following pages contain those Curriculum Goals which formed the basic structure and direction on which the Model was built.

Although the Curriculum Goals are targeted to the outcomes of learning in a clerkship, they are comprehensive enough to be considered goals for the entire geriatric track of a physician Assistant training program if the geriatric curriculum is integrated throughout the preclinical and clinical years.
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

CURRICULUM GOALS

Competencies:

In addition to competencies expected in general clinical care, the special performance responsibilities of physician assistant (PA) practitioners caring for older adults include those listed below. In each case the PA would be working under the supervision of a practicing physician.

I. Communicate in an understanding and clear manner with elders with an awareness of the following issues.

A. Realize that elders may have an increased response time and high probability of hearing and/or vision losses.
   1. Maintain respectful tone and language.
   2. Recognize and respond to culturally diverse needs and communication styles among elders from various ethnic backgrounds.
   3. Use compensatory techniques effectively when communicating with elders with sensory deficits.

II. Evaluate the health status of older patients using an approach that recognizes the importance of biological, social, and psychological factors; and emphasizes functional assessment in addition to diagnosis of disease entities.

A. Take history from patient and/or family members with attention to the following areas.

   1. Allow extended time for elder to describe functional problems, symptoms, and past health incidents.
      
      Pace history-taking to allow adequate time within the constraints of cost-effective clinical care. Use more than one session or use caregiver as resource, if needed, to compensate for elder's fatigue or confusion.

   2. Be aware of potential underreporting of symptoms.
      
      Recognize and compensate for causes of underreporting: ageism that leads elders to discount symptoms; embarrassment (e.g., incontinence); confusion; depression; age-related decrease in pain sensation.
3. Obtain social history that includes facts about the patient's place of residency, living arrangements and transportation; important relationships with family and friends; sexual history; health insurance; income status and sources; and/or occupation.

4. Obtain past medical history with special emphasis on: accidents or falls; medications and their effects; other health care providers; immunizations; presence of "living will" or other instructions concerning life-sustaining treatment.

Follow-up with family or other providers to complete information, if needed.

5. Evaluate complaints and symptoms related to each organ system, using knowledge of common geriatric problems.


7. Record current prescription and over-the-counter medications. Have elder bring in all medications.

Inquire about elder's usage and understanding of his/her medications.

Include health behaviors: smoking, alcohol, exercise.

B. Perform a physical examination of elders with no mobility impairment as well as those who are bedbound, in wheel chairs, or confused. Using gentle techniques, treat elders with dignity, and avoid unnecessary embarrassment. In addition to the standard review of systems, special attention is given to the variations needed for older patients, reflecting unique geriatric problems.

The examination may be conducted in an office, hospital, home, or nursing home setting. Adapt exam as necessary for elders with disabilities.

C. Perform (or arrange for and interpret) additional evaluations in following areas.

1. Activities of daily living (ADL)
   Observe functional level when appropriate

2. Instrumental activities of daily living (IADL)
   Ask elder to demonstrate function

** Details will be provided in behavioral objectives.
3. Psychological screening
   a. Mental status: Folstein Mir' Mental Status Exam (cognition)
   b. Depression
   c. Stress and coping
   d. Sensory deprivation
   e. Refer for evaluation of psychological distress such as anxiety, panic, paranoia (especially with sensory loss), agoraphobia, if suspected

4. Incontinence screening

5. Evaluation for safety of home environment by home visit

6. Specific dementia assessment if indicated by mental status exam or history

7. Screens:
   a. Stool guaiac for colorectal cancer
   b. Tonometry for glaucoma
   c. Pap smear for cervical cancer
   d. Mammography for breast cancer

8. Laboratory tests,** as indicated, with attention when interpreting results to normal differences in the parameters that can occur with age.

   Minimize unnecessary problems with transportation, mobility, or cost when ordering tests.

D. Develop a problem list focused on geriatrics reflecting functional issues related to both chronic and acute conditions.

E. Prioritize problems listed and develop management plan.

III. Manage common health problems in non-institutionalized elders.

A. Diagnose and manage routine care of major types of chronic and acute illnesses affecting elders.** Evaluate medications and other treatments, functional level, and presence of new symptoms in periodic follow-up contacts, with special attention to the following common situations:

   ** Details will be provided in behavioral objectives.
1. Multiple pathologies

2. Iatrogenic conditions

3. Atypical presentation of disease

B. Utilize consultations and make referrals to clinical specialists, home health agencies, rehabilitation specialists, hospice support groups, and other community agencies when needed to maximize function of elder patient.

Case manage elder's health care. Maintain complete file of geriatric resources and specialists in community.

C. Work with other health care providers as team or health care member in giving geriatric care in various settings, including outpatient, inpatient, home-health, geriatric assessment, rehabilitation, and skilled nursing facilities. Coordinate care with other health care professionals, such as: physician specialist, social worker, nurse, physical therapist, occupational therapist, nutritionist, podiatrist, psychologist/psychiatrist, dentist, pharmacist, religious counselor.

D. Assist with admission and discharge from acute care hospitals: perform preoperative evaluation and post operative follow-up as needed.

IV. Perform health promotion/disease prevention services as designated below.

A. Administer recommended immunization.

B. Give health education to elders, their families or groups of elders for the purpose of health promotion, health maintenance, and disease prevention. Important areas for elders include:

1. Nutrition
2. Exercise
3. Risks of smoking and alcohol abuse
4. Fall and accident prevention
5. Breast self-examination
6. Use of medications, signs and dangers of iatrogenic complications
7. Temperature regulation
8. Oral hygiene
9. Self-management strategies for chronic diseases
10. Health insurance

11. Prevention of complications of immobility: contractures, pressure sores, osteoporosis, pneumonia

12. Crime prevention

13. Resources to maintain maximum independence

14. Emergency resources

C. Maintain records of regular check-ups. Administer screening protocols.

D. Administer routine health maintenance, such as:
   1. Foot care
   2. Removal of impacted cerumen

V. Counsel with elders and their family members.
   A. Listen empathetically and provide information on options for dealing with common stresses and problems encountered by older adults with special emphasis on support for dementia patients and their families.
   B. Give consultation and follow-up in decision-making and health maintenance issues, including the following:
      1. Housing resources and relocation decisions
      2. Community resources for health and social support including respite care for families, family support groups, and psychotherapy
      3. Admission and discharge planning to hospitals, rehabilitation units, intermediate care and skilled nursing facilities
      4. Medi-Care/Medicaid, including resources for assistance with forms
      5. Hospice care for dying patients
   C. Support family members and provide information on options for treatment or assistance in cases of:
      1. Family conflict regarding care of an elder
      2. Decisions for treatment when elders cannot make decisions for themselves; keep on file elder's current instructions for life-sustaining or "code" care
      3. Bereavement
D. Give support, counsel, and assistance to elders in cases of elder abuse. Report to legal agency. Refer to protective services.

E. Give special assistance - including coordination of resources - to elders without family support

VI. Perform special competencies needed in long term care settings

A. Perform pre-admission assessments in residential settings

B. For patients with mobility impairments, help reduce complications of immobility by:
   1. Recommending and supporting utilization of programs by physical therapists or caregivers to maintain activity levels at highest possible functioning; monitoring indices of function (e.g. range of motion)
   2. Monitoring signs of contractures and pressure sores
   3. Monitoring signs of constipation and dehydration

C. Support staff or caregivers' efforts towards:
   1. Decreasing and/or preventing depression by increasing elder's autonomy as much as possible
   2. Providing sensory and intellectual stimulation in activity programs
   3. Helping the elder with life review or reminiscence
   4. Establishing support groups for family members of residents
   5. Providing bowel and bladder training

D. Utilize the following procedures when necessary
   1. Debridement of pressure sores
   2. Insertion of
      a. Urinary catheters
      b. Nasogastric tubes
   3. Treatment for
      a. Pneumonia
      b. Urinary tract infection
   4. Removal of fecal impaction
5. Assistance with and education of caregivers in the management of gastrostomy tubes

F. Monitor use of medications, especially those prescribed on a PRN basis; monitor changes in mental status and behavior as a correlate of medication use.

Attributes:

The Physician Assistant Practitioner caring for older adults should possess the following attributes:

1. Appreciation of the role of other interdisciplinary team members in providing effective health care for older adults.

2. Recognition of the diversity within the older adult population.

3. Sensitivity to the consequences of negative ageist stereotypes of older people.

4. Recognition of the danger of attributing merely to old age the treatable disabilities among older adults.

5. Support for the value of autonomy and independence of older adults as appropriate for the well-being of older adults, with special sensitivity to the danger of "infantilization" of older patients, and to the need for dignified and respectful treatment.

6. Appreciation of the need for patience in interacting with older adults, due to slower response times.

7. Belief in the capacity of elders to improve physically and psychologically, and to profit from rehabilitation strategies.


9. Empathy for older adults undergoing losses in social roles, and/or sensory and functional abilities.

10. Respect for sexual needs and behavior among elders.

11. Respect for role of the family caregivers and other family members of older patients, support for them as the major source of health care and recognition of their own health care and respite needs.

12. Commitment to cost-containment strategies consistent with effective and humane geriatric care.

13. Concern for the constant danger of iatrogenesis from medical treatments of elders' conditions.

14. Sensitivity to the difficult ethical issues involved in geriatric care.
15. Support for value of death with dignity, as exemplified in pain-free, conscious, terminal illness, including clear communication with intimates and minimal technological intervention.

16. Sensitivity to cultural variations in health beliefs and health behaviors among minority elders.

17. Commitment to the value of life-long learning by the PA for continued increase of knowledge in the field of geriatrics and aging.
Curriculum Units
INTRODUCTION TO CURRICULUM UNITS

Although many programs begin planning clerkships by identifying clinical training sites and making schedules of where to send students on what days, it is helpful to first consider what knowledge, skills, and attitudes students are expected to learn and how they are expected to learn them during their participation in the clerkship. Since in geriatrics the content areas, as well as the settings, are varied if students are to see the full range of care for older adults, the Model's six Curriculum Units on the following pages are developed to emphasize different aspects of that care. They are not necessarily in chronological order; in fact, contents of most of the Units will probably be taught concurrently. For example, the skills involved in good communication with elders covered in Unit One will most likely be taught continually throughout the clerkship in outpatient, long term care, and health promotion settings, along with the skills emphasized in the later Units.

Each of the Curriculum Units contains sections on the goal, characteristics of the learners, learning objectives (based on the Curriculum Goals in the previous section), content, learning experiences, support services needed, and methods of evaluation for the subject to be taught. Format for the units were based on the Kemp Model of Instructional Design. Of course, the units will need to be adapted to the type of resources, schedule, and students in each program. As mentioned elsewhere in this Manual, the coordinator planning the geriatric clerkship will need to consider especially the wisdom of including the seminars and readings that are included in the Units in this Model, given the traditional method of clinical training and teaching personnel available in that particular program.

One particular organizational strategy for the Curriculum Units should be noted, and that is the placement of the material on dementia. Although the evaluation and management of confusion and impaired cognitive status could logically be included in several of the Units, the readings and emphasis for that topic was placed in Unit Five: Family and Elder Counseling since dementia is so frequently the focus of interaction with caregivers of frail elders and other family members. It does, of course, need to be considered as an integral part of both outpatient and long term care as well as in the functionally oriented evaluation of health status.

REFERENCE

MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

CURRICULUM UNIT ONE

COMMUNICATION SKILLS

I. Goal

This unit is designed to introduce students to age-related changes that affect communication and to increase students' skills in communicating with elders.

II. Learner Characteristics

Students are in physician assistant training programs taking a clerkship in geriatrics. Prior training in clinical primary care, and some didactic training in geriatrics/gerontology are assumed.

III. Learning Objectives

A. After completion, students should be able to:

1. Maintain respectful tone and language.

2. Communicate in an understanding and clear manner in view of elders' increased response time and high probability of hearing and/or vision losses.

   Use compensatory techniques effectively when communicating with elders with known sensory deficits.

3. Recognize and respond to culturally-diverse needs and communication styles among elders from various ethnic backgrounds.

B. The following attributes should be exhibited:

1. Sensitivity to cultural variations in health beliefs and health behaviors among minority elders.

2. Appreciation of the need for patience in interacting with older adults in recognition of slower response times.

3. Recognition of the diversity within the older adult population.

4. Sensitivity to the consequences of negative ageist stereotypes of older people.

5. Recognition of the danger of attributing to merely old age the treatable disabilities of older adults.
6. Belief in the capacity of elders to improve physically and psychologically, and to profit from rehabilitation strategies.

7. Concern for the self-esteem of older adults in view of frequent threats to feelings of self-confidence and value.

8. Empathy for older adults undergoing losses in social roles, and/or sensory and functional abilities.

IV. Subject Content

A. Common sensory and response-rate changes among older adults, their influence on communication and elders' adaptive strategies for each.

1. Vision
   a) Lens opacity/cataracts
   b) Macular degeneration
   c) Glaucoma
   d) Diabetic retinopathy

2. Hearing
   a) Presbycusis/sensorineural loss
   b) Conductive hearing loss/cerumen impaction

3. Speed of Response

B. Social and psychological issues in communication.

1. Wide diversity on most variables
   a) Ethnic diversity
      1) Language
      2) Role of elders
      3) Health beliefs and behaviors
   b) Cognitive and social skills

2. Ageism among both health care providers and patients.

3. Commonly-encountered characteristics affecting communication.
   a) Need for social interaction and confirmation of personal worth.
   b) Anxiety and/or depression
c) Confusion

V. Pre-Assessment

If resources are available students' communication skills can be assessed before the unit by an observed or videotaped interaction with an older patient.

VI. Learning Experiences

A. Reading assignments:


   a) Chapter 3, Interviewing and history taking, pages 38-45
   b) Chapter 9, Hearing disorders
   c) Chapter 10, Visual disorders


B. Seminar Activities

1. View videotape: "Age Related Sensory Loss: An Empathic Approach".

2. Participate in discussion session on communication, including cultural variations and ageism.

3. Act out a simulated communication with an elder who has hearing loss.

C. Communication with Older Patients *

1. Take a health history.

2. Conduct a problem-oriented patient encounter.

3. Participate in patient encounter with elder who immigrated from a country where English is not spoken, if possible.

* Note: Remainder of learning activities in Unit One are also listed in following units.
D. Patient Education/Counseling

1. Give individual health education/maintenance instruction on chronic condition.

2. Give a group presentation to a group of seniors.

3. Conduct a patient encounter on a problem involving emotional or psycho-social issues.

E. Family Consultation/Counseling

1. Conduct a consultation with family caregiver or other family member on caregiver or elder's problem.

VII. Support Services

In addition to the clinical training sites that would provide the opportunity for individual, group, and family interaction, resources for a seminar session should also be available. These would include: 1) a small space for reading, videotape viewing, and discussion; 2) video equipment to view a 3/4" tape; and 3) a seminar coordinator to spend 30 minutes with the student to discuss ageism, and ethnic issues and to participate in role play of elder with hearing loss.

VIII. Evaluation

A. Competency Skills Rating

1. Performance ratings on student's communication skills by:
   a) Site or clerkship coordinator
   b) Student
   c) Elders and families

B. Attitude assessment

1. Ratings of attitude toward elders completed by:
   a) Site coordinators
   b) Elders and families

2. Journal records of interviews and emotional reactions
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

CURRICULUM UNIT TWO

EVALUATION OF HEALTH STATUS

I. Goals

In this unit, techniques of assessing an older patient's health status using a functional approach will be introduced.

II. Learner Characteristics

Students are in physician assistant training programs taking a clerkship in geriatrics. Prior training in clinical primary care, and some didactic training in geriatrics/gerontology are assumed.

III. Learning Objectives

After completion the student should be able to do the following:

A. Evaluate the health status of older patients using an approach that recognizes the importance of biological, social, and psychological factors; and emphasizes functional assessment in addition to diagnosis of disease entities. (Form that can be used for assessment can be found at end of Curriculum Unit Two.)

1. Take history from patient and/or family members with attention to the following areas:

   a) Allow extended time for elder to describe functional problems, symptoms, and past health incidents. Use more than one session or use caregiver as resource, if needed, to compensate for elder's fatigue or confusion.

   b) Be aware of potential underreporting of symptoms. Recognize and compensate for causes of underreporting: ageism that leads elders to discount symptoms; embarrassment (e.g. incontinence); confusion, depression; age-related decrease in pain sensations.

   c) Obtain social history that includes transportation, and living arrangements; important relationships with family and friends, especially the presence of a confidante; sexual history; health insurance; income status and sources; activities and/or occupation.

   d) Obtain past medical history with special emphasis on: accidents for falls; medications and their effects; other health care providers, immunizations, presence of "living will" or other instructions for life sustaining treatment decisions.
e) Explore current and past nutritional status. Inquire about: frequency of eating alone, need for assistance in shopping and preparing meals, financial contraints on food purchases, typical daily diet.

f) Record current prescription and over-the-counter medications. Have elder bring in all medications. Inquire about elder's usage and understanding of h.s/her medications.

g) Inquire about health behaviors: smoking, alcohol, exercise.

h) Inquire about complaints and symptoms related to each organ system, reflecting knowledge of common geriatric problems. (See section on attached assessment form for specific topics.)

2. Perform a physical examination of elders with no mobility impairment as well as those who are bedbound, in wheel chairs, or confused, using adaptive techniques for elders with disability. Treat elders with gentleness and dignity, avoiding unnecessary embarrassment. The examination may be conducted in an office, hospital, home, or nursing home setting. In addition to the standard review of systems, give special attention to the variations needed for older patients, reflecting unique geriatric problems as follows:

a. Vital signs

1) attend to repeated blood pressure measurements, postural changes in blood pressure suggestive of orthostatic hypertension, the risk of systolic hypertension, relation of current medication to blood pressure

2) be aware of the need for baseline data on respiration to help assess possible future complaints such as dyspnea or conditions such as pneumonia

3) recognize variations within the normal ranges common older adults in pulse irregularities and weight changes

b. General appearance and behavior

1) poor personal grooming and hygiene as a possible sign of poor overall functioning and/or depression

c. Skin

1) watch for possible basal cell carcinomas and actinic keratoses
2) watch for ulcerations or infections in lower extremities that could signal vascular or neuropathic problems, especially among diabetics

3) watch carefully for pressure sores in immobilized patients

4) watch for excessive dryness

d. Ears

1) use tuning fork to screen for high frequency hearing loss; note functional conversational problems

2) evaluate the effectiveness of patient's hearing aid

3) check for cerumen plug

e. Eyes

1) test visual acuity, and observe functional performance (e.g. have patient read a newspaper or phone book)

2) do a special screening for treatable early-stage primary open-angle glaucoma

3) do a confrontational testing for hemianopsia

4) observe eyelids for entropion or ectropion

f. Mouth

1) remove dentures to observe fit and evidence of pathology on gums or tongue

2) observe oral hygiene

g. Chest

1) do a breast examination (important)

2) observe for kyphosis and/or new or active compression fractures

3) recognize fact that rales are commonly heard in elders in absence of pulmonary or heart complications

h. Cardiovascular

1) differentiate among commonly-occurring benign and pathological systolic murmurs and bruits

2) record absence or presence of base-line distal pulse for use in future diagnoses
3) observe carefully for edema in extremities
4) examine carotid and vertebrobasilar arterial system

i. Abdomen
1) examine liver and bladder (important)
2) palpate for aortic aneurysms
3) do a rectal exam

j. Genitourinary
1) examine for treatable and symptomatic atrophic vaginal problems

k. Musculoskeletal
1) evaluate each area of periarticular pain
2) examine range of motion, tenderness, or swelling in each joint; observe functional abilities (e.g. dressing, reaching, opening jars)
3) observe walking pattern and strength

l. Neurological
1) do a mental status exam (important) including a standard screening tool (30-item Folstein mini-mental exam is recommended)
2) evaluate gait (important) for potential instability and falls
3) evaluate proximal muscle weakness
4) distinguish common benign abnormalities in sensation and reflexes from pathological abnormalities
5) evaluate speech and language problems such as dysarthria or aphasia

3. Perform or arrange for additional evaluations in the following areas:
   A. Activities of Daily Living (ADL's)
   B. Instrumental Activities of Daily Living (IADL's)
   C. Psychological screening, using cultural or language variations with elders from ethnic minorities
      1) depression
2) symptoms of psychological distress (e.g., anxiety, panic, agitation, paranoia with sensory loss, agoraphobia) can be explored for possible referral for further evaluation. Global Assessment scale can be used for overall screening.

D. Incontinence evaluation, if symptoms are reported

E. Environmental assessment by a home visit, if possible

F. Specific dementia assessment, if indicated by mental status exam or history

G. Assessment of falls, if indicated by history

4. Order laboratory tests as indicated by history and physical exam. Minimize unnecessary problems with transportation, mobility, or cost when ordering tests. Give attention to differences in the following lab parameters with age when interpreting results:

   a) sedimentation rate
   b) glucose
   c) creatinine
   d) albumin
   e) alkaline phosphatase
   f) serum iron
   g) urinalysis
   h) chest x-rays
   i) electrocardiogram

5. Develop a problem list focused on geriatrics reflecting functional issues related to both chronic and acute conditions.

6. Prioritize problems listed and develop management plan.

IV. Subject Content

A. Philosophy and use of functionally-oriented comprehensive health assessment.

   1) Multidisciplinary assessment (or evaluation)
   2) Single-provider assessment
   3) In multiple settings
B. Unique components and techniques for functionally-oriented assessment with elders.

1. History
   a) Include functionally-oriented questions concerning complaint, history of present illness, past medical history, social history
   b) Ask for patient to bring in medications (prescriptions and over-the-counter) and explain their use

2. Screens needed for specific assessments
   a) Cognitive status
   b) Depression
   c) Incontinence, if indicated

3. Functional status
   a) Activities of Daily Living
   b) Instrumental Activities of Daily Living

4. Physical Examination
   a) Review of systems: include functional consequence of any disability found

5. Laboratory tests
   a) Evaluate results in light of altered parameters with age

6. Environmental Assessment

7. Develop problem list and management plan using functional perspective and goals

C. Variations in techniques of assessment for wheelchair or bedbound elders.

V. Pre-Assessment

Before the clerkship, students will be given a short written inventory of their familiarity with some of the information to be presented during the clerkship. Included will be some information on long-term care issues.
VI. Learning Activities

A. Reading assignments


B. Seminar Session

1. View videotape on functional assessment

2. Review forms and processes used in functionally-oriented evaluation

C. Perform comprehensive functionally-oriented health evaluation on ambulatory community-dwelling older patients and wheelchair-bound or bedbound elder.

1. Perform histories and physical examinations and additional evaluations using functional evaluation forms.

2. Order needed laboratory tests and record results.

3. Develop problem lists including functional and medical problems based on the results of lab tests.

4. Present cases to clinical instructor and make recommendations for management plan.

D. Attend Multidisciplinary Geriatric Assessment (or Evaluation) Unit Team Meeting, if resource is available.

E. Perform home visit for purpose of evaluating home environment.

VII. Support Services

To accomplish this unit, a clinical setting with older patients available for comprehensive, functionally oriented assessments is required. Ideally this should be an outpatient setting, but a home health or day care center could be utilized. This unit should not be set exclusively set in the nursing home. Clinical supervisors competent in functional evaluation are also needed.

VIII. Evaluation

Students' skills in functionally-oriented health assessment will be evaluated by: 1) ratings based on observations by a clinical supervisor or preceptor; and 2) written records from the assessments, problem lists, and management plans.
FUNCTIONALLY ORIENTED COMPREHENSIVE HEALTH ASSESSMENT

Source of information:

I. Geriatric History

cc: (Write patient's own words, and ask if there's been a change in function or abilities, when appropriate to problem.)

HPI: (Include questions about impairment of function related to symptoms.)

PMH: (Ask about any associated impairment of function after each surgery and hospitalization.)

Medical Problems:

Surgeries:

Hospitalizations: (Date, dx, hospital, if known)

Allergies: (Foods, meds, contact, seasonal)

Meds: (Include OTC's, vitamins and Rx drugs with names, dose, reason taking)
Habits: (Now or in past)

Smoking hx (cigarettes, cigars, pipes):

Alcohol consumption:

Caffeine use:

Regular exercise:

Family Hx: (Less relevant in geriatric patients than in younger patients.)

Social History:

Life Work, jobs: (include years for each)

Year retired:

Marital status:

Children: (names, addresses, phone numbers if available)

R.O.S.:

General: (Include appetite, sleep pattern, and problems.)

Skin:

HEENT: (Include visual acuity and any impairments to functions - same questions with auditory function/acuity.)

Neck:

Breasts:

Heart:

Lungs:

GI:

M/Skel:
Neuro: (Include dizziness, unsteadiness, falls and history about each; also ask about memory changes, forgetfulness, wandering at night, disruptive behavior.)

GERIATRIC DEPRESSION SCALE (SHORT FORM)

CHOOSE THE BEST ANSWER FOR HOW YOU FELT OVER THE PAST WEEK

1. Are you basically satisfied with your life? ................. yes / no
2. Have you dropped many of your activities and interests? .... yes / no
3. Do you feel that your life is empty? ......................... yes / no
4. Do you often get bored? ..................................... yes / no
5. Are you in good spirits most of the time? ................... yes / no
6. Are you afraid that something bad is going to happen to you? yes / no
7. Do you feel happy most of the time? ......................... yes / no
8. Do you often feel helpless? ................................. yes / no
9. Do you prefer to stay at home rather than going out and doing new things? ........................................ yes / no
10. Do you feel you have more problems with memory than most? yes / no
11. Do you think it is wonderful to be alive now? ............. yes / no
12. Do you feel pretty worthless the way you are now? ........ yes / no
13. Do you feel full of energy? .................................... yes / no
14. Do you feel that your situation is hopeless? ............... yes / no
15. Do you think that most people are better off than you are? yes / no

The following answers count one point; Scores 4-5 indicate probable depression:

1. NO 6. YES 11. NO
2. YES 7. NO 12. YES
3. YES 8. YES 13. NO
4. YES 9. YES 14. YES
5. NO 10. YES 15. YES

37 35
GU: (Be sure to ask about sexual history. Include questions about incontinence, if (+), add "Incontinence Assessment," see below.)

If (-) for incontinence, continue on Page 8.

INCONTINENCE ASSESSMENT

(From: Kane et al, Essentials of Clinical Geriatrics, pages 345 - 347.)

I. Assessment of Acute Incontinence

If incontinence is of recent onset (within a few days) and/or associated with an acute illness, check for any of the following:

- Acute urinary tract infection
- Fecal impaction
- Acute confusion (delirium)*
- Immobility*
- Drug effects (i.e., excessive sedation, polyuria caused by diuretics, urinary retention, other autonomic effects)
- Metabolic abnormality with polyuria (i.e., hyperglycemia, hypercalcemia)

* Such that ability to get to a toilet (or toilet substitute) is impaired.

If incontinence persists despite management of any of these conditions and/or resolution of an acute illness, further assessment (as shown in Part II) should be pursued.

II. Assessment of Established Incontinence

1. Do you ever leak urine when you don't want to?
   - No, never
   - Yes

2. Do you ever have trouble getting to the toilet on time or have accidents getting your clothes or bed wet?
   - No, never
   - Yes

3. How long have you had a problem with urinary leakage?
   - Less than 1 week
   - 1 to 4 weeks
   - 1-3 months
   - 4 to 12 months
   - 1 to 5 years
   - Longer than 5 years
4. How often do you leak urine?
   ___ Less than once per week
   ___ More than once per week, but less than once per day
   ___ More than once per day
   ___ Continual leakage
   ___ Variable

5. Does the leakage occur
   ___ Mainly during the day
   ___ Mainly at night
   ___ Both night and day

6. When you leak urine, how much leaks?
   ___ Just a few drops
   ___ More than a few drops, but less than a cupful
   ___ More than a cupful
   ___ Variable
   ___ Unknown

7. Do any of the following cause you to leak urine?
   ___ Coughing
   ___ Laughing
   ___ Exercise or other forms of straining
   ___ Inability to get to the toilet on time

8. How often do you normally urinate?
   ___ Every 6-8 hours or less often
   ___ About every 3-5 hours
   ___ About every 1-2 hours
   ___ At least every hour or more often
   ___ Frequency varies
   ___ Unknown

9. Do you wake up at night to urinate?
   ___ Never or rarely
   ___ Yes, usually between one and three times
   ___ Yes, four or more times per night
   ___ Yes, but frequency varies

10. Once your bladder feels full, how long can you hold your urine?
    ___ As long as you want (several minutes at least)
    ___ Just a few minutes
    ___ Less than a minute or two
    ___ Cannot tell when bladder is full
11. Do you have any of the following when you urinate?

- Difficulty in getting the urine started
- Very slow stream or dribbling
- Discomfort or pain
- Burning
- Blood in the urine

12. Are you using any of the following to help with the urinary leakage?

- Bed or furniture pads
- Sanitary napkins
- Other types of pads in your underwear
- Special undergarments
- Medication
- Bedside commode
- Urinal
- Other (Describe):

13. Is the urinary leakage enough of a problem that you would like further evaluation and treatment?

- Yes
- No

14. Do you ever have uncontrolled loss of stool?

- No, never
- Yes

15. Relevant medical history

- Stroke
- Dementia
- Parkinson's disease
- Prior CNS trauma/surgery
- Other neurological disorder
- Diabetes
- Congestive heart failure
- Other (Specify:__)

16. Prior genitourinary history

- Multiple vaginal deliveries
- Cesarean section(s)
- Abdominal hysterectomy
- Bladder suspension
- TURP
- Suprapubic prostatectomy
- Urethral stricture/dilatation
- Bladder tumor
- Pelvic irradiation
- Recurrent urinary tract infections
17. Medications

Diuretic

Antihypertensive

Psychotropic

Other drugs that affect the autonomic nervous system

B. Physical Examination for Incontinence Work-up

1. Mental status

____ Normal
____ Mild/moderate cognitive impairment
____ Severe cognitive impairment (unaware of toileting needs)

2. Mobility

____ Ambulates independently with adequate speed
____ Ambulates independently, but slowly (so that ability to get to a toilet is impaired)
____ Not independently ambulatory, but able to transfer to toilet independently
____ Chair- or bed-bound, but able to use urinal or bedpan independently
____ Dependent on others for toileting

3. Abdominal examination

____ Bladder enlarged and palpable
____ Bladder not palpable

4. Neurological examination of lower extremities

____ Normal
____ Evidence of upper motor neuron lesion
____ Evidence of lower motor neuron lesion
____ Peripheral neuropathy

5. Rectal examination

____ Decreased rectal sphincter tone
____ Decreased perianal sensation
____ Absent bulbocavernosus reflex
____ Peripheral neuropathy
6. External genitalia
   - Skin irritation
   - Diminished sensation
   - Abnormal (Description: ________________)

7. Vaginal examination
   - Atrophic vaginitis
   - Mild prolapse
   - Moderate/severe prolapse
   - Rectocele
   - Adnexal or uterine mass
**Functional Status:**

(From: Kane et al, *Essentials of Clinical Geriatrics*, page 325, #9.)

<table>
<thead>
<tr>
<th>Fully</th>
<th>Uses</th>
<th>Needs Some</th>
<th>Who</th>
<th>Totally</th>
<th>Dependent</th>
</tr>
</thead>
</table>

**ADL's (Activities of Daily Living)**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Bathing</th>
<th>Dressing</th>
<th>Going to Toilet</th>
<th>Transfer</th>
<th>Eating</th>
<th>Ambulation</th>
<th>Grooming</th>
<th>Continence</th>
</tr>
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</tbody>
</table>

**Bladder**
- Yes
- No

**Bowel**
- Yes
- No

**IADL's (Instrumental Activities of Daily Living)**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Writing</th>
<th>Reading</th>
<th>Laundry</th>
<th>Shopping</th>
<th>Using telephone</th>
<th>Managing money</th>
<th>Preparing meals</th>
<th>Housekeeping</th>
</tr>
</thead>
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</tbody>
</table>

**Social History**

(From: Kane et al, *Essentials of Clinical Geriatrics*, pages 331 and 332.)

**SOCIAL ASSESSMENT**

1. How often in past week did patient leave the house (other than this visit)?
   - At least daily
   - Several times
   - Once
   - Never

2. What floor does patient live on? __________

3. Is there an elevator? Yes ______ No ______
4. Does patient have a telephone?
   Yes____  No____  Telephone number: (___) ______ - ________
   If not, is there easy access to a telephone? Yes____  No____

5. Does patient live alone? Yes____  No____
   If no, who lives with patient?
   Name ___________________________ Relationship ______________
   1. _________________________________________________________
   2. _________________________________________________________
   3. _________________________________________________________

6. How often do visitors come to patient's house?
   Daily____  Weekly____  Less often____  Never____

7. Whom would patient call in an emergency (nonprofessional)?
   __________________________________________________________

8. Is patient's care covered by
   Medicaid____
   Supplemental private insurance (beyond Medicare)____

9. Does the patient receive
   Social Security
   Supplemental Security income (SSI) ______
   Private pension ______
   Other income ______

10. Does income permit purchase of needed
    Food ______
    Clothing ______
    Housing ______
    Heating ______
    Transportation ______
    Drugs ______
11. What did patient eat yesterday?

<table>
<thead>
<tr>
<th>Breakfast</th>
<th>Lunch</th>
<th>Dinner</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
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</tr>
</tbody>
</table>

12. Does patient receive services from any social agency?

Yes____ No____

Name of agency________________________________________
II. Physical Examination

Date of last examination: ____________________________

Vital Signs:

Weight today: ______

Weight last exam: ______

Height:

BP (supine)  Left: ______  Right: ______

BP (sitting)  Left: ______  Right: ______

BP (standing)  Left: ______  Right: ______

Pulse (per minute) ______

Respirations (per minute) ______

General appearance: (Include observation of patient's neatness, grooming, gait and abilities to dress, undress and transfer.)

Skin:

Hair

Ears:

Acuity:

_____ Hear normal voice  _____ Uses hearing aid

_____ Impaired  _____ Cerumen present

Eyes:

Vision:

Able to read newsprint  _____ Right eye

_____ with corrective lenses  _____ Left eye

_____ without corrective lenses

* = Abbreviated form of physical exam
Ophthalmoscopic (Include lens):

* Fundi:

Nose/Throat:

* Mouth:

Dentures:

_____ None _____ Good fit _____ Poor fit _____ Sores present

Neck:

Breasts:

* Lungs:

* CV:

* Pulses:

Abd:

Pelvic/Male GU:

Rectal:

* M/Skel: (POM, inspection)

  Back:

  Extremities:

* Neuro:

  I. Mental status (Do short portable questionnaire)

  II. Cranial nerves
III. Motor/Sensory/Observe gait:

IV. Equilibrium/Romberg Test

V. Deep tendon reflexes:

* Short Portable Mental Status Questionnaire
(From: Kane et al, Essentials of Clinical Geriatrics, pages 328 and 329.)

<table>
<thead>
<tr>
<th>Right</th>
<th>Wrong</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>What is the date today (month/day/year)?</td>
</tr>
<tr>
<td></td>
<td>What day of the week is it?</td>
</tr>
<tr>
<td></td>
<td>What is the name of this place?</td>
</tr>
<tr>
<td></td>
<td>What is your telephone number? (If no telephone, what is your street address?)</td>
</tr>
<tr>
<td></td>
<td>How old are you?</td>
</tr>
<tr>
<td></td>
<td>When were you born (month/day/year)?</td>
</tr>
<tr>
<td></td>
<td>Who is the current president of the United States?</td>
</tr>
<tr>
<td></td>
<td>Who was the president just before him?</td>
</tr>
<tr>
<td></td>
<td>What was your mother's maiden name?</td>
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<td></td>
<td>Subtract 3 from 20 and keep subtracting each new number you get, all the way down.</td>
</tr>
</tbody>
</table>

Number of errors: ____

0-2 errors = intact
3-4 errors = mild intellectual impairment
5-7 errors = moderate intellectual impairment
8-10 errors = severe intellectual impairment
TABLE 2. MINI-MENTAL STATE EXAMINATION

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Scoring</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Orientation (Maximum score 10)</td>
<td>Ask “What is today's date?” Then ask specifically for parts omitted; eg. “Can you also tell me what season it is?”</td>
<td></td>
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<tr>
<td></td>
<td>Ask “Can you tell me the name of this hospital?”</td>
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<tr>
<td></td>
<td>“What floor are we on?”</td>
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<td></td>
<td>“What town (or city) are we in?”</td>
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</tr>
<tr>
<td></td>
<td>“What county are we in?”</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>“What state are we in?”</td>
<td></td>
<td></td>
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<tr>
<td>II. Registration (Maximum score 3)</td>
<td>Ask the subject if you may test his/her memory. Then say “ball,” “flag,” “tree” clearly and slowly, about one second for each. After you have said all 3 words, ask subject to repeat them. This first repetition determines the score (0–3) but keep saying them (up to 6 trials) until the subject can repeat all 3 words. If (s)he does not eventually learn all three, recall cannot be meaningfully tested.</td>
<td></td>
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<tr>
<td>III. Attention and calculation (Maximum score 5)</td>
<td>Ask the subject to begin at 100 and count backward by 7. Stop at 5 subtractions (93, 86, 79, 72, 65) to score one point for each correct number.</td>
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<tr>
<td></td>
<td>If the subject cannot or will not perform this task, ask him/her to spell the word “world” backwards (D, L, R, O, W). The score is one point for each correctly placed letter, eg, DLROW = 5, DOLORW = 3. Record how the subject spelled “world” backwards.</td>
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<tr>
<td>IV. Recall (Maximum score 3)</td>
<td>Ask the subject to recall the three words you previously asked him/her to remember (learned in Registration).</td>
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<tr>
<td>V. Language (Maximum score 9)</td>
<td>Naming: Show the subject a wrist watch and ask “What is this?” Repeat for pencil. Score one point for each item named correctly.</td>
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<td></td>
<td>Repetition: Ask the subject to repeat, “No ifs, ands, or buts.” Score one point for correct repetition.</td>
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<tr>
<td></td>
<td>3-Stage Command: Give the subject a piece of blank paper and say, “Take the paper in your right hand, fold it in half and put it on the floor.” Score one point for each action performed correctly.</td>
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<tr>
<td></td>
<td>Reading: On a blank piece of paper, print the sentence “Close your eyes.” in letters large enough for the subject to see clearly. Ask subject to read and do what it says. Score correct only if (s)he actually closes his/her eyes</td>
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<tr>
<td></td>
<td>Writing: Give the subject a blank piece of paper and ask him/her to write a sentence. It is to be written spontaneously. It must contain a subject and verb and make sense. Correct grammar and punctuation are not necessary</td>
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<tr>
<td></td>
<td>Copying: On a clean piece of paper, draw intersecting pentagons, each side about 1 inch, and ask subject to copy it exactly as it is. All 10 angles must be present and two must intersect to score 1 point. Tremor and rotation are ignored.</td>
<td></td>
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<tr>
<td></td>
<td>Score: Add number of correct responses. In section III include items 14–18 or item 19, not both. (Maximum total score 30)</td>
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<tr>
<td>Rate subject's level of consciousness: (a) coma, (b) stupor, (c) drowsy, (d) alert</td>
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</table>


49
(If dementia is suspected, do Dementia Assessment, below)

**Dementia Assessment**

(From Kane et al, *Essentials of Clinical Geriatrics*, page 339.)

**A. History** (By whom: ________________________)

1. **Active medical conditions**
   - ________________________________
   - ________________________________
   - ________________________________

2. **Medications**
   - ________________________________
   - ________________________________
   - ________________________________

3. **History of**
   - Hypertension
   - Stroke
   - Transient ischemic attack
   - Depression
   - Other psychiatric disorder

4. **Current symptoms**
   - Memory loss
   - Forgets recent events
   - Forgets things just said
   - Forgets name of people
   - Forgets words
   - Gets lost
   - Asks questions or tells stories repeatedly
   - Confused about date or place
   - Can't do simple calculations
   - Can't understand what is read or said
   - Impairment of other cognitive functions
   - Anxiety/agitation
   - Paranoia
   - Delusions/hallucination
   - Wandering
   - Disruptive behavior
   - Incontinence

5. **Onset of symptoms**
   - Recent (days to few weeks)
   - Longer duration (months)
   - Uncertain
6. Progression of symptoms

- Rapid
- Gradual
- Stepwise (irregular, stuttering deteriorations)
- Uncertain

7. Activities of daily living (ADL)

Does the impairment of cognitive function interfere with:
Instrumental ADL?  ____Yes  ____No
If yes, which ones?  ____________________________
Basic ADL?  ____Yes  ____No
If yes, which ones?  ____________________________
### Problem List: Current Major and Chronic Problems

<table>
<thead>
<tr>
<th>Problem Number or Letter</th>
<th>Date of Recognition</th>
<th>Description</th>
<th>ICDA Code</th>
<th>Date Resolved</th>
<th>Flow Chart</th>
</tr>
</thead>
<tbody>
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### Problem List: Inactive Major or Chronic Problems (Including Major Surgery)

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**53  50**
III. ASSESSMENT

IV. PLAN (Write a separate "plan" for each assessment above using corresponding numerals in each plan.)
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

CURRICULUM UNIT THREE

MANAGEMENT OF COMMON HEALTH PROBLEMS IN NON-INSTITUTIONALIZED ELDERS

I. Goal

Skills to assess, manage, and coordinate the care of common acute and chronic conditions among non-institutionalized elders are introduced in this unit. (Note: The area of dementia is included in Unit Five)

II. Learner Characteristics

Students are in physician assistant training programs taking a clerkship in geriatrics. Prior training in clinical primary care, and some didactic training in geriatrics/gerontology are assumed.

III. Learning Objectives

A. After completion, the student should be able to do the following, under the supervision of a physician:

1. Diagnose and treat/manage common acute and chronic medical problems affecting elders (see problems listed below in IV.B) with special attention to the following common situations:

   a) Multiple pathologies
   
   b) Iatrogenic conditions, especially in relation to medications
   
   c) Atypical and non-specific presentation of disease

2. Maintain geriatric resource file. Utilize consultations and make referrals to clinical specialists, home health agencies, rehabilitation specialists, hospice support groups, senior centers, daycare centers, and other community agencies when needed to maximize function of elder patient.

3. Work with other health care providers as team or health care member in giving geriatric care in various settings, including outpatient, inpatient, home-health, geriatric assessment, rehabilitation, and skilled nursing facilities. Coordinate care with the following health care professionals: physician specialist, social worker, nurse, physical therapist, occupational therapist, nutritionist, podiatrist, psychologist/psychiatrist, dentist, pharmacist, religious counselor.

4. Assist with admission and discharge from acute care hospitals: perform preoperative evaluation and postoperative
follow-up as needed.

B. Students should exhibit the following attributes:

1. Appreciation of the role of other interdisciplinary team members in providing effective health care for older adults.

2. Concern for the constant danger of iatrogenesis from medical treatments of elders' conditions.

IV. Subject Content

A. Review of basic clinical principles for geriatric care.

1. Frequency of chronic conditions

2. Common atypical or non-specific presentation of disease, especially frequency of confusion as presenting symptom for variety of pathologies

3. Frequency of multiple coexisting conditions

4. Danger of iatrogenic conditions, especially as a result of medications

5. Need for coordinated multidisciplinary management of chronic illness

B. Techniques of assessment, management, and coordination of care for common geriatric conditions, such as the following:

1. Chronic conditions
   a) Osteoarthritis
   b) Hypertension
   c) Diabetes
   d) Congestive heart failure and other cardiac disease
   e) Osteoporosis
   f) Vision and hearing disorders
   g) Depression
   j) Incontinence

2. Acute Conditions
   a) Infections (e.g. urinary tract)
   b) Accidents/Falls (in the absence of the need for surgery)
   c) Pneumonia
C. Community resources for support of elder and family.

V. Pre-Assessment

Before the clerkship, students will be given a short written inventory of their familiarity with some of the information to be presented during the clerkship. Included will be some information on management of common, chronic and acute conditions among elders.

VI. Learning Activities

A. Reading assignments


B. Outpatient Care

1. Interview elders with specific complaints, take focused history, and perform problem-oriented physical exams. Use consultation or referral, as needed. Recommend management plan to supervisor and record SOAP notes for each, including both functional and medical problems.

2. Order lab tests and/or arrange for additional evaluations as needed for suspected common diagnoses (e.g. urinary tract infection, diabetes mellitus, anemia, digoxin toxicity.)

3. Attend or conduct follow-up patient encounter for chronic conditions such as:
   a) Osteoarthritis
   b) Hypertension
   c) Type II diabetes mellitus (NIDDM)
   d) Chronic obstructive pulmonary disease
   e) Angina pectoris

4. Record: Change in functional and medical parameters since last visit; evaluation of medication regimen; and any recommended changes in treatment.

C. Multidisciplinary and Community Supports
1. Attend (and participate in as a member, if possible) meeting of multidisciplinary team involved in health care of elders. Record observations and reactions to team functioning. (If not available, assist physician or other professional in developing multidisciplinary team, if possible.)

2. Develop list of community resources for health care support for elders, including Area Agency on Aging, resources for information and referral, senior centers, nutrition sites, transportation resources, and housing resources as well as specific health care services and support groups.

3. Visit community agencies serving elders. Interview a staff member on services provided and an elder client on her perception of services. Record information from interviews and reactions to experience.

D. Inpatient Care

1. Make rounds on older patient hospitalized for one of the following conditions:
   a) Surgery (e.g. hip replacement, transurethral resection for benign prostatic hypertrophy).
   b) Acute episode of a chronic condition (e.g. heart disease, COPD)
   c) Acute injury or illness (e.g. hip fracture, stroke, pneumonia)

Consult with discharge planner on post-hospital plans. Interview patient while in the hospital on reactions to being in hospital and plans after discharge. Note any evidence of change in mental status. Visit patient after discharge. Record notes on each visit.

VII. Support Services

The most important clinical setting needed to accomplish this unit is a good outpatient primary care practice. It could be in any of the following: community geriatric clinic; clinic in retirement housing; or a family practice, general medical, or health maintenance organization with a high proportion of older patients. An outpatient or inpatient geriatric evaluation would be desirable for the team learning experience. If not available, other multidisciplinary teams could be utilized. Older patients in a hospital setting can be accessed through: geriatric ward, geriatric consultation service, or older patients hospitalized for surgery or acute episodes. In all settings, but especially in the outpatient setting, a clinician skilled in geriatric care willing to teach a PA student is essential and should be designated as site supervisor or preceptor.
VIII.  Evaluation

A.  Competency skills ratings

1. Habitual or observed performance rating, to be completed by:
   a) Site supervisor/preceptor
   b) Student

2. Rating by patient(s) can be included when appropriate

3. Observation of skills by geriatric clerkship coordinator

B. SOAP notes

C. Record of encounters

D. Observation and reaction to multidisciplinary team meeting

E. List of community resources

F. Record of visit and interviews at community agency

G. Notes from hospital and follow-up visit
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

CURRICULUM UNIT FOUR

HEALTH PROMOTION/DISEASE PREVENTION

I. Goal

This unit introduces the student to the basic skills needed to perform the major functions involved in: 1) primary disease prevention for elders; 2) screening for early detection of asymptomatic disease; 3) health education and counseling for behavioral change among elders to decrease their risk of disease and functional disability; 4) maintenance of elders' highest level of function possible in the presence of chronic disease through clinical procedure and education of self-management strategies.

II. Learner Characteristics

Students are in physician assistant training programs taking a clerkship in geriatrics. Prior training in clinical primary care, and some didactic training in geriatrics/gerontology are assumed.

III. Learning Objectives

After completion, students should be able to demonstrate the following skills in health promotion/disease prevention:

A. List, monitor, and administer recommended immunizations for people 65 and over.

B. Give individual education to elders and their families for the purpose of health promotion, health maintenance, and disease prevention. Give talks for elders, staff, and/or families at senior centers, nutrition sites, senior clubs, retirement complexes or support groups, on health education for elders. Important areas for elders include those listed below.

1. Nutrition: especially in the areas of 1) intake of adequate nutrients; 2) calcium levels needed for prevention of osteoporosis; 3) control of saturated fats to decrease risk of heart disease, stroke, and multi-infarct dementia.

2. Exercise: weight-bearing to lower the risk of osteoporosis; aerobics to reduce risk of cardiovascular disease and diabetes; joint flexibility to reduce arthritis disability, tension release and relaxation for sleep disorders and stress-related disability; exercises to maintain or increase strength, range-of-motion, balance, and coordination for fall prevention; exercises for post-stroke, post-fracture, and post-lavpetalization rehabilitation to reduce complication of immobility.
3. Use of medications: keeping track of proper ingestion of prescription or over-the-counter drugs; keeping the health provider informed of adverse reactions; informing any new health provider of all the drugs one is currently using; informing the patient of dangers of trading drugs; uncovering overreliance on drugs such as tranquilizers or sleeping pills; recognizing signs of and dangers of iatrogenic complications, especially confusion.

4. Temperature regulation: danger and signs of hypothermia and hyperthermia; techniques of prevention.

5. Breast cancer: techniques of early detection

6. Accident and fall prevention: seat belts; environmental safety; balance and gait exercises


8. Risks of smoking and alcohol abuse.

9. Self-management techniques for chronic conditions (e.g. arthritis, diabetes): materials and classes available.


IV. Subject Content

A. Primary prevention strategies
   1. Immunizations appropriate for elders
   2. Other direct interventions to reduce risk of disease or disability

B. Screening and early detection of asymptomatic diseases and decreased function
   1. Recommended guidelines for screening for elders
   2. Techniques of major types of screening
   3. Sources of screening commonly available through community resources

C. Health education and counseling
   1. For disease and disability prevention
      a) Major health-promoting behaviors recommended for elders
      b) Sources of health education material
      c) Community resources commonly available to promote healthy behaviors for seniors
Techniques of individual, family, and group education

2. For maintenance of maximum function for elders with chronic diseases
   a) Self-management strategies for major chronic diseases affecting elders
   b) Sources of self-management education
      1) Materials
      2) Community classes

D. Clinical procedures commonly used for health maintenance with elders, especially those with decreased mobility.

VI. Pre-Assessment

Before the clerkship, students will be given a short written inventory of their familiarity with some of the information to be presented during the clerkship. Included will be some information on health promotion/disease prevention for elders.

V. Learning Activities

A. Reading assignments


B. Read guidelines for immunization for elders and give immunization to an elder, if appropriate.

C. Perform routine health screening for an elder in the following areas:

1. Blood pressure, in two positions
2. Colorectal cancer
3. Visual acuity and glaucoma
4. Hearing acuity
5. Mental status
6. Cervical/uterine cancer
7. Infections
8. Diabetes
D. Health education

1. Locate written health education materials especially for elders on topics listed below.

2. Prepare and give a health education talk to a group of seniors on one of the topics listed below.

3. Give individual health education consultation or counseling to elders with or without family members present, on topic listed below. (Use referral to community resources where appropriate and available.)
   
   a) Nutrition  
   
   b) Exercise  
   
   c) Risks of smoking  
   
   d) Risk of alcohol abuse  
   
   e) Fall and accident prevention  
   
   f) Breast self-examination  
   
   g) Use of medications: signs and dangers of complications from medications  
   
   h) Temperature regulation  
   
   i) Oral Hygiene  
   
   j) Self-management strategies for chronic diseases  
   
   k) Health insurance  
   
   l) Prevention of complications of immobility: contractures, pressure sores, osteoporosis, pneumonia

4. Observe one exercise class for seniors and one meal site program. Interview participants, record observations, and feelings.

E. Perform health maintenance functions for an elder such as:

   1. Removal of cerumen plug  
   
   2. Foot care (nail, corn, and callus)

VII. Support Services

Outpatient clinical settings such as those described in Unit Three will be needed to accomplish this unit. In addition, a senior center health promotion program will be needed for the group health education activity.
VIII. Evaluation

A. A multiple-choice written evaluation for specific cognitive assessment.

B. Students' records of patient encounters.

C. Notes and reports from health education group presentation. Health education materials collected.

D. Record of observation and interviews of exercise class and nutrition site.
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

CURRICULUM UNIT FIVE

FAMILY AND ELDER COUNSELING

I. Goal

The goals of this unit are to: 1) sensitize students to the needs of elders' family members; 2) increase students' skills in assisting elders and their family in decision-making; 3) increase students knowledge of resources in the community available for assisting family caregivers of elders with disabilities, and 4) increase students' knowledge of assessment and management issues for an elder with suspected dementia.

II. Learner Characteristics

Students are in physician assistant training programs taking a clerkship in geriatrics. Prior training in clinical primary care, and some didactic training in geriatrics/gerontology are assumed.

III. Learning Objectives

After completion, students should be able to:

A. Counsel with elders and their family members.

1. Listen empathetically and provide information on options for dealing with common stresses and problems encountered by older adults with special emphasis on support for dementia patients and their families.

2. Give consultation in decision-making and health maintenance issues including the following:

   a) Housing resources and relocation decisions
   b) Community resources for health and social support including respite care for families and family support groups
   c) Admission and discharge planning to hospitals, rehabilitation units, intermediate care and skilled nursing facilities
   d) Medi-Care/Medicaid
   e) Hospice care for dying patients
   f) Special assessment and management strategies for elders with dementia.
3. Support family members and provide information on options for treatment or assistance in cases of:
   a) Family conflict regarding care of an elder
   b) Ethical treatment decisions when elders cannot make decisions for themselves (Keep on file elders' latest instructions in relation to life sustaining or code care)
   c) Bereavement, especially in relation to bereavement support groups

4. Give support, counsel, and assistance to elders in cases of elder abuse. Report to legal agency. Refer to protective services.

B. Respect the role of the family caregivers and other family members of older patients, support them as the major source of health care and recognize their health care and respite needs.

C. Respect sexual needs and behavior among elders

D. Show commitment to cost containment strategies consistent with effective and humane geriatric care.

IV. Subject Content

A. Major issues confronting elders and their family caregivers

1. Problems associated with dementing illnesses
   a) Helping elders and their families obtain comprehensive evaluations, realistic prognoses, and appropriate medical management
   b) Helping family caregivers obtain support services
      1) Respite care
      2) Support groups
      3) Assistance with legal and financial decisions
      4) Planning for increased level of care, if needed

2. Assistance to elders and families in adapting to elders' current or predicted dependency
   a) Helping elders maintain their autonomy as long as possible
   b) Dealing with stress of caregivers and potential for elder abuse
c) Knowing major sources of in-home support for elders and families

V. Pre-Assessment

Before the clerkship, students will be given a short written inventory of their familiarity with some of the information to be presented during the clerkship. Included will be some information on family issues and dementia.

VI. Learning Activities

A. Reading Assignments


B. Seminar Session

1. View videotape on dementia

2. Discuss family issues (including elders with no family support) in care of elders with social worker from home health agency or other settings where he/she works with families of elders (if available)

C. Attend or conduct session with elder and/or family member concerned about elder's memory problem

D. Develop specific referral resources for:

2. Day care for respite for family caregiver of dementia patient or frail elder. Visit Day Care Center; interview staff member, participant, and family member of dementia patient, record observations and emotional reactions.

3. Family support group for family with dementia patients. Attend support group meeting. Record observations and feelings.

4. Elder abuse.

5. Frail elder without family support.

VII. Support Services

Clinical resources needed to accomplish this unit include:

A. Outpatient services including dependent elders and their family members/caregivers

B. Social worker or other counselor of family caregivers

C. Day care or day health care center

D. Family support group community agency serving dependent elder (e.g. Alzheimer's Disease and Related Disorders Association)

E. Information and referral services for older adults

VIII. Evaluation

A. Cognitive assessment of the knowledge base will be included in the objective test given (before and) after the clerkship

B. List of local referral sources for specific services

C. Journal records of observations and feelings from the following experiences:

1. Day care

2. Family support group
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

UNIT SIX

LONG TERM CARE

I. Goal

The purpose of this unit is to introduce the basic clinical skills and understanding needed for effective clinical management of older long-term care patients, including those still residing at home and in residential care as well as those in nursing homes.

II. Learner Characteristics

Students are in physician assistant training programs taking a clerkship in geriatrics. Prior training in clinical primary care, and some didactic training in geriatrics/gerontology are assumed.

III. Learning Objectives

After completion, students should be able to:

A. Recognize characteristics of elders that make them appropriate candidates for different types of long-term care settings, assuming commitment to the model of the least restrictive setting possible to maximize function.

B. Perform pre-admission assessments in residential settings.

C. Describe the array of services available through home health agencies.

D. Help reduce complications of immobility for patients with mobility impairments by
   1. Recommending and supporting utilization of programs by physical therapists, activity coordinators, or care-givers to maintain activity levels at highest possible functioning.
   2. Preventing and monitoring signs of contractures, atrophy, and pressure sores.
   3. Preventing and monitoring signs of constipation and dehydration.
4. Preventing and monitoring signs of pneumonia

E. Support staff or caregivers' efforts and programs for:

1. Decreasing depression by increasing elder's autonomy and maximum independence possible
2. Providing sensory, intellectual, and social stimulation
3. Encouraging life review or reminiscence
4. Establishing support groups for family members, including residents of nursing homes
5. Doing bowel and bladder training
6. Helping elders orient to time and place
7. Reducing negative effects of patients' disruptive behavior and wandering in a humane way.

F. Demonstrate basic techniques for:

1. Transferring patients from bed to chair and vice-versa
2. Providing bowel and bladder training to incontinent patients
3. Feeding patients who have chewing or swallowing impairments

G. Utilize the following procedures when necessary:

1. Debridement of pressure sores
2. Insertion of
   a) Urinary catheters
   b) Nasogastric tubes
3. Treatment for
   a) Pneumonia
   b) Urinary tract infection, especially in patients with urinary catheters.

H. Monitor use and effects of medications, especially those prescribed on a PRN basis.
I. Recognize administrative problems and special stresses common among staff members working in nursing home settings.

J. Support the value of death with dignity, as expressed through pain-free conscious, terminal illness, including clear communication with intimates and minimal technological intervention.

K. Describe the basic clinical procedures used in hospice care.

L. Support the use of multidisciplinary health teams in geriatric long term care.

M. Support the value of autonomy and independence of older adults in long term care, with special sensitivity to the danger of "infantilization" of older patients, and the need for dignified and respectful treatment.

N. Recognize and exhibit sensitivity to major ethical decision-making issues that arise with severely-impaired elders; describe useful guidelines to assist clinicians in those situations.

IV. Subject Content

A. Continuum of Long Term Care (LTC) Services

In each of the following types of care: services and support available, appropriate characteristics of patients, financial implications, social, psychological, and medical problems, and staff roles and problems.

1. Home Health Services

2. Residential Care (or Board and Care)

3. Nursing Home: Intermediate and Skilled

4. Hospice

B. Special clinical problems in LTC: their prevention and treatment
1. Potential complications of immobility
   a) Contractures and Atrophy
   b) Skin Breakdown
   c) Pneumonia
   d) Depression

2. Gastric-intestinal and genito-urinary problems
   a) Hydration and nutrition
   b) Eating, chewing, and swallowing disabilities
   c) Faecal impaction/constipation
   d) Incontinence: bowel and bladder
      1) Urinary catheter care and potential problems
      2) Urinary tract infections.

C. Critical issues in prescribing LTC

D. Ethical decision-making in care of severely disabled patients.

E. Philosophy and clinical protocols used in hospice approach to dying patients.

V. Pre-Assessment

Before the clerkship, students will be given a short written inventory of their familiarity with some of the information to be presented during the clerkship. Included will be some information on long-term care issues.

VI. Learning Experiences

A. Reading assignments:
      a. Chapter 22: Lynn DJ. Deciding to forego life-sustaining therapy
b. Chapter 23: Lynn DJ. Care near the end of life

c. Chapter 28: Kayser-Jones JS. Physicians and the care of nursing home residents

B. Go on one home visit with a staff member in a home health agency. Record pertinent data on health history, home and social environment, occupational therapy adaptations being utilized, current health status, treatments, type of caregiver being utilized, caregiver strain, and emotional reaction to visit.

C. For potential residential care home resident, assist with a functionally-oriented preadmission history and physical assessment. Record findings.

D. Observe a physical therapy session with a patient in rehabilitation unit, day health care center, or nursing home; record instructions for patient follow-up; assist patient with prescribed activities at a later time.

E. Attend a meeting of a Hospice team. Record observations and emotional reactions.

F. In a skilled or intermediate-level nursing unit, complete the following activities:

1. Make rounds with primary care practitioner or nurse to observe signs of the following conditions. Discuss and observe methods of prevention.
   a) Contracture
   b) Pressure sores
   c) Constipation
   d) Dehydration
   e) Pneumonia
   f) Foley Catheter complications
   g) Over-medication

2. Assist with the feeding of a resident who needs special attention due to impairment in chewing and/or swallowing.
3. Observe and assist with at least one of the following:
   a) Debridement of pressure sore
   b) Insertion of urinary catheter
   c) Insertion of nasogastric tube

4. Attend at least three of the following activities:
   a) Residents' council meeting
   b) Class on current events, or reality orientation (or activity with verbal interaction)
   c) Exercise program
   d) Bowel and bladder training session
   e) Bathing procedure
   f) In-service program for nursing aides

Record observations and feelings.

5. Receive training in transfer techniques from nursing staff or physical therapist and assist with transfer of patient from bed to chair and vice-versa.

6. Make rounds on patients and observe routines at least once on each of the three daily shifts. Record differences observed.

7. Interview skilled nursing patient about her life, prior living arrangement, family, length of time in nursing home, and adjustment to it. Record significant parts. Describe her room and its furnishings, types of interaction you observe her having with visitors, other residents, or staff. Go with her to her favorite activity listed on the facility's activity schedule.

8. Perform comprehensive functionally-oriented history and physical exam on nursing home patient. Develop updated problem list and recommended management plan. Prepare appropriate chart records of findings.
VII. Support Services

A. Ideally, all the following types of clinical training settings should be available to accomplish this clerkship unit. (In the case of non-availability of some settings, the minimum needed are marked with asterisks(*)). In each setting, a knowledgeable clinician willing to teach a PA student should be designated as clinical site supervisor or preceptor.

Long Term Care Settings

Community-Based

*Home Health Services
  Day Health or Day Care Center
  Hospice

Institution-Based

Hospital-Based Home Care
Rehabilitation Unit
*Residential Care Home
Nursing Home:
  Intermediate Care Facility
  *Skilled Nursing Facility

B. A Geriatric Clerkship Coordinator should be available from the PA program faculty to assist with scheduling, seminar sessions, evaluation, and problem-solving.

VIII. Evaluation

A. Competency Skills Ratings

1. Habitual performance ratings to be completed by:
   a) Site supervisor/preceptor
   b) Students

2. Evaluation by patients, when appropriate

B. Observation of basic skills by Geriatric Clerkship Coordinator

C. Chart record audit of FOHPE** activities

D. Journal records of interviews, and emotional reaction to experiences as indicated for following:

1. Home visit with home health agency

** FOHPE = Functionally-Oriented History and Physical Examination
2. Residential Care Pre-admission FORPFE**
3. Physical therapy observation and assistance
4. Attendance at nursing home activity programs
5. Rounds on three different shifts
6. Interview with nursing resident

E. Attitude Rating Forms to be completed by site Coordinator(s) and patient, when appropriate.

F. Written measures of knowledge. Comparison with pre-assessment scores.
Suggestions for Implementation
SUGGESTIONS FOR IMPLEMENTATION

General guidelines will be found in the pages that follow to assist PA Program Directors and faculty members in working through the process of establishing the most appropriate version of the Model Geriatric Clerkship for their own programs.

Suggested Criteria to Establish Clerkship

1. Commitment of the administration and faculty. Because an effective clinical experience in geriatrics may take more time and creativity to arrange than clerkships in more traditional medical services, it is important that deans, program directors, and faculty all realize its importance and be willing to support its development. This usually involves their appreciation of the potential role PA's can play in the care of this major segment of the population and the unique skills the care requires. (If some members of the faculty or administrative hierarchy need to be convinced, some suggestions for a rationale to use are found in the following section in the first step in the process of implementation.)

2. Reasonable expectation of the interest of students in selecting a geriatric clerkship, if it is to be offered as an elective. Because of the bias against management of chronic illness in medical education in general, students may need some enthusiastic role models in the faculty to appreciate the challenges and rewards that come in the complex care of elders. Most programs have found, however, that if a varied experience is offered, including ambulatory and long term care settings with positive, involved providers as preceptors, a portion of each class of students develops an interest in geriatrics.

3. Feasibility of including the four-week clerkship in the schedule.

4. Willingness of faculty to locate appropriate clinical settings and to assist the health care providers in implementing the learning experiences.
Steps in the Process of Implementation

The following are recommended steps in the process of implementing the model geriatric clerkship. Although the steps are in normal chronological order, in actuality they will probably overlap, and their relative timing will vary with the unique characteristics of each PA program. Descriptions of each step are included on the following pages.

1. Obtaining administrative support.
2. Adapting the model clerkship design to the individual clerkship structure of the PA program.
3. Implementing pre-clerkship geriatric curriculum.
4. Generating faculty support for the clerkship plans and obtaining appropriate institutional curriculum review.
5. Locating, selecting and negotiating with appropriate training sites.
6. Selecting clinic preceptors and providing faculty development as necessary.
7. Selecting or developing written and audio-visual teaching material and evaluation forms to be used in the clerkship.
8. Developing schedule of learning experiences.
9. Recruiting and scheduling individual students into clerkship.
10. Following clerkship students, evaluating their progress.
11. Evaluating clerkship, revising as needed.

It should be noted that in cases in which PA programs place students in clerkship locations considerable distance from the program and do not have the staff resources to develop the needed geriatric training sites and arrangements for students, it may require special student initiative to make the arrangements themselves. In those cases, a faculty member should be appointed to adapt the steps in the process as needed and give assistance and support to the students' efforts.
Description of the Steps in the Process of Implementation

1. Obtaining administrative support.

If key administrators in the PA program or the school need to be convinced of the need for clinical geriatric training, a strong case can be made for its importance by using some of the following points.


Although most people know that "America is graying", precise points that can be made are: older (65+) Americans have grown from 4% of the population in 1900 to over 12% in 1987 and are expected to comprise 20% or more by 2030; in actual numbers they are expected to double in the next 40 years; the fastest growing segment of the older population, the 85+ group, is expected to be four times its current size in 50 years, has the largest number of chronic illnesses, and needs the most intensive level of care; people 65+ account for a third of the country's total personal health care expenditures, are hospitalized twice as often as younger people, stay twice as long and use twice as many prescription drugs; utilization of physician services increases with age, and the number of physician visits by elders is expected to increase by 47% by the year 2000.

b. Government Initiatives in Geriatric Training.

The past few years have seen a dramatic increase in the mandated and optional programs in geriatric training for PA's, as well as other health care professionals, sponsored by various federal and state agencies. Currently, a geriatric component is required for eligibility for federal support for PA programs, and many other training initiatives offer supplementary funding for geriatric curriculum development.

c. Need for Balance in PA Curriculum.

Past emphases in training for care for other patient groups, such as maternal and child health, now need to be balanced with training for the growing older population.

d. New Roles for PAs in Geriatrics.

Three articles listed in the bibliography of PA's in Geriatrics in Appendix A contain good background information on the present and future role of PAs in health care for older adults. They are those by Romeis et al., Tideiksaas, and Yturri-Byrd and Glazer-Waldman.
In addition, the report Physician Assistants: Providing Geriatric Care by Schafft and Rolling listed in the Appendix A contains specific description of jobs PAs are currently filling in geriatric care as well as data from prior studies of needs for geriatric training. With the recent passage of Medicare legislation allowing reimbursement for PA's in some settings, even more opportunities for jobs for graduates in geriatric care are available. (An abstract of the relevant parts of the legislation is included in Appendix B.) One method of sensitizing potential employers to PA's skills, is to allow clerkship students to demonstrate their usefulness in settings such as geriatric outpatient care, home care, residential care, nursing homes, and research units.

II. Unique Approaches Needed for Geriatric Training.

The critical elements of the rationale for this argument are made in Sections 2 through 5 of the Introduction section of the manual.

2. Adapting the model clerkship design to the individual clerkship structure of the PA program.

After administrative support for the development of the geriatric clerkship has been received, a faculty member should be designated to coordinate the clerkship. Ideally, this should be someone with an educational or clinical background in geriatrics, but the most important qualities the coordinator should possess are an enthusiasm about geriatric care, a positive view of aging, and familiarity with the program's resources. If the coordinator would like to develop greater expertise in the field, special faculty development activities in geriatrics are frequently available through regional Geriatric Education Centers (GECs.) (See Appendix C for a listing of GECs.) Other sources might be: a Center on Aging in a university in the area; Continuing Medical Education conferences on geriatric topics, especially those sponsored by the American Geriatrics Society; summer short courses or workshops offered through gerontology centers or gerontology/geriatric organizations. Graduates of the Geriatric Education for PA Faculty (GEPAF) program at Stanford University (listed in Appendix D) or members of the Geriatric Interest Group in the Association of PA Programs (APAP) can also be helpful in orienting new members in the geriatric network to resources.
The first tasks of the coordinator in the process of implementation are to become familiar with the Model and draft a proposal for ways it could be adapted to the structure and resources of the program. For example, the length of the clerkship periods and the potential availability of clinical settings will influence the feasibility of using the learning experiences in each Curriculum Unit. In programs using the preceptor, as opposed to the clerkship, structure for clinical training, the coordinator will need to carve out special times, such as three days a week for six weeks to make the Model fit.

Based on experiences in field-testing the Model, it is strongly recommended that:

a. No less than four weeks be used for the geriatric clerkship; and

b. It not be combined with another clerkship such as internal medicine or family medicine.

3. Implementing pre-clerkship geriatric curriculum.

It is recommended that all students have a minimum of 20 hours of geriatric instruction before they begin their clerkships, so that the clinical training can build on a solid understanding of the important issues in health and illness among elders. Reading assignments are recommended using Kane, Ouslander, and Abrass, Essentials of Clinical Geriatrics as a textbook. (For a bibliography of geriatric textbooks and an article evaluating Kane and other possible textbooks, see Appendix E.) Another useful resource in planning a preclinical class in geriatrics is the Geriatric Curriculum Resource Guide by Yeo et al. developed for the Geriatric Education for PA Faculty Project at Stanford University. This collection of resources includes a model geriatric curriculum for PA programs and is available through the Division of Family and Community Medicine, Stanford University School of Medicine, Stanford, CA 94305, for $18. (See Appendix F for order blank.)

It is recommended that the geriatric coordinator encourage faculty members responsible for other courses in the curriculum to integrate material about aging wherever appropriate. The pharmacology curriculum, for example, needs to stress special adaptation of drug regimens for elders. It is frequently helpful to acquire some good reference material for faculty members to use in the integration of topics in their classes, such as a subscription to The Journal of the American Geriatric Society or purchase of some of the leading comprehensive texts listed in Appendix E (see especially, Cassel and Walsh).
1. In some cases, it might be appropriate to include all or part of the readings and seminar sessions in the Model in the preclinical rather than the clinical curriculum, especially if the personnel is not available to lead seminars for students during their clerkships.

4. Generating faculty support for the clerkship plans and obtaining appropriate institutional curriculum review.

It is important to share the plans for the new clerkship with other faculty members and receive their feedback periodically during the planning phase so that their support can be maintained. Other PA faculty to be involved with the geriatric clerkship should be identified so that they can become familiar with the clerkship model and can be prepared for roles they will play.

If approval for a new clerkship is required by an institutional or departmental curriculum committee, the appropriate review should be initiated well in advance of the target date of implementation so that any delay in the committee process would not interfere with plans to begin the clerkship.

5. Locating, selecting and negotiating with appropriate training sites.

Since the selection of the settings in which the learning experiences are to occur is the most crucial step in the process of the Model's implementation, it is extremely important to give adequate attention to this task. The following are recommended guidelines for that search and negotiation process.

a. There should be experiences for the clerkship students in all of the four major categories of settings: Health Promotion Resources (unless students have participated in screening and health education activities in community-based senior centers in their preclinical geriatric programs); Outpatient; Acute Care; and Long Term Care, in both community and institution-based settings. (See Table on page 88 for possible types of settings in the four major categories, in addition to the classroom for seminar activities.)

b. Locating potential settings can be a challenge for clerkship coordinators not familiar with the network of health care services for older adults, so listed below are some hints for identifying clinical resources. Terms identifying types of settings are also defined in the Glossary at the end of the Manual.
1) Notes on Using Veterans Administration (VA) Medical Centers and Area Health Education Centers (AHECs).

Reliance on VA facilities for clinical training sites in geriatrics has been very common because of their rich resources and history of cooperativeness. One caution should be expressed in this area, however. Because of the very small proportion of females among VA patients, training exclusively with that population does not prepare a student to work with most non-VA older patient groups who are predominantly female. Programs are advised, then, to take advantage of VA strengths in clinical geriatric programs available to them (e.g. Hospital Based Home Care, Geriatric Evaluation Units), but to supplement those experiences with more representative clinical sites for the students, especially in the area of outpatient and nursing home care. VAs with Geriatric Research Education and Clinical Centers (GRECCs) can be an especially valuable resource since they frequently have special educational and clinical programs in geriatrics for a variety of disciplines. (See Appendix G for listing of GRECCs).

Another resource that could be helpful to coordinators if it is available in the region is an Area Health Education Center (AHEC) with a special program in geriatrics as an educational priority for their region, it would be wise to explore the possibility of joint training if an AHEC exists in your area.

2) Health Promotion Resources.

It is very important for students to be exposed to healthy, independent elders in the course of their geriatric training, so that they will resist the tendency to assume that aging inevitably involves illness. Community-based multipurpose senior centers are an excellent resource in which to have students interact with a large number of active elders and participate in health promotion activities, such as screening and health education, with well elders. (It is not recommended that adult day care or day health centers for frail elders be used for this purpose.) Senior centers can be located through Senior Information and Referral (I&R) services, which are required for every area through the local Area Agency on Aging. (Telephone books frequently list the I&R service under: "Seniors" in the front of the government services section.) Meal site or nutrition programs are frequently in senior centers but can also be found in churches, lodge halls, or other non-profit facilities. They are frequently pleased to have students give a presentation on a health promotion topic since they need educational activities and typically have little or no budget to provide them.
SETTINGS FOR LEARNING EXPERIENCES

Key

Sr. Ctr. I. Health Promotion Resources
Options: Senior centers
        Meal sites
        Health screening programs
        Elder Day Care Center
        Family support programs

Clin. II. Outpatient Settings
Options: Community geriatric clinics
        Clinics in retirement housing
        Older patients in Family Practice, General Medicine,
        or Health Maintenance Organization
        Geriatric evaluation units
        Religious geriatric centers

Hosp. III. Acute Care Settings
Options: Geriatric ward
        Geriatric consult service
        Older patients hospitalized for surgery or acute episodes

LTC IV. Long Term Care Settings
LTC A Options: Community-Based
        Home Health Services
        Day health or Day care center
        Hospice

LTC B Institution-Based
        Hospital Based Home Care
        Rehabilitation unit
        Continuing Care Retirement Centers
        Intermediate Care Facility
        Skilled Nursing Facility

Sem. V. Seminar Series: Classroom
Since health promotion activities are frequently provided for family caregivers and frail elders through day care centers and family support programs, they are also included in this category, but they should be used in addition to, not instead of exposure to healthy elders. Senior I&R services can usually be helpful in identifying elder (or "adult" or "senior") day care or day health care centers and family support groups for caregivers. Support groups can be associated with the respite services of a day care center or organizations dealing with specific disabilities; for example, Alzheimer's Disease and Related Disorders (ADRDA) chapters frequently have caregiver support groups.

(3) **Outpatient Settings.**

Some communities have primary care clinics or general ambulatory care clinics have special units or special days designated for geriatrics. There are frequently outpatient clinics that operate on certain days in larger retirement housing facilities (not nursing homes) or continuing care retirement communities (CCRCs). (CCRCs provide multi levels of care, usually from independent living to skilled nursing care and may also be called "life care communities" or "continuum-of-care facilities"). Any of those options would likely to include clinicians with experience and interests in geriatrics.

If special geriatric outpatient settings cannot be located through health care networks or Senior I&R, it would be necessary to locate a primary care physician interested in geriatric medicine and who has a large number of older patients. Some suggestions would be asking one or more of the following sources for referrals to appropriate providers: the county medical society or local chapter of American Academy of Family Practice, local clinic or hospital administrators, nursing home administrators, Gray Panther or American Association of Retired Persons chapters, staff members at senior centers or the Area Agency on Aging. One would want to confirm the physician's interest and expertise in geriatrics by asking about membership in the Geriatric Society or similar professional activities. It should be noted that a certifying exam for competency in geriatrics will be given for both internists and family physicians with geriatric training and/or experience beginning in 1988; this will provide a helpful guide for locating potential preceptors.

Multidisciplinary Geriatric Evaluation Units (GEUs) are usually located in a VA or university-affiliated medical center.
(4) Acute Care Settings.  
If possible, locate a hospital with a geriatric consult service, in-patient GEU, or geriatric ward, since the staff in those units would probably have more relevant training.

(5) Long Term Care Settings.  
Home Health service experiences for PA students can sometimes be found with community based home care services (e.g., Visiting Nurses Associations), but if a physician or PA is not part of the team, the training may be more observational than experiential. One particularly valuable resource is a Hospital Based Home Care (HBHC) program with a physician on staff. There are available in some VA and other geriatrically-oriented hospitals. (See Appendix I for list of VA HBHCs.)

Day Health Care Centers (or sometimes Day Hospitals), combining care for very frail elders at risk of institutionalization by a multidisciplinary team with respite for caregivers, are found in an increasing number of urban areas. Hospice services are important sources of support to terminally ill elders and their families, especially those with cancer. Either of these may include a physician or mid-level practitioner on the staff and can usually be located through the Senior I&R service.

If there is an established "Teaching Nursing Home" affiliated with the university that has made a commitment to training health care students, it would be the best institutional long term care setting. If not, community-based nursing homes (skilled nursing or intermediate care facilities) can be cultivated. Large not-for-profit facilities, or proprietary chains with a commitment to training have been utilized successfully.

Rehabilitation Units are often affiliated with acute care hospitals and provide valuable training opportunities involving multidisciplinary teams.

A particularly positive experience has been reported by some programs in CCRCs with multiple levels of care where students can see nursing home residents in the context of a large number of healthier elders. Although residential care facilities do not usually provide nursing or medical care for their residents, physicians and mid-level practitioners are frequently involved in giving physical examinations for admission. The same level of care may go by a variety of names, such as "community care" or "board and care" or "personal care" and usually involves meals and some supervision and assistance with dressing or bathing. This type of care is frequently one of the levels of care given in CCRCs.
c. The final choice of the clinical training sites depends on a number of factors, including the receptiveness of the staff in the site, of course. The following guidelines are provided to help the coordinator evaluate potential sites in those cases in which there is more than one choice in the different categories of settings.

Choices should be made keeping in mind the traditional criteria used by PA programs for positive learning experiences including: adequate space for students; adequate time for supervision and teaching by clinical instructors; positive attitudes toward teaching; training and/or experience in clinical teaching by clinical instructors; sufficient opportunity for patient encounters; positive attitudes toward patients by clinicians; well-organized record-keeping practices; and ability of the clinical instructor to provide a supportive teaching relationship with the student, including an ability to communicate with, observe, and evaluate the student in an effective manner.

In addition to those criteria, ideal characteristics for the clinical sites for the Model Geriatric Clerkship include:

1. Ability to provide clinical role models with positive (non-ageist) attitudes toward older patients;

2. Clinical practitioners who have geriatric training or, at the least, considerable geriatric experience;

3. Utilization of a functional approach to geriatric health care;

4. Utilization of multidisciplinary health care for elders, preferably in a team setting;

5. Sufficient older patients with a majority female and a variety of ethnic/racial backgrounds;

6. If possible, inclusion of elders as participants in policy-making roles, such as members of an Advisory Board.

These criteria are listed on the checklist on the following page to help coordinators evaluate potential sites.
## Checklist for Assistance in Selection of Clinical Settings *

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<tr>
<th>Category</th>
<th>Criteria</th>
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<td>I. Health Promotion</td>
<td>Role Models w/Positive Attitudes</td>
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<td>Potential Settings</td>
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* Rate each criteria for each potential setting on a scale of 0 = Not present to 3 = Fulfills criteria well.
d. Negotiations with staff members or administrators in potential training sites may include those in which nurses are the traditional administrators (e.g. home health agencies or nursing homes). In those cases there may be a particular sensitivity to training PAs if they are viewed as potential competitors. It has been possible in some sites, however, to overcome an initial resistance by careful education of the nurses and other staff members about the role of PA's. In a nursing home, it is recommended that a preliminary meeting be held with the director of nursing, as well as the medical director and administrator, to assure their full understanding and cooperation with the use of the site for training PA students.

To help orient the staff of potential sites, handouts can be provided describing the PA program, the clinical background of prospective students, and ways in which PA graduates are being utilized especially in the field of geriatrics. (See articles listed in Appendix A for examples.)

In negotiating with the staff of potential sites, coordinators should be aware of the burden that training activities may place on potential preceptors and clinical supervisors. One recommendation tactic is to offer a "Quid Pro Quo" to the sites in return for training activities, such as geriatric reference materials or audiovisual equipment the program could buy for the site. The program might formally recognize those who supervise students, or designate the site as "an Official Clinical Geriatric Site" for the academic institution. Continuing education for the staff by the student or faculty could be offered, or the student could develop a resource list or other products needed by the site.

If other training programs in your university (e.g. nursing or medicine) utilize the same sites for geriatrics that you are developing, training schedules should be coordinated with the site personnel and with faculty in the other programs to minimize negative competition or burden for the sites.

When arrangements are finalized to use a clinical site for training students in the geriatric clerkship, the appropriate written documents should be completed. Programs handle these agreements in a variety of ways; they can be formal letters or affiliation agreements or formal contracts. They frequently contain specific information on liability coverage for the students who are seeing patients, which may be different in institutional training sites and private practice settings.
Faculty coordinators who are not familiar with the process of negotiating the affiliation agreements should be aware that it can take up to six months in some cases if several levels of approval or legal issues are involved.

6. Selecting clinic preceptors and providing faculty development as necessary.

A particularly important part of the site selection process is finding physician and/or PA preceptors who are interested in teaching students, who are familiar with the role and skills of PAs, and who are knowledgeable about geriatrics. It is important to assess the preceptors' formal medical training in geriatrics as well as their continuing education through geriatric conferences, journal reading, and membership in various geriatric organizations. For preceptors with a family medicine or internal medicine background but no specific geriatric training, offering them a copy of Essentials of Clinical Geriatrics by Kane, Ouslander, and Abrams is helpful. Also sending the geriatric curriculum outline and journal articles which will be required reading for students is a non-threatening way to augment the preceptors' geriatric knowledge. The same process can be used with other team members who are being asked to supervise training.

One particular problem that arises is in the area of teaching comprehensive functional assessments. Since the concept of a functionally oriented history and physical exam is relatively unique to geriatrics, potential preceptors without geriatric training are frequently not familiar with the skills and procedures involved. In those cases, it is particularly important that "staff development" be given to those who will be teaching Unit II of the clerkship curriculum. The materials for the seminar on functionally oriented comprehensive health assessments should be made available to the potential preceptor early in the planning stage.

7. Selecting or developing written and audio-visual teaching material and evaluation forms to be used in the clerkship.

Although it is not common in some programs to include reading assignments or audio-visual materials in a clerkship, they are included in the Model for use if it is deemed appropriate. Especially if students have not acquired a good basic text or reference in geriatrics in their preclinical training, it is extremely important that they have one available to them in their clerkship. Readings also serve the functions of supplementing the background of preceptors or faculty members when they may be new to the field of geriatrics.
It is recognized that the logistics of having students view videotapes during a clerkship may be difficult and may not be practical. Coordinators who would like to include the audiovisual learning experiences in the Model (or others of their choice) can obtain a guide, *Audiovisual Resources for Geriatric Education*, with information on sources and prices through the Pacific Geriatric Education Center at the University of Southern California listed in Appendix C. No specific title is given for the videotape on functionally oriented comprehensive health assessment in Unit II because none could be located that was deemed appropriate. Plans are to develop one through the Stanford Geriatric Education Center during the 1987-88 academic year, however, and should be available by 1989.

Since the geriatric clerkship involves multiple sites and is usually more complex than other clinical rotations, it is helpful to have written instructions prepared for students explaining their responsibilities and specific information for reporting to each site.

It is wise to plan the type of evaluation that is to be used for the clerkship well in advance of scheduling the first student. Three tools that could be used for evaluation are included on the following pages. They could be used as supplements to the program's standard evaluation forms for clerkships. The knowledge section should be modified to fit the individual settings and learning experiences used from the Model. The three tools are:

a. A post-test designed to measure student progress toward cognitive (knowledge) and affective (attitude) objectives of the clerkship. Part I includes code, matching, and multiple choice questions; Part II is composed of modified patient management problems. Part III and IV measure attitudes toward aging and multidisciplinary teams. Correct answers for Parts I and II are found in Appendix J.

b. A sample rating form for evaluation of clinical encounters to measure student's progress toward behavioral objectives. It can be used by a faculty site visitor or for the student's performance in an actual clinical situation, in a videotaped encounter or a role playing situation. Unless absolutely necessary, it is not recommended that the form be used to rate the student's habitual performance or a global basis after the end of the clerkship, since that type of evaluation is subject to considerable bias.
The form includes rating for skills in communication, functional evaluation of health status, and patient management/problem solving. Programs that prefer to use a standard site visit form used in all clerkship evaluations may want to incorporate some of the items from this form for a focused rating of geriatric skills.

c. Checklist and rating form for each of the learning experiences to measure degree to which the assignments were completed and how they were evaluated by the student.

Any or all of the forms may be useful as a basis of a summary conference evaluating the geriatric clerkship from the student, preceptor, and faculty perspective.
Post-Assessment for
Model Geriatric Clerkship for PA Students

Part I

A. Use the following code chart for questions in this section.

A = 1, 2, 3 are correct
B = 1 and 3 are correct
C = 2 and 4 are correct
D = 4 only is correct
E = All are correct

1. True statements about presbycusis include which of the following?

   1. The onset of hearing loss is usually gradual
   2. Poor speech discrimination, especially in the presence of background noise, is very common
   3. It affects more than half of individuals over 65 in the U.S
   4. Total deafness is rare

   (Libow & Sherman, Chapter 9)

2. A patient is referred to you with bone conduction thresholds indicating impaired hearing. He may have:

   1. Paget’s disease
   2. A scarred tympanic membrane
   3. Impacted cerumen
   4. Presbycusis

   (Libow & Sherman, Chapter 9)
3. Important parts of the basic evaluation for elders who fall include which of the following:

1. Sitting and standing blood pressure and pulse
2. Test for conductive hearing loss
3. Romberg test
4. CT scan

(Kane, et al., Chapter 1)

4. Principles of working with older adults include which of the following:

1. Intervention in the life of an older person should always be preceded by a comprehensive assessment of the patient's functioning, except in emergencies
2. Multidisciplinary teams of professionals are recommended in the care of older adults
3. Care of older adults requires a new type of service: case management
4. Older adults are treatable

(Pfeiffer article)

5. Common causes of underreporting of symptoms by elders include:

1. Fear
2. Impairment of memory and other cognitive functions
3. Non-specific or atypical presentation of disease, compared to middle-aged or younger patients
4. Patients' anticipation of illness as a normal result of aging

(Kane et al, page 37)
6. Commonly abnormal laboratory parameters among elders include which of the following:

1. Electrolytes
2. Sedimentation rate
3. Liver function tests
4. Albumin

(Kane, et.al, page 47)

7. IADL's include

1. Shopping
2. Continence
3. Reading
4. Dressing

(Kane, et.al, page 50)

8. Which statements are true of incontinence?

1. Urinary incontinence is more prevalent in males than females
2. Most patients with urinary incontinence also have fecal incontinence
3. A residual urine volume of more than 50 ml indicates urinary retention
4. Atrophic vaginitis can lead to transient, reversible urinary incontinence

(Kane, et.al., pp. 123-124)

9. Health screening or immunizations recommended for elders every two years or less include which of the following:

1. Influenza immunization
2. Blood pressure measurement
3. Test for occult blood in stool
4. Chest X-ray

(Kane, et. al., page 297)
10. Which of the following are potentially reversible causes of dementia:

1. Metabolic disorders
2. Nutritional deficiencies
3. Tumors
4. Acute myocardial infarction

(Kane, et al., page 69)

11. True statements concerning decisions about life-sustaining therapy for incompetent patients include which of the following:

1. The decision of a surrogate is considered as binding for the provider as the decision of a competent patient.
2. Living wills are used in some states for elders to give directions to providers before the elders become incompetent, but these have been found to be vague and probably unenforceable.
3. Durable powers of attorney cannot, by law, be used for health care in most states.
4. Resuscitation decisions should be documented on a patient's chart, and orders not to resuscitate should be written along with the therapeutic orders so that their existence and authority are not misunderstood.

(Lynn, Chapter 22 pp. 327-329)

12. Women who benefit most from estrogen treatment to prevent osteoporosis include women from which of the following groups?

1. Women without uteruses
2. Black women
3. Perimenopausal women
4. Obese women

(Kane, et al., page 167)
13. Techniques of management recommended for elders identified as being in the early stages of dementia include which of the following:

1. A trial administration of flurazepam to reduce the risk of night wandering
2. Recommendation to the caregiver of a regular program of new experiences and environments to provide maximum intellectual stimulation
3. Prophylactic doses of amitriptyline to reduce the risk of depression
4. Administration of the Mini-Mental State Examination at six-month intervals

(Winograd & Jarvik article)

14. Guidelines for building good relationships with older patients include:

1. Getting to know the patient well using a comprehensive (or life) history
2. Being frank with the patient
3. Including patient as full participant in decisions about treatment
4. Recognizing negative prejudice against elders (ageism) and avoiding write-off of patients due to supposed "senility" or old age

(Butler article)

15. Recommended interview techniques for older patients include:

1. Including a family member or friend in the initial interview to verify information
2. Scheduling the interview in early morning slots to reduce the fatigue
3. Keeping the interview directed to the medical information needed so as to reduce the patient's tendency to ramble
4. Touching -- this may be important in establishing meaningful relationships

(Libow & Sherman, page 41)
16. Which of the factors below are frequent contributors to the development of pressure sores?

1. Friction
2. Moisture
3. Shearing forces
4. Malnutrition

(Kane, et al., page 173)

17. Which of the following statements is/are true about serum creatinine?

1. Many elders have normal serum creatinine levels
2. Lean muscle mass and creatinine production both affect serum creatinine levels
3. Serum creatinine in elders may be normal at a time when renal function is actually reduced
4. Serum creatinine is a better indicator of renal function in elders than in younger patients

(Kane, et al., pages 6, 26)

18. Antidepressants having a negligible level of sedative effect in the elderly include:

1. Amitriptyline (Elavil(R))
2. Doxepin (Sinequan(R))
3. Trazodone (Desyrel(R))
4. Desipramine (Norpramin(R))

(Kane, et al., page 102)
B. For questions in this section, choose the one best answer.

___ 19. The most common reaction of elders to abuse is:
   a. anger
   b. denial
   c. reporting to authorities
   d. reporting to social worker
   e. telling a friend

___ 20. The leading cause of irreversible blindness in the elderly is:
   a. Cataracts
   b. Diabetic retinopathy
   c. Ischemic optic atrophy
   d. Senile macular degeneration

___ 21. The most common form of glaucoma in the older population is:
   a. Primary open-angle glaucoma
   b. Secondary open-angle glaucoma
   c. Primary angle-closure glaucoma
   d. Secondary angle-closure glaucoma

___ 22. The most common functional psychiatric disorder in elderly people is:
   a. Hypochondriasis
   b. Anxiety
   c. Depression
   d. Paranoia
   e. Schizophrenia
23. An elder diabetic faces the risk of which of the following, (not found among younger diabetics)?
   a. Diabetic nephropathy
   b. Autonomic neuropathy causing impotence in males
   c. Hyperosmolar nonketotic coma
   d. Diabetic ketoacidosis

C. For the following statements indicate:
   a. If it is true of Medicaid
   b. If it is true of Medicare
   c. If it is true of Medicaid and Medicare
   d. If it is true of neither Medicaid or Medicare

   24. It covers a limited number of skilled nursing home days
   25. It covers the cost of prescription drugs
   26. Middle-and-upper income elders are not eligible
   27. State and federal governments both contribute to the support of the program

D. Mark letter for best answer in space before description below:
   a. Alzheimer's Disease
   b. Pseudodementia
   c. Delirium
   d. Multi Infarct Disease

   28. Pathology includes neuronal plaques and neurofibrillary tangles
   29. Patients experience a stepwise progression of symptoms
   30. Patients commonly complain of cognitive and memory loss
   31. Clouded consciousness is frequent
   32. A history of hypertension is common

(Katz article)
Part II

Based on case descriptions, answer the following questions for cases A, B and C.

A. Mr. T., a 70-year-old former television star, comes to your office complaining that, although he has been athletic all his life, his body is "treating me wrong." He has tried to ignore many of his complaints for a long time, but he is chronically fatigued; food doesn't taste the same and is bitter-tasting; his legs and feet feel numb a lot; and he wonders if he is getting old.

1. The MOST LIKELY reason for changes in how food tastes to Mr. T. is:
   a. Liver disease
   b. Diminished sense of smell
   c. Decreased ability to masticate
   d. Mild depression

2. Loss of sensation in the lower extremities of the elderly can be attributed to:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2 and 3
   d. 4 only
   e. All are correct

   1. Decreased vibratory sense in the soft tissues of the thighs, legs, and plantar surfaces of the toes.
   2. Decreased circulation to the lower extremities.
   3. Denervation and muscle atrophy in the extremities.
   4. Thickening of the stratum corneum of the skin.

3. The symptoms of chronic fatigue can involve an extensive work-up. All of the following are possible reasons related to normal aging changes EXCEPT:
   a. Chronic, mild respiratory acidosis with normal activity
   b. Tissue changes in the central nervous system, spinal cord, and peripheral nerves
   c. Simple "old age"
   d. Subclinical, therefore undiagnosed, infections
4. Your history of Mr. T. should include:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only
   e. All are correct

   1. History of presenting complaints
   2. Pertinent ROS, particularly neurological
   3. Previous hospitalizations and outcomes
   4. Medication history, including allergies

5. For an adequate medical evaluation of Mr. T. (above), necessary baseline measurements would include:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only
   e. All are correct

   1. EKG and CXR (PA and left lateral)
   2. Hgb, Hct
   3. Fasting glucose, electrolytes, liver function tests
   4. Clean-catch urinalysis, serum creatinine

6. When the life history, physical exam, and baseline lab data prove to be negative for Mr. T. (above), you then pursue which of the following options for his holistic health care:
   a. Reassure him that his symptoms are part of growing older and that he'll just have to accept them.
   b. Explain to him that although his symptoms are common to the normal aging process, you'd like to hear more about his concerns about growing old.
   c. Educate him on the extensive changes that occur with aging and ask him to come in again if he has any unusual symptoms.
   d. Provide him with a list of vitamins and minerals to slow down the aging process.

B. Mr. B is a 66-year-old white male who comes to the clinic with his wife. She called to request an evaluation of his progressive memory loss and increasing confusion.

1. With the above information as the chief complaint, which of the following questions would be necessary to ask:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only
   e. All are correct

   1. List all current prescriptions and over-the-counter medications
   2. Describe your sleep habits
   3. What is today's day and date?
   4. Do you have trouble getting to the bathroom on time
2. In gathering Mr. B's history, which of the following needs to be considered:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only
   e. All are correct

1. His reliability as a historian
2. His use of words, simple and complex sentences
3. His facial gestures, body movement, and posture in relation to his speech
4. His educational background

(Kane, Chapter 4)

3. Adequate evaluation of a demential (Alzheimer's) patient includes which of the following:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only
   e. All are correct

1. IADLs and ADLs
2. Patient's financial status
3. Quality of life for caregiver
4. The children's financial status

(Kane, et. al., Chapter 4)

4. During the interview, you learn that Mr. B. is aware of his memory loss, becomes frustrated and upset at times because of it, has been writing himself notes for 1-2 years but this doesn’t always help anymore, and is frightened about the possibility of having Alzheimer's disease. If you were to address his concern following a certain ethical stance, you would:
   a. Include Mr. B in the explanation of his diagnosis and treatment plan
   b. Exclude Mr. B from knowledge of his diagnosis and establish a treatment plan for him to follow
   c. Both "a" and "b" can be justified by a particular ethical position
   d. Neither "a" nor "b" is justified by an ethical stance

a. Include Mr. B in the explanation of his diagnosis and treatment plan
b. Exclude Mr. B from knowledge of his diagnosis and establish a treatment plan for him to follow
c. Both "a" and "b" can be justified by a particular ethical position
d. Neither "a" nor "b" is justified by an ethical stance
5. With a diagnosis of Alzheimer's disease, Mrs. B. chooses to care for her husband at home as long as possible. To assist her, you would do which of the following:

a. 1 and 3
b. 2 and 4
c. 1, 2, and 3
d. 4 only
e. All are correct

1. Advise her to change her mind and consider a SNF as soon as Mr. B begins to require constant supervision

2. Give her the name of the local Alzheimer's Disease and Related Disorders Association chapter

3. Begin instructing her on incontinent care, and prepare her for Mr. B's death

4. Provide her with ideas to help Mr. B stay oriented and manage for himself as much as possible; keep in touch by phone to monitor Mr. B's progression

6. During the course of Mr. B's disease, Mrs. B will need:

a. 1 and 3
b. 2 and 4
c. 1, 2, and 3
d. 4 only
e. All are correct

1. Instruction in simple nursing care such as skin care, suctioning for choking episodes, etc.

2. Referrals to respite, and, if necessary, home health agencies

3. Someone to listen sympathetically to her difficulties and to assist her in making objective decisions

4. To institutionalize her husband
7. With the awareness that Alzheimer's is a progressive degeneration of the cerebrum, preparation for the patient's death will include:

a. 1 and 3
b. 2 and 4
c. 1, 2, and 3
d. 4 only
e. All are correct

1. Examination of the health care provider's own feelings about death
2. Insistence that the family allow an autopsy
3. Discussion of the probable causes of death and the family's wishes for use of extraordinary life-saving/life-preserving measures
4. Assistance with funeral arrangements
C. Mrs. Andrews, an 87-year-old woman, is brought to your office by a worried daughter. She has been a patient at the clinic for many years, but you have not seen her before. The presenting complaint is: "I don't feel well, I'm tired and don't want to eat." Her vital signs are: BP 164/88, P 96, R 24, T 98.6°.

1. Without any further information, what data will you want from her record:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only

2. Important information to gain from her PMH would be:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only
   e. All are correct

3. Lab work you would do FIRST that would help with this diagnosis would be:
   a. 1 and 3
   b. 2 and 4
   c. 1, 2, and 3
   d. 4 only

4. Your focused physical exam for this woman (above) would exclude which system at this visit:
   a. Lungs
   b. Heart
   c. Abdomen
   d. Skin
### Part III

**Feelings About Aging**

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

For each of the following phrases place the number from the scale above that best describes your feelings about growing older yourself.

- 1. joyful
- 2. confused
- 3. worried
- 4. unconcerned
- 5. curious
- 6. excited
- 7. interested
- 8. frightened
- 9. resigned
- 10. looking forward to it
- 11. depressed
- 12. dreading it
- 13. don't want to think about it

For the following phrases place the number from the scale above which best describes your conception of what it will feel like when you are old yourself.

- 14. powerful
- 15. tired
- 16. having many options in life
- 17. unloved
- 18. sick
- 19. ugly
Mark the place on the scale that best describes your expectation of how your own aging will compare to the experiences of most people.

1 2 3 4 5

My experience will be much more positive than most of most older people.

To what age would you like to live? ___________
PART IV

Based on the following scales, please indicate the number that best describes your career preferences (what you would like to do) and career expectations (what you expect that you will do, given the job market, your training, etc.) for the situations described below.

<table>
<thead>
<tr>
<th>Preferences</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I definitely do not want to do this.</td>
<td>I'm undecided or don't care.</td>
<td>I definitely do want to do this.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expectations</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I definitely do not expect to do this.</td>
<td>I'm unsure</td>
<td>I definitely expect to do this.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Preference</th>
<th>Career Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work with Older Patients</td>
<td></td>
</tr>
<tr>
<td>Work on an Interdisciplinary Team</td>
<td></td>
</tr>
</tbody>
</table>
Rating Form For Evaluation Of Geriatric Clinical Encounter

Student's name: ____________________________
Rater's name/role: ____________________________
Date of encounter/rating: ____________________________

On a scale of 1 = excellent to 5 = poor, please rate the following aspects of the patient encounter as it was performed by the clerkship student. If there was no opportunity to observe, please indicate by circling NA. Include any comments below the appropriate categories.

A. Communications

<table>
<thead>
<tr>
<th></th>
<th>Excellent</th>
<th>Poor</th>
<th>No Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Maintained respectful tone and language toward elder.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>2.</td>
<td>Communicated in an understanding and clear manner in view of elders' high probability of hearing and vision losses. Used compensatory techniques effectively when communicating with elders with known sensory deficits.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>3.</td>
<td>Recognized and responded to culturally diverse needs and communication styles among elders from various ethnic backgrounds. Exhibited sensitivity to cultural variations in health beliefs and health behaviors among minority elders.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>4.</td>
<td>Demonstrated the need for patience in interacting with older adults in recognition of slower response times.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>5.</td>
<td>Exhibited recognition of diversity among elders and sensitivity to danger of ageist stereotype.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>6.</td>
<td>Avoided attributing to old age potentially treatable disabilities.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>7.</td>
<td>Exhibited belief in the capacity of elders to improve physically and/or psychologically.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>8.</td>
<td>Demonstrated concern for the self-esteem of older adults.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
<tr>
<td>9.</td>
<td>Exhibited empathy for older adults undergoing losses in social roles, and/or sensory and functional abilities.</td>
<td>1 2 3 4 5</td>
<td>NA</td>
</tr>
</tbody>
</table>
10. Demonstrated awareness of and compensation for potential underreporting of symptoms.

11. Listened empathetically to elder's family members' concerns.

Comments:

B. Evaluation/Management of Health Status

1. Elicited information from elder (or other informant) on the history of common concerns affecting functional status (e.g. incontinence, falls, depression).

2. Health problem(s) was(were) assessed and plan was developed reflecting the following:

   a. Knowledge of common geriatric problems

   b. Recognition of interaction of multiple pathologies

   c. Possible atypical or nonspecific presentation of disease

   d. Danger of iatrogenic consequences of treatment

   e. Appreciation of role of family and community resources in support of older adults

   f. Appreciation of role of family and community resources in support of older adults

   g. Attention to need for cost containment strategies in suggesting management alternatives
h. Judicious use of lab tests relevant to differential diagnosis

3. Included functionally oriented evaluation of the following:
   a. Hearing and vision
   b. Walking/ambulation/mobility
   c. Range of motion
   d. Mental Status
   e. Activities of daily living
   f. Instrumental activities of daily living
   g. Family social support
   h. Mood or affect

4. Problem list reflected an understanding of the importance of the elder's functional level as opposed to focusing only on medical diagnoses.

5. The plan reflected utilization of services by other providers where appropriate to maximize the elder's function.

6. Overall, how would you rate the quality of the evaluation of health presented by the trainee.

7. Overall, how would you rate the student's evaluation in geriatric problem solving skills as seen in this encounter

Comments:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

112
MODEL GERIATRIC CLERKSHIP FOR PHYSICIAN ASSISTANT STUDENTS

Sample Checklist and Rating Sheet for Learning Experiences

Student: ____________________________

Coordinator or Preceptor: ____________ Date: ________________

Completed Evaluation
(Yes=Y, No=N) (1=exc. to 5=poor)

I. Communication

A. Readings


3. Libow L & Sherman F (eds.): The Core of Geriatric Medicine
   a) Chapter 3, Interviewing and history taking, pages 38-45
   b) Chapter 9, Hearing disorders
   c) Chapter 10, Visual disorders

B. Seminar Activities

1. View videotape: "Age-Related Sensory Loss: An Empathic Approach".

2. Participate in discussion session on communications, including cultural variations and ageism.

3. Act out a simulated communication with an elder who has hearing loss.

II. Evaluation of Health Status

A. Reading assignments


2. Libow L, Sherman F: The Core of Geriatric Medicine. pp 45-54

B. Seminar Session

1. View videotape on functional assessment.

2. Review forms and process used in functionally-oriented evaluation.

C. Perform a complete functionally-oriented evaluation on ambulatory community-dwelling older patient.

1. Perform histories and physical examinations and additional evaluations using functional evaluation forms.

2. Order needed laboratory tests and record results.

3. Develop problem lists based on the results of lab tests, physical exam, etc.

4. Present cases to clinical instructor and make recommendations for management plan.
D. Attend Multidisciplinary Geriatric Assessment (or Evaluation) Unit Team Meeting, if resource is available.

E. Perform home visit for purpose of evaluating home environment.

III. Management of Common Health Problems

A. Reading assignments


B. Outpatient Care

1. Interview elders with specific complaints, take focused history, and perform problem oriented physical exams. Use consultation or referral, as needed, and recommend management plan to supervisor. Record SOAP notes for each.

2. Order lab tests and/or arrange for additional evaluations as needed for suspected common diagnoses.

3. Attend or conduct follow-up patient encounters for chronic conditions:
   a) Osteoarthritis
   b) Hypertension
   c) Type II diabetes mellitus (NIDDM)
   d) Chronic obstructive pulmonary disease
   e) Angina pectoris
   f) other (specify)
C. Multidisciplinary and Community Supports

1. Attend (and participate in as a member, if possible) meeting of multidisciplinary team involved in health care of elders.

2. Develop list of community resources for health care support for elders.

3. Visit community agency serving elders.

D. Make rounds on older hospitalized patient. Interview patient in hospital and visit patient after discharge.

IV. Health Promotion/Disease Prevention

A. Reading assignments


B. Read guidelines for immunization for elders and give immunization to an elder, if appropriate.

C. Perform routine health screening for an elder in the following areas:

1. Blood pressure, in two positions
2. Colorectal cancer
3. Visual acuity and glaucoma
4. Hearing acuity
5. Mental status
6. Cervical/uterine cancer
7. Infections
8. Diabetes

D. Health Education

1. Locate written health education materials especially for elders.

2. Prepare and give a health education talk to a group of seniors.
   (Topic: ________________________ )
3. Give individual health education consultation or counseling to elders.  
(Topic: __________________________)  

4. Observe and interview participants in:  
   a) exercise class for seniors  
   b) meal site program  

E. Perform health maintenance for elders:  
   1. Removal of cerumen  
   2. Foot care  
   3. Other: (specify) __________________________  

V. Family and Elder Counseling  

A. Reading Assignments  
   1. Review: Kane RL, Ouslander J, Abrass I: Essentials of Clinical Geriatrics. Chapter 4  
   2. Silverstone B & Hyman K: You and Your Aging Parents. Chapters 2, 3, 5, 6, & 7  

B. Seminar Session  
   1. View videotape on dementia  
   2. Discuss family issues in care of elders with social worker from home health agency or other settings where he/she works with families of elders (if available)
C. Attend or conduct session with elder and/or family member concerned about elder's memory problem

D. Develop specific referral resources for:
   2. Day care for respite for family caregiver of dementia patient. Visit Day Care Center; interview staff member, and family member.
   3. Family support group for family with dementia patients. Attend support group meeting.
   4. Elder abuse.

VI. Long Term Care

Review:


   a. Chapter 22: Lynn DJ: Deciding about life-sustaining therapy
   b. Chapter 23: Lynn DJ: Care near the end of life
   c. Chapter 28: Kayser-Jones JS: Physicians and the care of nursing home residents

B. Go on home visit with a staff member in a home health agency.

C. For potential residential care home resident, assist with a functionally-oriented preadmission history and physical assessment
D. Observe a physical therapy session with a patient in rehabilitation unit, day health care center, or nursing home; assist patient with prescribed activities at a later time.

E. In a skilled or immediate-level nursing unit, complete the following activities:

1. Make rounds with primary care practitioner or nurse to observe signs of the following conditions. Discuss and observe methods of prevention.
   a) Contracture
   b) Pressure sores
   c) Constipation
   d) Dehydration
   e) Pneumonia
   f) Foley Catheter complications
   g) Over medication

2. Assist with the feeding of a resident who needs special attention due to impairment in chewing and/or swallowing.

3. Observe and assist with at least one of the following:
   a) Debridement of pressure sore
   b) Insertion of urinary catheter
   c) Insertion of nasogastric tube

4. Attend at least three of the following activities:
   a) Residents' council meeting
   b) Class on current events, or reality orientation (or activity with verbal interaction)
   c) Exercise program
   d) Bowel and bladder training session
   e) Bathing procedure
   f) In-service program for nursing aides

5. Receive training in transfer techniques from nursing staff or physical therapist and assist with transfer of patient from bed to chair and vice-versa.
6. Make rounds on patients and observe routines at least once on each of the three daily shifts.

7. Interview skilled nursing patient about her life, prior living arrangement, family, length of time in nursing home, and adjustment to it. Go with her to her favorite activity listed on the facility's activity schedule.

8. Perform comprehensive functionally-oriented history and physical exam on nursing home patient. Develop updated problem list and recommended management plan. Prepare appropriate chart records of findings.

Comments on completion or evaluation of any of the learning experiences. Please indicate item number or name, then your comment or explanation. Use additional pages if necessary.
8. Developing the Schedule of Learning Experiences.

Below are listed some of the major recommendations for arranging the schedule for a student's clerkship activities.

a. Ideally, one setting should be considered the primary training site or "home base" for each student in Clerkship, with one preceptor in that setting having responsibility as the major clerkship supervisor. However, if that is not possible, having one primary setting for outpatient and one for long-term experiences is very highly recommended. In any case, either a faculty member from the PA program or a clinician from the clinical setting should be assigned the responsibility of coordinating the student's schedule, including seminars if they are used.

b. The largest blocks of time need to be spent in outpatient care and long-term care settings, since those are the major sources of geriatric health care. No less than one-third of the student's time should be used in geriatric outpatient experiences.

c. Exposure of students to relatively healthy, independent elders in community-based settings should precede the exposure to severely impaired elders in nursing homes, for the following reasons:

(1) A positive attitude toward elders is an extremely important part of good geriatric care. First exposing a student training in geriatrics to nursing home residents has been found to reinforce the student's negative ageist attitudes toward elders.

(2) Most older adults are independent and relatively healthy. Only about 5% reside in nursing homes or other institutional settings. The "norm" for healthy aging should be established clearly before exposure to the small proportion of the frailest and most dependent elders.

d. Record-keeping time should be allowed for students during or after the clinical blocks in relation to written requirements (e.g., SOAP notes) used for evaluation.

e. Since seminar time is not a traditional part of clinical training, some programs may choose not to use the seminar experiences. Scheduling faculty for seminars has been found to be problematic in some cases. They are included in the Model especially for programs that have minimal pre-clinical training in geriatrics. If the seminars are used, they should be scheduled at relatively regular times (e.g., weekly) throughout the clerkship.
SAMPLE SCHEDULE

The sample schedule is presented on the following pages for a four-week Model Geriatric Clerkship, with the knowledge that it would be very rare if any program could implement it in its entirety without modification. It is based on the assumption of a 35-hour week. The approximate number of hours for each activity are geared to the Curriculum Units. A chart of the setting for four weeks is followed by a more complete description including Learning Experiences from the Curriculum Units.

If programs have 5- or 6-week clerkships, the additional number of hours are proposed as indicated in the optional 5th and 6th week supplement.

The specific days on which activities are scheduled will obviously need to be geared to the schedules of all those involved from the PA program or from the chosen setting. When the clerkship schedule calls for participation in regularly scheduled events (e.g. Geriatric Assessment or Evaluation Unit Case Conference, or fitness classes in the senior center) those events need to be scheduled first, with the remainder of the schedule built around them.

This sample schedule is based on the major training site being the outpatient clinic, with the nursing home being a major focus for the last two weeks. Neither of the two settings, however, are ever used for an entire day; this is to reduce burn-out for the student and to reduce the burden of supervision for the clinical faculty. This arrangement, however, would obviously be difficult if the settings were widely separated geographically. In that case, the schedule would need to be arranged in block formats to allow entire days at one setting, thereby reducing transportation time.
<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
<th>Day 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM: Orientation/Pretest</td>
<td>AM: Senior center</td>
<td>AM: Inpatient Rounds</td>
<td>AM: Seminar on functionally-oriented health assessment</td>
<td>AM: Attend multidisciplinary geriatric assessment team meeting</td>
</tr>
<tr>
<td>PM: Outpatient clinic Orientation/observation</td>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
</tr>
<tr>
<td>AM: Community resources: list and visits</td>
<td>AM: Senior center presentation</td>
<td>AM: Home visit-post hospitalized patient</td>
<td>AM: Seminar on dementia: video-tapes, readings</td>
<td>AM: Attend Alzheimer's family support group</td>
</tr>
<tr>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
<td>PM: Outpatient clinic</td>
</tr>
<tr>
<td>AM: Visit senior day health care center</td>
<td>AM: Residential care center/FOHPE</td>
<td>AM: SNF rounds</td>
<td>AM: Seminar on long-term care issues</td>
<td>AM: Rehabilitation unit observation</td>
</tr>
<tr>
<td>PM: SNF - orientation/observation</td>
<td>PM: SNF rounds/activities</td>
<td>PM: Home health agency/home visits</td>
<td>PM: SNF activities</td>
<td>PM: Outpatient clinic/SNF night shift rounds</td>
</tr>
<tr>
<td>AM: Home health agency case conference</td>
<td>AM: Rehabilitation unit observation</td>
<td>AM: Hospice staff meeting</td>
<td>AM: Outpatient clinic SNF</td>
<td>AM: Outpatient clinic</td>
</tr>
<tr>
<td>PM: SNF rounds/activities</td>
<td>PM: SNF rounds/activities</td>
<td>PM: SNF</td>
<td>PM: Outpatient clinic</td>
<td>PM: Final exam (post test)</td>
</tr>
</tbody>
</table>
# Model Geriatric Clerkship for Physician Assistant Students

## Proposed Sample Schedule for Four-Week Clerkship

### Week 1

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Unit</th>
<th>Setting*</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Seminar Session</strong></td>
<td>I</td>
<td>Sem</td>
<td>3.5</td>
</tr>
<tr>
<td>Orientation to Clerkship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pretest (if given)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video, readings, role-play, discussion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discussion of reading assignments on communication and functional assessments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Outpatient Clinic</strong></td>
<td>III</td>
<td>Clin.</td>
<td>3.5</td>
</tr>
<tr>
<td>Orientation to Practice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Types of patients, procedures, record-keeping,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Observation of provider/patient encounter, ordering of lab test, and writing up charts.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Day 2

<table>
<thead>
<tr>
<th>Visit Senior Center</th>
<th>IV</th>
<th>Sr.Ctr.</th>
<th>3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observe exercise class, arrange for health education presentation, attend meal site, interview participants. Record reaction.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outpatient Clinic</th>
<th>III,IV</th>
<th>Clin.</th>
<th>3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observe and/or participate in problem-oriented patient encounters (POPE), observe health education, and/or observe family counseling sessions.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See Table 1 on page 125 for key for Settings
<table>
<thead>
<tr>
<th>Week 1</th>
<th>Unit</th>
<th>Setting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Day 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In-patient Services</td>
<td>III</td>
<td>Hosp.</td>
<td>3.5</td>
</tr>
<tr>
<td>Attend rounds on older patients hospitalized for surgery trauma, or acute episodes in chronic conditions. Interview hospitalized patients and family. Visit geriatric wards and geriatric consult services.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Out-patient Clinic</td>
<td>III</td>
<td>Clin.</td>
<td>3.5</td>
</tr>
<tr>
<td>Participate in patient encounters. Begin developing list of community resources for health care support of elders.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Day 4</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seminar Sessions: Functionally-oriented Health Assessment</td>
<td>II</td>
<td>Sem.</td>
<td>3.5</td>
</tr>
<tr>
<td>View video and/or watch demonstration by clinician of history-taking and physical examination of an elder using a functional approach. Become familiar with types of forms and screening devices used. Play out different role parts, if possible. Discuss readings on multi-disciplinary functional assessment. Discuss reading assignments on dementia.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>II</td>
<td>Clin</td>
<td>3.5</td>
</tr>
<tr>
<td>Observe functionally-oriented history and physical exam (FOHPE) on an older patient undergoing an initial evaluation.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Week 1

<table>
<thead>
<tr>
<th>Day 5</th>
</tr>
</thead>
</table>

#### Unit Setting Hours

<table>
<thead>
<tr>
<th>Activity</th>
<th>Unit</th>
<th>Setting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attend a Multidisciplinary Geriatric Assessment (or Evaluation) Unit Team Meeting or Case Conference, if possible.</td>
<td>II</td>
<td>Clin.</td>
<td>2</td>
</tr>
<tr>
<td>Outpatient Clinic See older patients for POPES or FOHPEs for chronic conditions. Participate in health education sessions. Read immunization guidelines for elders. Recommend and administer immunization as suggested in guidelines for disease prevention.</td>
<td>II,III</td>
<td>Clin.</td>
<td>5</td>
</tr>
</tbody>
</table>

Participate in health education sessions. Read immunization guidelines for elders. Recommend and administer immunization as suggested in guidelines for disease prevention.
### Week 2

#### Day 6

**Community Resources**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Unit</th>
<th>Setting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize list of community resources. Visit two community agencies serving elders. Interview staff and clients.</td>
<td>III</td>
<td>Sr. Ctr.</td>
<td>3.5</td>
</tr>
<tr>
<td>Out-patient Clinic*</td>
<td>III</td>
<td>Clin.</td>
<td>3.5</td>
</tr>
</tbody>
</table>

*Note:*

During weeks 2, 3 and 4, time in the *outpatient geriatric clinic* will be spent doing the following:

- Performing or participating in at least two POCIs, using consultants or referral as needed, developing management plans and writing SOAP notes for each; ordering additional lab tests or other evaluations as needed.
- Conducting or participating in at least two follow-up patient encounters for patients with chronic conditions; recording changes in medical or functional parameters; evaluating medication regimen; and recommending changes in management, if needed.
- Performing at least one comprehensive FOHPE for initial evaluation; ordering lab tests, developing problem lists; presenting case to supervisor and nursing staff with recommendation for management plan.
- Giving health education to at least two elders. Giving immunizations as needed.
- Performing health screening and health maintenance activities.
- Counseling with elders and/or their families on management of chronic diseases, referral to community resources, decisions about housing or institutionalization.
<table>
<thead>
<tr>
<th>Day 7</th>
<th>Unit</th>
<th>Setting</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Center Presentation</td>
<td>IV</td>
<td>Sr.Ctr.</td>
<td>3.5</td>
</tr>
<tr>
<td>Give presentation to Senior Center group on health education topic. Record reaction to experience.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>I,II, Clin.</td>
<td>III,IV,V</td>
<td>3.5</td>
</tr>
<tr>
<td>Day 8</td>
<td>Unit</td>
<td>Setting</td>
<td>Hour</td>
</tr>
<tr>
<td>Post hospital home visit</td>
<td>I,III,V</td>
<td>Clin.</td>
<td>3.5</td>
</tr>
<tr>
<td>Visit patient seen last week in hospital at home (or post acute setting). Observe problems, interview patient and caregiver on hospital and post-hospital experience. Record findings and any in-home (or rehabilitation) support needed or being received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>I,II, Clin.</td>
<td>III,IV,V</td>
<td>3.5</td>
</tr>
<tr>
<td>Day 9</td>
<td>Unit</td>
<td>Setting</td>
<td>Hour</td>
</tr>
<tr>
<td>Seminar Session: Dementia</td>
<td>V</td>
<td>Sem.</td>
<td>3.5</td>
</tr>
<tr>
<td>View videotapes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discuss reading assignments and videotapes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assign readings on long-term care</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>I,II,III, Clin.</td>
<td>IV,V</td>
<td>3.5</td>
</tr>
<tr>
<td>Day 10</td>
<td>Unit</td>
<td>Setting</td>
<td>Hour</td>
</tr>
<tr>
<td>Family Support Group</td>
<td>V</td>
<td>Sr.Ctr.</td>
<td>2</td>
</tr>
<tr>
<td>Attend meeting of Alzheimer's Disease and Related Disorders Association (ADRDA) or other family support group for caregivers of dementia patients. Record on issues family discussions and emotions, as well as own emotional reaction.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Outpatient Clinic

Day 11

Day Care/Day Health Care Center

Visit either Senior Day Care or Day Health Care Center. Observe services for family respite, health education, and chronic care management, if available. Attend team case conference, if possible. Interview a patient with dementia, and a family member. Discuss with one of the staff members his/her role in the center. Record findings, observations, and own emotional reactions.

Nursing Home

Attend orientation to services. Observe the roles of various staff members, types of patients, and record keeping procedures.

Observe the nursing care and feeding procedures. Attend a nursing staff meeting.

Day 12

Residential Care/Outpatient Clinic

Visit residential-care (may be called community-care, board-and-care or domiciliary) facility. Observe and record functional level of residents. If possible, perform a ROHPE evaluation for residential care placement through health care provider in residential care home or outpatient clinic.
### Week 3

<table>
<thead>
<tr>
<th>Unit</th>
<th>Setting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 3.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Nursing Home**

- Assist with bringing patients to class or other activity.
- Attend and observe activity.
- Assist with feeding patients who need assistance.

**Day 13**

- **Nursing Home**
  - Make rounds with primary care provider or Director of Nursing to observe major health problems, their prevention and treatment.
  - Observe bathing procedures.

- **Home Health**
  - Accompany staff member from home health agency on home visits. Record health history, needs of patients and caregivers and treatment/management strategies.

**Day 14**

- **Seminar Session: Long-Term Care Discussion Session**
  - Long-Term Care Policy and Financing
  - Ethical Decisions in LTC
  - Administrative Issues in Nursing Home
  - Medicare/Medicaid

- **Nursing Home**
  - Observe bowel and/or bladder training session for elder residents with incontinence problem.
  - Receive training in transfer techniques from nursing staff or physical therapist. Assist with patient transfer.
### Week 3

<table>
<thead>
<tr>
<th>Activity</th>
<th>Unit</th>
<th>Setting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interview nursing home patient about her prior lifestyle, family, adjustment to nursing home. Attend activity with her. Record findings and emotional reaction.</td>
<td>I, VI</td>
<td>LTCA</td>
<td>3.5</td>
</tr>
</tbody>
</table>

### Day 15

| Rehabilitation Unit or Program: Attend physical therapy session with older patient. Observe and record instructions for patient's therapy. | VI | LTCA | 2     |
| Outpatient Clinic: Select two patients in need of updated FOGPE, begin getting acquainted with their charts. | I, II, III, IV, V | Clin | 3     |
| Nursing Home: Make rounds with night shift nurse. Observe "sundowning" cases, and record nurse's approach to sundowning behavior. | VI | LTCA | 3     |
Week 4

Day 16

Home Health
Attend case conference or team meeting of home health agency team. Record reaction to multidisciplinary team function.

Nursing Home

Note: During week 4, time in Nursing Home will be spent doing the following activities:

- Updating FOHPEs, problem lists and management plans for two residents.
- Assisting with prevention and treatment procedures for: complications of immobility (e.g. pressure sores, contractures), constipation, catheter complications, dehydration, pneumonia.
- Observing and/or assisting with debridement of pressure sores, insertion of urinary catheter and nasogastric tubes, if possible.
- Making rounds with primary care provider.
- Attending Resident's Council Meeting.
- Attending or assisting with planning for staff development program counseling with family members.
- Attending staff meetings.
<table>
<thead>
<tr>
<th>Week 4</th>
<th>Unit Setting</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Day 17</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rehabilitation Unit or Program</td>
<td>I,VI LTCA</td>
<td>1</td>
</tr>
<tr>
<td>Assist or observe patient from day 12 session with her therapy exercises from Physical Therapy session. Note progress.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>I,II, Clin. III,IV,V</td>
<td>3</td>
</tr>
<tr>
<td>Nursing Home</td>
<td>VI LTCB</td>
<td>3</td>
</tr>
<tr>
<td><strong>Day 18</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attend Hospice Unit staff meeting with physician or primary care provider. Make home visits to terminally-ill patients with staff member or volunteer, if possible. Record emotional reactions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing Home</td>
<td>I,V,VI LTCB</td>
<td>3.5</td>
</tr>
<tr>
<td><strong>Day 19</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepare Final Clerkship reports</td>
<td>Sem.</td>
<td>3.5</td>
</tr>
<tr>
<td>Nursing Home</td>
<td>I,VI LTCB</td>
<td>3.5</td>
</tr>
<tr>
<td><strong>Day 20</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>I,II Clin. III,IV,V</td>
<td>5</td>
</tr>
<tr>
<td>Take Final Exam</td>
<td>Sem.</td>
<td>2</td>
</tr>
</tbody>
</table>
RECOMMENDATIONS FOR SUPPLEMENT FOR FIVE AND SIX WEEK CLERKSHIP

<table>
<thead>
<tr>
<th>Activity</th>
<th>Additional Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Outpatient Clinic</strong></td>
<td></td>
</tr>
<tr>
<td>1. Do additional FOHPEs, lab tests, problem lists, and recommended management plans.</td>
<td>7</td>
</tr>
<tr>
<td>2. Evaluate home environment and present to primary supervisor.</td>
<td>3</td>
</tr>
<tr>
<td>3. Do additional POPE and follow-up encounters for chronic conditions.</td>
<td>3</td>
</tr>
<tr>
<td>4. Do additional patient education.</td>
<td>2</td>
</tr>
<tr>
<td>5. Do health screening.</td>
<td>2</td>
</tr>
<tr>
<td><strong>B. Geriatric Evaluation Unit/Team</strong></td>
<td>3</td>
</tr>
<tr>
<td>Attend second team or case conference (or other multidisciplinary team case conference).</td>
<td></td>
</tr>
<tr>
<td><strong>C. In-patient setting</strong></td>
<td>3</td>
</tr>
<tr>
<td>Make additional rounds on elders hospitalized for injury, surgery, or acute episodes of chronic conditions.</td>
<td></td>
</tr>
<tr>
<td><strong>D. Home Health</strong></td>
<td>3</td>
</tr>
<tr>
<td>Make additional home visits with agency staff.</td>
<td></td>
</tr>
<tr>
<td><strong>E. Nursing Home</strong></td>
<td>7</td>
</tr>
<tr>
<td>Attend additional activities. Interview other nursing home resident(s) in-depth Attend rounds with primary care providers.</td>
<td></td>
</tr>
<tr>
<td><strong>G. Hospice</strong></td>
<td>2</td>
</tr>
<tr>
<td>Make additional visits to terminally-ill elders.</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>35</td>
</tr>
</tbody>
</table>

145 135
9. Recruiting and scheduling individual students into clerkship.

Although a few PA programs have been able to arrange required geriatric clerkships for their students, the more common pattern is to offer the clinical rotation in geriatrics as an elective. As an elective, one of the major challenges in the process of implementation is interesting students in enrolling given the general bias in medical education against chronic illness in favor of the more immediate rewards of acute care. Some programs have found that enrollment for elective clerkships rise dramatically when an enthusiastic faculty member presents geriatric material in preclinical classes, emphasizing the interesting challenges and the important role PA's can play in the care of older adults. Another strategy that has worked well is to identify students potentially interested in geriatrics early in their first year, reinforce them for their interest with special attention, and encourage them to save room in their clinical year for the geriatric clerkship. In many cases, some type of special "marketing" is required to interest students initially, but once a positive experience is completed by one or two students the informal student rumor network increases the potential subscribers significantly.

It is strongly recommended that students be scheduled for the geriatric clerkship after they have completed some of the more basic clinical experiences, such as family practice or internal medicine rotations. Of course, this is difficult to accomplish for all students when the geriatric clerkship is very popular or required, since some students will need to be in the geriatric rotation early in the clinical year. For those students, some special assistance with basic clinical skills before the complexities of geriatric care might be helpful.

10. Following clerkship students and evaluating their progress.

While students are involved in the clerkship, it is helpful for the coordinator to stay in close contact so that any potential problem can be addressed before it becomes a major impediment to a successful experience. For example, sometimes schedules need to be adjusted during the rotation for changes in staff or patient availability in one of the sites.

Arrangements should be made for administration of tests or other types of evaluation planned by coordinator.

11. Evaluating clerkship, revising as needed.

After formal and informal evaluation by students and preceptors, revisions should be made as indicated to adapt the Model in a more effective manner for the goals of the program and the geriatric clerkship.
Appendices
APPENDICES

A. PAs in Geriatric Medicine: An Annotated Bibliography

B. Abstract of Medicare Legislation Allowing Reimbursement for PA Services

C. List of Geriatric Education Centers (GECs)

D. Graduates of Geriatric Education for PA Faculty (GEPAF) Program

E. Bibliographies of Geriatric Textbooks, Journals, and Articles

F. Order Blank for Geriatric Curriculum Resource Package

G. List of Geriatric Research Educational and Clinical Centers (GRECCs) in VA Medical Centers

H. List of Area Health Education Centers (AHECS)

I. List of Hospital Based Home Care (HBHC) Programs in VA Medical Centers
APPENDIX A

PAs IN GERIATRIC MEDICINE:

AN ANNOTATED BIBLIOGRAPHY

The Physician Assistant (PA) is a new health-care professional who is trained to function as a "physician extender." The need for improving the medical care rendered in geriatric facilities has been documented, and PAs appear to be a natural resource to help fill this gap. Experience with 71 PA students and graduate PAs at the Jewish Institute for Geriatric Care supports this possibility. The challenge is for gerontologists and geriatricians to take the initiative and introduce the PA to their respective institutions where they can study further their role and their effect on patient care as well as on improved physician involvement in long-term institutions.


This inquiry reviews several of the more prominent examples of the utilization of nonphysicians in other countries, touching specifically on their roles and organizational relationships. Next, the policy of using nonphysicians in the provision of primary care is considered, noting the contrasts between developing and industrialized countries. Lastly, the adoption of PAs and NPs in the United States is discussed, focusing on the current and future roles for these providers in primary care.


Physician Assistants were intended to be assistants to primary care physicians. Physician in private practice have only moderately responded to the availability of these professionals. Cautions in numbers of foreign medical graduates entering American schools for medical education, concern for overcrowding in some specialties, and the economic and clinical capabilities of physician assistants have lead to new uses of these persons. Physician assistants are employed in surgery and surgical sub-specialties; in practice settings in institutions such as medical, pediatric, and surgical house staff; and in geriatric facilities, occupational medicine clinics, emergency rooms, and prison health systems.


Journal abstract: Because the number of aged persons in the population is increasing and localized maldistributions of health care manpower persist, it has been suggested that new health professionals
might provide health services for older persons who would otherwise face problems in obtaining health care. In this study, the authors tested the degree to which older persons know about and are accepting of care by new health professions. They found that older persons know less about and accept less NHP care than do younger persons, although they are still mostly accepting of such care. In addition, older persons are more satisfied with their current care providers. Taken together, these findings indicate that older persons do not currently provide a source of expressed demand for NHP services.


Prepared by a Subcommittee of the State Medical Society of Wisconsin's Committee on Aging and Extended Care Facilities to answer questions about quality of care, supervision and reimbursement for PAs in a long-term care setting.

Isiadinso, O., Physician's assistant in geriatric medicine, New York State Journal of Medicine, 79: 1069, June 1979.

Journal summary: A PA can be very effective in patient management and care in a geriatric facility, contributing to quality care by allowing the physician to see more patients under optimal conditions and by relieving the physician of distracting unnecessary minutiae... Relieved of less pressing problems, the physician can spend more teaching time with the PA and can also attend local continuing medical education courses, thus upgrading and updating the physician's own knowledge.


Journal abstract: This paper provides estimates of the needs for medical geriatric manpower under four different models: continuation of the status quo; academic geriatricians only; provision of care by academic and consultant geriatricians; and provision of care by academic, consultant, and primary care geriatric practitioners. Each option is further analyzed in terms of three levels of delegation to nonphysician clinicians. The recommendation states "We think that geriatricians should provide improved care, including both consultant and primary care, to people aged 75 years and older, and that they should delegate a moderate amount of responsibility to nurse practitioners, physician assistants, and social workers. On the basis of these assumptions, and allowing for an academic role as well, we estimate that the United States will require between 7,000 and 10,300 geriatricians by the year 1990; the best intermediate figure is about 8,000."

This study was designed to provide quantitative estimates of the geriatric manpower that might be required over the next 50 years in the United States. This report is intended to be used by policymakers, educators, and others interested in the training and deployment of geriatric personnel.

Kraak, W., Institutional elderly—more than a success in geriatrics, Physician Assistant & Health Practitioner, 3:70, October 1979.

The quality of communications and relationships established with geriatric patients is of utmost importance. The PA's ability to spend more time with a patient and a preventive viewpoint of medicine potentially makes for a very satisfying PA/patient interaction. Psychological, sexual, and social needs of the geriatric patient are briefly discussed.


Nursing home patients are underserved by physicians and thus may benefit from services provided by ancillary medical personnel. This study has shown that by identifying medical problems, a geriatric nurse practitioner can increase the effectiveness of physician caring for nursing home patients.


Journal summary: Changing disease patterns coupled with recent shift in societal values bring into focus ... the problems of geriatric care, with their medical and social aspects. Medicare and Medicaid were meant to respond to the needs of geriatric care. However, there is almost a general consensus that in spite of being valuable ... Medicare and Medicaid have failed to generate considerable changes in the overall care for the elderly. The basic characteristics of the American health care system are not conducive to an approach which envisages geriatric care as a comprehensive primary care level, within a system of health care, combining medical with social activities in a team led by a competent physician. An attitude on the part of the medical profession which concentrates on the medical aspects only and neglects the entire complex of problems, substantial and organizational, associated with geriatric care, may lack utility ... However, certain specific difficulties seem to result from the fact that some components of the health care system insist on solving problems generated by changing disease patterns and changing societal values, with no change in their own structure and their own value system.


There is an increasing recognition of the need for educational programs in geriatric medicine, a previously neglected area of medical
education. Such training is particularly important in family medicine residencies because primary care physicians have provided the bulk of health care to the elderly and probably will continue to do so. There are many advantages to using a competency-based curriculum model in developing such an educational program in geriatric medicine. The competency-based model clearly states educational objectives and identifies pertinent instructional resources and evaluation methods. A competency-based curriculum model is described which divides competencies under four major goals: understanding principles of geriatric medicine, obtaining and interpreting data, managing geriatric patients, and working as a member of a health care team. Sample objectives for each goal are described, and experience using this model in a family medicine residency is reviewed.


Journal abstract: This article describes the development of a gerontology curriculum in a college of health sciences and the interaction of gerontological concepts with the health professions curricula of the college ... The article also provides a series of examples of how health science disciplines have expanded their instructional resources by focusing on the application of their discipline to the aged. This unique setting for a gerontology curriculum has allowed a greater diffusion of concepts of aging and services to the college's health professions curricula.


The increase in the geriatric population and the growing medical needs of this population point to the need for specially trained health care practitioners to provide care. One PA's experience in a geriatric setting is described. The PA's duties included clinical evaluations, therapeutic and diagnostic procedures and counseling.


Journal abstract: This pilot study reports on issues germane to the geriatric specialization-manpower debate. The study found that a large amount of the functional responsibility required by older adults in an urban clinic setting could be delegated to physician extenders. Other findings included shorter hospitalizations, increased feelings of well-being, and high patient satisfaction with physician extended care. The implications are that rather than develop a new physician specialty, more geriatric manpower needs could be met by delegating responsibility to appropriately trained and supervised physician extenders.

A survey of the PA educators revealed a five-fold increase in the number of required and elective experiences in geriatrics within PA programs between 1980 and 1985, which appeared related to federal funding initiatives for PA training. A survey of PA practitioners demonstrated a significant level of interaction with a broad spectrum of problems common to the elderly, and a pattern of perceived needs for specific topic and skill areas in geriatric training that mirrored closely that expressed by PA educators. A review of DHHS supported geriatric curriculum development projects form the basis of behavioral objectives for new curriculum modules in geriatrics. Health promotion, biological aging, psychological aging, sociological aging, disease processes in the aged, health status appraisal, and pharmacology were content areas included in the physician assistant curricula.


In this case study of the roles PAs fill in geriatric care, 46 PAs and their supervisors in nine diverse geriatric sites were interviewed. The most common duties and responsibilities reported were performing histories and physicals, performing technical/lab procedures, establishing tentative diagnosis and recommending a treatment plan, prescribing medications, and providing follow-up. Sixty-one percent of the PAs said they had no special training in geriatrics and made recommendations for geriatric topics in continuing medical education.


The pilot study was designed to evaluate the incidence of and influence of polypharmacy on the outcome of nursing home care and to study the possibility of modifying the effect of traditional medical practice in the nursing home which results in polypharmacy by the utilization of a geriatric medical team (geriatrician and geriatric physician's assistant) in nursing home care.

Tideiksaar, R., Geriatric medicine—the place for PAs?, Physician Assistant & Health Practitioner, 6:67, June 1982.

With the elderly accounting for an increasing proportion of the population, and so many of those in need of medical care, geriatric training for PAs has become a necessity. The question is how— and where—to fit it into the PA curriculum.

The letter responds to an article by Cawley and associates on the utilization of PAs in geriatrics. The author makes several points: 1) that the use of PAs may lower medical costs by reducing the frequency of hospital care, 2) that PA training must include geriatric curricula and 3) that further studies must develop assessment measures to evaluate the impact of PA services on patient function in geriatric care settings.

Tideiksaar, R., The role of the physician's assistant in gerodontics, Special Care in Dentistry, 3:110, May-June 1983.

A unique program in geriatric dentistry for physician assistant students is described. The overall goal is to enable the student to gain didactic and clinical exposure to oral symptomatology and its biopsychosocial consequences to the elderly. This will make it possible for the PAs to identify oral needs of the aged and suggest possible intervention by dental practitioners.


Journal abstract: Dr. Tideiksaar defines the increasing need for physician extenders (physician assistant and nurse practitioners), their present and potential roles, and the impediments to their widespread use. He gives practical guidance on setting up and financing physician extenders for the individual practitioner.


Journal abstract: The growing elderly population and the impact of the DRG based system of payment under Medicare has focused attention on the future of patient care in nursing homes. The author encourages further examination of PA utilization which would result in economic benefits under the DRG system. Cost savings would stem from early recognition of a problem, prompt treatment, appropriate referrals, fewer transfers for acute care, closer monitoring of therapeutic regimens and improved communication.

Tiger, S., PAs in geriatric medicine, Health Practitioner & Health Assistant, 2:46, September 1978.

The medical challenge of geriatric medicine to health practitioners is noted. A rotation of PA students through geriatric facilities is described.

Journal abstract: This project was undertaken to investigate the extent of the interaction between physician assistants (PAs) and the geriatric population. The objectives of the study were to propose ways to provide better care for older patients, to broaden our understanding of the role of the PA and to delineate possible geriatric training needs for PAs. A survey instrument including questions about demographic information, educational background, medical experience, and patient population characteristics was mailed to a 5% random sample of physician assistants practicing in the United States. A sixty percent return rate was achieved. Most PAs surveyed worked in primary care settings which care for a large proportion of geriatric patients. These PAs have had little formal classroom education in geriatrics but most were exposed to the management of geriatric patients during their clinical training. The primary implications for the utilization of these results include geriatric curriculum development in physician assistant training programs and postgraduate training programs.
APPENDIX B

ABSTRACT OF MEDICARE LEGISLATION
ALLOWING REIMBURSEMENT FOR PA SERVICES
Omnibus Budget Reconciliation Act of 1986 was passed by Congress October 17, 1986 and signed by President Reagan, October 21, 1986.

The committee bill has authorized coverage of the services of physician assistants furnished under the supervision of a physician in a hospital, skilled nursing facility (SNF), intermediate care facility (ICF), or as an assistant at surgery. Payment would be made on a reasonable charge basis under Part B of Medicare. Physician assistant services would be reimbursed subject to a prevailing charge screen equal to 85% of the prevailing charge for comparable physician services performed by nonspecialists when such services are performed in a skilled nursing facility or intermediate care facility. The prevailing charge screen would be equal to 75% of the nonspecific physicians prevailing charge level when such services are performed in a hospital, and 65% of the reasonable charge for a physician when acting as an assistant at surgery. Physician assistants would be required to accept assignment on all claims. This provision is effective with services furnished on or after January 1, 1987.
APPENDIX C

LIST OF GERIATRIC EDUCATION CENTERS (GECs)
### Fiscal Year 1987

#### GERIATRIC EDUCATION CENTER GRANTS

Division of Associated and Dental Health Professions  
BHR, HRSA, PHS, DHHS

Budget Period: 10/01/87 - 09/30/88

<table>
<thead>
<tr>
<th>Center Name</th>
<th>Grantee</th>
<th>Program Director/ Address/Phone</th>
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<tr>
<td><strong>PHS Region I</strong></td>
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<tr>
<td>University of Connecticut</td>
<td>University of Connecticut</td>
<td>Richard W. Besdine, M.D.</td>
</tr>
<tr>
<td>Geriatric Education Center</td>
<td>Farmington, Connecticut</td>
<td>Travelers Center on Aging</td>
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<td>University of Connecticut</td>
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<tr>
<td></td>
<td></td>
<td>263 Farmington Avenue</td>
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<tr>
<td></td>
<td></td>
<td>Farmington, CT  06032</td>
</tr>
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<td></td>
<td></td>
<td>(203) 674-3959</td>
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<tr>
<td>Harvard Geriatric Education Center</td>
<td>Harvard Medical School</td>
<td>Benjamin Liptzin, M.D.</td>
</tr>
<tr>
<td></td>
<td>Boston, Massachusetts</td>
<td>Division on Aging</td>
</tr>
<tr>
<td></td>
<td></td>
<td>643 Huntington Avenue</td>
</tr>
<tr>
<td></td>
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<td>Boston, MA  02115</td>
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<td><strong>PHS Region II</strong></td>
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<tr>
<td>Western New York</td>
<td>State University of New York at Buffalo</td>
<td>Evan Calkins, M.D.</td>
</tr>
<tr>
<td>Geriatric Education Center</td>
<td>Buffalo, New York</td>
<td>State Univ. of NY at Buffalo</td>
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<td></td>
<td>Beck Hall</td>
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<tr>
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<td>3435 Main Street</td>
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<tr>
<td></td>
<td></td>
<td>Buffalo, NY  14214</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(716) 831-3176</td>
</tr>
</tbody>
</table>

C. Gleich: p11:07/10/87
Geriatric Education Center of University of Puerto Rico
San Juan, Puerto Rico

Hunter/Mt. Sinai Geriatric Education Center
Hunter College Jointly with Research Foundation of CUNY
New York City, New York

Geriatric Education Center
Temple University
Philadelphia, Pennsylvania

Delaware Valley Geriatric Education Center
University of Pennsylvania
Philadelphia, Pennsylvania

Geriatric Education Center at Virginia Commonwealth University
Virginia Commonwealth University
Richmond, Virginia

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at Birmingham

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Geriatric Education Center

Mississippi Geriatric Education Center

Ohio Valley/Appalachia Regional Geriatric Education Center

University of Florida
Geriatric Education Center

University of Alabama at
Birmingham
Birmingham, Alabama

University of North Carolina
Chapel Hill, North Carolina

University of Mississippi
Medical Center
Jackson, Mississippi

University of Kentucky
Research Foundation
Lexington, Kentucky

University of Florida
Gainesville, Florida

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(904) 392-3197
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<tr>
<th>Institution</th>
<th>Address</th>
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<td>University of South Florida Geriatric Education Center</td>
<td>Tampa, Florida</td>
<td>Eric Pfeiffer, M.D.</td>
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<td>Suncoast Gerontology Center</td>
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<tr>
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<td>PHS Region V</td>
<td>Case Western Reserve University</td>
<td>Jerome Kowal, M.D.</td>
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<td>Western Reserve Geriatric Education Center</td>
<td>Cleveland, Ohio</td>
<td>Department of Medicine</td>
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<td>CWRU School of Medicine</td>
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<td>Jesley Ruff, D.D.S.</td>
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<td>Midwest Geriatric Education Center</td>
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<td>Chicago College of Osteopathic Medicine</td>
<td>Jerry Rodos, D.O.</td>
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<td>Great Lakes Geriatric Education Center</td>
<td>Chicago, Illinois</td>
<td>Chicago College of</td>
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<td>Michigan State University</td>
<td>James O'Brien, M.D.</td>
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<tr>
<td>Michigan Geriatric Education Center</td>
<td>East Lansing, Michigan</td>
<td>Family Practice</td>
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<td>B100 Clinical Center</td>
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<td>East Lansing, MI 48824</td>
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<td>(517) 333-0770</td>
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<tr>
<td>PHS Region VI</td>
<td>Baylor College of Medicine</td>
<td>Robert E. Roush, Ed.D., M.P.H.</td>
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<tr>
<td>Texas Consortium of Geriatric Education Centers</td>
<td>Houston, Texas</td>
<td>Baylor College of Medicine</td>
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<td></td>
<td></td>
<td>One Baylor Plaza, Room 134-A</td>
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<td>Houston, TX 77030</td>
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<td>(713) 799-6470</td>
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</tbody>
</table>
South Texas Geriatric Education Center
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Margaret Diamond, R.N., Ph.D.
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College of Nursing
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Salt Lake City, UT 84112
(801) 581-8198
<table>
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<th>Region</th>
<th>Center Name</th>
<th>Institution</th>
<th>Address</th>
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<tr>
<td>IX</td>
<td>Dakota Plains Geriatric Education Center</td>
<td>University of North Dakota</td>
<td>Grand Forks, North Dakota</td>
<td>Clayton E. Jensen, M.D.</td>
<td>(701) 780-3200</td>
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<tr>
<td></td>
<td></td>
<td>UND School of Medicine</td>
<td>Department of Family Medicine</td>
<td>221 South Fourth Street</td>
<td>Grand Forks, ND 58201</td>
</tr>
</tbody>
</table>

|        | Pacific Geriatric Education Center | University of Southern California | Los Angeles, California | R. Bruce Sloane, M.D. | (213) 224-7994 |
|        |             | LAC/USC Medical Center | University of Southern Calif. | KAM 300-C | 1975 Zonal Avenue |
|        |             | 1975 Zonal Avenue | Los Angeles, CA 90033 | (213) 224-7994 |

|        | Stanford Geriatric Education Center | Stanford University | Stanford, California | William Fowkes, M.D. | (415) 723-7284 |
|        |             | Division of Family Medicine | Stanford University School of Medicine | HRP Bldg., Ste 107 | Stanford, CA 94305-5092 |
|        |             | Stanford, CA 94305-5092 | (415) 723-7284 |

|        | Pacific Islands Geriatric Education Center | University of Hawaii at Manoa | Honolulu, Hawaii | Madeleine Goodman, Ph.D. | (808) 948-8445 |
|        |             | Assistant Vice-President for Academic Affairs | University of Hawaii | Bachman Hall 105 | Honolulu, HI 96822 |
|        |             | University of Hawaii | (808) 948-8445 |

|        | California Geriatric Education Center | Regents of the University of California | Los Angeles, California | John Beck, M.D. | (213) 825-8333 |
|        |             | University of California | Department of Medicine | Division of Geriatrics | 32-144 CHS |
|        |             | 32-144 CHS | 1033 Le Conte Avenue | Los Angeles, CA 90024 | (213) 825-8333 |
APPENDIX D

GRADUATES OF GERIATRIC EDUCATION FOR
PA FACULTY (GEPAF) PROGRAM
GERIATRIC EDUCATION FOR PHYSICIAN ASSISTANT FACULTY

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Physician Assistant Program
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Detroit, Michigan 48219
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Physician Assistant Program  
Drawer XX  
Atlanta, Georgia 30322  
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Department of PA Education  
School of Allied Health Professions  
Health Sciences Center  
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University of Texas  
Health Science Center  
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Physician Assistant Program  
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Wake Forest University  
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GEPAGFRA, SB
APPENDIX E

BIBLIOGRAPHIES OF GERIATRIC TEXTBOOKS,
JOURNALS AND ARTICLES

ARTICLE EVALUATING GERIATRIC TEXTBOOKS
BIBLIOGRAPHY OF GERIATRIC TEXTBOOKS AND JOURNALS

BIOLOGY OF AGING TEXTS


GERIATRIC TEACHING TEXTBOOKS AND MODULES

Ernst N: Geriatric Curriculum Modules for Allied Health Professionals. Bureau of Health Professions, Health Resources Administration, HHS, 1984


Ham R, Marcy M L, Smith M R: Primary Care Geriatrics: A Case-Based Learning Program. 1983


Parham I, Teitelman J, Yancey D: Modular Gerontology Curriculum for Health Professionals. 1981
GERIATRIC MEDICAL TEXTBOOKS


Futrell, Brovender, McKinnon-Mullet, Brower: Primary Health Care of the Older Adult. Duxbury Press, 1980


Kallenberg G, Beck J: Care of the Geriatric Patient. UCLA, June, 1982


Schrier R: Clinical Internal Medicine in the Aged. Philadelphia, W.B. Saunders, 1982
Steinberg F: Care of the Geriatric Patient. C.V. Mosby Co., 1983

GERIATRIC JOURNALS

2. Geriatrics. Harcourt, Brace, Jovanovich Publications, 7500 Old Oak Boulevard, Cleveland, OH 44130
5. Journal of Gerontological Nursing. SLACK Inc., 6900 Grove Road, Thorofare, NJ 08086

Geriatrics
An Updated Bibliography
Mark J. Rosenthal, MD

This is the author's fourth revision of a geriatrics bibliography. Approximately one-third of the previous references have been replaced by more current or more detailed articles. Because the literature pertinent to geriatrics has continued to grow ever more rapidly, it has been necessary to omit many informative articles from the bibliography. Preference is given to recent publications, almost all of the references date from the past four years. Some articles were selected to highlight current controversies or changes in viewpoint. An occasional unreferenced article is cited to amplify geriatric aspects of common diseases.

Most of the references deal specifically with an elder patient population, though free use a multidisciplinary approach. Studies of the elderly are confounded by confounders of aging frequent but not universal in our society: inactivity, obesity, malnutrition, and psychosocial trauma. The articles cited concern primarily medical ailments of the elderly but legal, ethical, and sociologic topics are also covered.

The references are divided into categories. The first set deals with some possible causes of aging: the second (II) with physiology, decline accompanying aging; the third (III) with the atypical and nonspecific characteristics of illness among geriatric patients, the fourth describes the elderly and society; and the fifth (IV) with care options. The remainder of the references are cited by pertinent medical specialty. Within each category, references are divided by disease process. Articles are further subgrouped by aspects of those diseases such as clinical or therapeutic.

1 THEORIES OF AGING
   A General
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   B Endogenous Molecular

   C Exogenous Programmed
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WEAR AND TEAR

A Life Expectancy


B System Decline


C Health Maintenance


GERIATRIC PATIENT

A Falls


B Iatrogenics

C Nonspecific Presentation
1. Hale WE, Stewart RB, Marks RG. Haematological and laboratory values in an ambulatory elderly population. Analysis of the effects of age, sex, and drugs. Age Ageing 12:275, 1983

D Temperature Regulation

IV ELDERLY AND SOCIETY

A Economics
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IAGS-JUNE 1987-VOL 33 \NO 6

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310:598, 1984
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Rev 9:365, 1983
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incompetent persons. Concerns about the role of the courts.
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7. McDonald KM. Residents' rights in a life-care retirement com-

192 169
The need for improved legislation. Fam Law 23:583, 1985

V. CARE OPTIONS

A. General

B. Acute

C. Chronic Care

D. Rehabilitation
VI CARDIOLOGY

A General


4. Waller BF, Roberts WC: Cardiovascular disease in the very elderly: Analysis of 40 necropsy patients aged 90 years or over. Am J Cardiol 31:403, 1983


B Aortic Aneurysms


C Atherosclerosis


that in younger patients after acute myocardial infarction or coronary artery bypass grafting. Am J Cardiol 55:263, 1985
E Disrhythmias
F Hypertension
G Medications
H Valvular Heart Disease/Cardiology

VIII DERMATOLOGY

A General

B Ulcers/Decubitis

C Zoster
based study of herpes zoster and its sequelae Medicine 61 310, 1982

IX ENDOCRINOLOGY

A General
5 Hoeldtke RD, Cimino KW: Effects of aging on catecholamine metabolism J Clin Endocrinol Metab 60 479, 1985

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eating osteitis deformans (Paget's disease); Fifty years experience Am J Surg 54: 47, 1981.


F Osteoporosis


G Osteoporosis, Management


H Male Sexual Function


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1. Thyroid

X. GASTROENTEROLOGY
   A. General

B. Hepatobiliary


Devitt J, Benign disorders of

B Menopause (see ENDOCRINOLOGY)

XII. HEMATOLOGY

A. General


B. Anemia


C. Hematologic Malignancies


XIII. IMMUNOLOGY

A. General


B. Gammopathy


XIV INFECTIOUS DISEASE

A General


B Pneumonia


C Tuberculosis


D Urinary Tract Infections


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XV METABOLISM
4 General
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C Lipids
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XVI NEUROLOGY

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5 Muñoz DI Age-related slowing in the retrieval of information from long-term memory J Gerontol 40 206, 1985
6 Impallomeni M, Kenny RA, Flynn MD et al The elderly and their ankle jerks Lancet 1 617 1984

B General

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smoking improves cerebral perfusion among elderly chronic smokers J Am Med Assoc 253:2970, 1985

E Stroke Rehabilitation
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XVII. NUTRITION

A. General


B. Minerals


C. Nutrition Support


D. Vitamins

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Glaucoma


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Hip


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XXIII PSYCHIATRY

A GENERAL

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B Alcoholism


C Bereavement, Death


D Depression


E Psychiatry


C. Sexuality


H. Sleep


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XXVI RHEUMATOLOGY
A. General

B. Therapy

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XXVII SURGERY ANESTHESIA
A General
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C Urinary Incontinence (Catheters—see Infectious Disease)
Geriatric Textbooks for
Family Physicians

The STFM Task Force on Geriatric Education

Although the word “geriatrics” has been in existence for over 70 years, the specialty of geriatric medicine has only been a reality since the reorganization of the British National Health Service in 1948. The United States medical establishment has only recently shown interest in this field, with significant activity developing since the early part of this decade. Family medicine educators have certainly been involved in the development of geriatric core curricula for many of their training programs and have been visible both nationally and locally in the development of the discipline. Indeed, the conceptual framework of geriatric medicine, which crosses specialty lines, emphasizes health care teams, pays attention to family issues, and is highly consistent with the family practice movement. As geriatrics grows, family practice residents, educators, and attending physicians need to pay attention to this new discipline. They

Members of the task force at the time this work was written include:

Coordinator: Robert L. Dickman, MD
Mt. Sinai Medical Center
Kenneth Brummel-Smith, MD
Rancho Los Amigos Medical Center
G. F. Bunting, MD
Lincoln Family Practice Program
Gerald K. Goodenough, MD
University of Utah Medical Center
Lynda McNulty, PhD
Lincoln Cooperative Health Education Program
Philip Sloane, MD
University of North Carolina at Chapel Hill
Gregg Warshaw, MD
University of Cincinnati

Address correspondence to Dr. Dickman, Department of Family Medicine, Mt. Sinai Medical Center, University Circle, Cleveland, OH 44106
must feel comfortable both about their cognitive 'data base' in the area and their own skills in dealing with elderly patients in a variety of clinical settings.

One way of improving one's knowledge is to read one or more textbooks of geriatric medicine. Between 1980 and 1985 over 1000 textbooks were published using the words 'geriatric,' 'aged,' 'gerontology,' and 'aging' in their titles. Indeed, family physicians are bombarded almost weekly with announcements heralding new publications in the field.

The Task Force on Geriatric Education of the Society of Teachers of Family Medicine compiled this review to aid our colleagues in selecting a few appropriate texts for use in training and practice. Obviously, a decision to review but five texts cannot claim to be comprehensive but, on the other hand, can aid physicians who have little time to sort through the voluminous literature.

We selected books that are short enough to be read in their entirety by family physicians interested in the field or by all residents in a training program. We have not selected comprehensive or exhaustive texts, which may be considered more as resource books than for complete reading. Three of the texts have been written by physicians in family medicine and, therefore, are most appropriate for reading by their colleagues. Three are paperback and relatively inexpensive. As a summary, we have prepared Table 1, which provides for easy comparison of all five books to assist readers in making informed choices about which books to purchase.


**Reviewed by Kenneth Bruemel-Smith, MD**

Fundamentals of Geriatric Medicine is a valuable component of the family physician's geriatric library. While it doesn't provide a comprehensive review of all problems encountered in the care of the older person, it does address some aspects of geriatric care rarely seen in common textbooks on geriatrics. It is a useful book for primary care physicians interested in providing quality geriatric care.

The first section is devoted to fundamentals of geriatrics. The essence of good geriatric care, according to the authors, is the 'approach' of the physician, which emphasizes the whole person. Next, the biology of aging is addressed. Descriptions that distinguish changes due to aging from those due to disease are frequent. This section is much better than similar sections in other geriatric texts.

The section on diagnosis is weaker. While the chapters covering falls and spine problems are very good, others suffer from superficiality or biased presentation. In the next section, management issues are addressed. The details are often short, and the point. While some academicians will find them too basic, the busy practitioner or resident will find them helpful and practical. Perhaps the most illuminating and interesting section is the last—Controversies in Geriatric Medicine. Hypertension, estrogen therapy, nutrition, surgery, and ethical dilemmas in the elderly are discussed. A problem-solving approach that emphasizes values and the ability to cope with uncertainty is emphasized. Rarely does one see such thought-provoking writing in a textbook.

Family practice educators will find the self-assessment questions (123 multiple-choice questions and the patient management problems six), particularly helpful. These tools will also be beneficial to physicians studying for the boards.


**Reviewed by Gerald Goodenough, MD**

A great deal of information has been packed into this quite portable volume in part because of the small print, whose original purpose was to emphasize the geriatric patient and the special needs of the elderly. While the book can be used as a quick reference, it is also very readable and, as stated in the preface, assembled for the general

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**Table 1**

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|Cape ADT, Coe RM, Rossman II, Editors. 465 pp. (paperback)

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audience.

The book is divided into two sections. The larger first section deals with clinical evaluation, drug therapy, and chapters that are specific for different organ systems. These chapters are comprehensive, up-to-date, and practical. The chapter on drug prescribing for the elderly by Peter Lamy deserves special mention for its patient-oriented approach. Robert Lindman's chapter on fluid and electrolyte balance brings a difficult topic into sharp focus and clarifies the issues in a very concise way.

The second section, "Other Considerations," deals with biological aspects of aging, demographics, social issues, and attitudes about sexuality and death. Conspicuously absent is a chapter devoted to comprehensive functional assessment, with a discussion of some of the current assessment tools available. The book must be seen as a valuable addition to the library of busy practitioners, educators, students, and even policy-makers.

Essentials of Clinical Geriatrics.
Kne RL, Ouslander JG, Abra n JB. Editors. 369 pp. (paperback).

Reviewed by
Philip Sloane, MD

This small, compact book by three physicians, members of the UCLA Multicampus division of geriatric medicine, is meant to be used as an introductory text for residents, fellows, or fourth-year medical students. It is clearly written and full of charts and tables. The book is organized in three sections: geriatric assessment, differential diagnosis and management of common problems, and general management strategies, including an approach to drug therapy and the use of long-term care resources. The book also contains an appendix of recommended geriatric medical forms. Many of the charts and tables are quite helpful, although some are too long and detailed.

There is some unevenness in the quality of chapters. Some, such as the chapter on incontinence, are extremely well written and researched. Dr. Ouslander, one of the authors, is a nationally recognized authority in this area. The chapters on demography, etiology, and developing clinical patient care plans are also particularly illuminating. Other chapters, however, are more sketchy and theoretical. Often presenting generalities and thus limiting the book's usefulness as a reference text for clinicians. Lack of specific therapeutic recommendations is the most significant flaw of the book, which undermines its importance as an introduction to geriatrics rather than a standard reference. It can be highly recommended as a resource for residents or fellows taking a geriatric rotation.

Primary Care Geriatrics.

Reviewed by
G.F. Bunting, MD
Lynda McNulty, PhD

Primary Care Geriatrics is a large paperback teaching manual prepared primarily by Dr. Ham, a nationally recognized family physician and geriatrician. The text is designed to provide an overview of geriatric issues for students and residents and is most useful for these learner groups. It is unique in that it emphasizes a case-based learning approach and deals only with multidisciplinary-type problems commonly seen in elderly people. These include confusion, accidents, genito-urinary problems, and immobilization. While Dr. Ham is the principal author of most chapters, he has solicited other contributors who are nationally recognized authorities in some of these areas. The design and organization of chapters and content material are excellent; and the case problems are well prepared and appropriate for medical education. The instructional design is sound; each section includes objective questions and posttests.

A great amount of material is in small print, making the book difficult to read for long periods of time. Some case presentations are a bit lengthy and lose their impact as teaching tools. One area important in treating elderly that is not covered is cost factors and the older patient's ability to pay for services.

Core of Geriatric Medicine.

Reviewed by
Gregg Warren, MD

This book was edited closely by Drs. Libow and Sherman and includes contributions primarily from other faculty related to the Jewish Institute for Geriatric Care in New Hyde Park, New York. The book has a consistent format in which each chapter begins with a discussion of common problems, and concludes with a case-based approach. Each chapter has a well-written introduction followed by a concise discussion of the clinical issues, and concludes with a case presentation and posttests. The chapters on physical disorders, particularly in the elderly, are excellent. The book does serve as an excellent basis for developing a curriculum in geriatric medicine.

The book's content is at a level most appreciated by medical students, but it could also serve as an introduction for family practice residents. Some areas lack enough depth for residents or practicing physicians. The subjects covered are somewhat spotty; thus, the book is not a comprehensive review of geriatric medicine. Some sections, however, are excellent, including the chapters on stroke, fractured hip, amputation, pressure sores, and incontinence. There are also solid chapters on speech and language disorders, hearing disorders, visual disorders, and disorders of the foot. The book contains few photographs or diagrams, but there are some particularly nice pictures in the foot and rehabilitation chapters.

In summary, this is a useful book for medical students on one-month rotations. Some chapters will be of interest to family medicine residents and faculty.
APPENDIX F

ORDER BLANK FOR GERIATRIC CURRICULUM
RESOURCE PACKAGE
Now Available:

GERIATRIC
CURRICULUM RESOURCE PACKAGE

This Geriatric Curriculum Resource Package was originally designed by Stanford University's Division of Family Medicine for the Geriatric Education for Physician Assistant Faculty Project. It contains eight curriculum units, modeling a comprehensive geriatric training curriculum for PA and other health professional students, using both didactic and clinical learning experiences. It also provides recent reference material to supplement a basic geriatric textbook, sources for development of audio-visual materials, resources for health education for experts, and specific resources in writing curricula and evaluation strategies.

The eight units are:

1. Biology of Aging
2. Psychosocial Dimensions of Geriatric Care
3. Health Promotion, Maintenance and Rehabilitation
4. Evaluating the Older Patient
5. Disease Processes
6. Geriatric Pharmacology
7. Long-Term Care Issues
8. Curriculum and Instructional Development for Geriatric Training

Edited by: Gwen Yee, Ph.D., Corne Toole, PA-C,
Virginia Puckes, FNP, MHS and Marc Goldstein, MD
Division of Family Medicine
Stanford University School of Medicine

For more information, call: Gwen Yee, Ph.D.
(415) 725-4489

Order Form

Price: $13.00 per curriculum package (includes postage)

Quantity ordered: ____________________ Total amount enclosed: ____________________

Please make checks payable to: Division of Family Medicine

Return order form to: Joyce Ito
Division of Family Medicine
Stanford University School of Medicine
HAP Building, Suite 902
Stanford, California 94305-5091

Mail to:

223

197
APPENDIX G

LIST OF GERIATRIC RESEARCH EDUCATIONAL
AND CLINICAL CENTERS (GRECCs) IN VA MEDICAL CENTERS
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<tr>
<td>4300 W. 7th Street</td>
<td>735-2813</td>
<td>(501) 661-1202 Ext. 2813</td>
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<tr>
<td>Little Rock, AR  72205</td>
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<td>Geriatric Research, Education and Clinical Center (182B)</td>
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<tr>
<td>Palo Alto VA Medical Center</td>
<td>449-5846</td>
<td>(415) 493-5000 Ext. 5846</td>
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<tr>
<td>Palo Alto, CA  94304</td>
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<td>Geriatric Research, Education and Clinical Center (11E)</td>
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<td>Sepulveda VA Medical Center</td>
<td>960-9484</td>
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<tr>
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<tr>
<td>West Los Angeles (Wadsworth) VA Medical Center</td>
<td>794-6105</td>
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### Section I

EDUCATIONAL RESOURCE DIRECTORY
GERIATRIC RESEARCH, EDUCATION AND CLINICAL CENTERS (GRECCs)
OFFICE OF GERIATRICS AND EXTENDED CARE

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<tr>
<td>Gainesville, FL 32602</td>
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| **MASSACHUSETTS**    |                               |                            |
| Geriatric Research, Education, and Clinical Center (182B) |                               | (617) 275-7500 |
| Bedford VA Medical Center |                               | Ext. 631                  |
| Bedford Division      |                               |                            |
| 200 Springs Road     |                               |                            |
| Bedford, MA 01730    | 840-0631                      | (617) 323-7700             |
|                       |                               | Ext. 5990                   |
|                       |                               |                            |
| Geriatric Research, Education, and Clinical Center (11A) |                               | (617) 323-7700 |
| VA Medical Center     |                               | Ext. 5990                  |
| 1400 Veterans of Foreign Wars Parkway |                               |                            |
| West Roxbury, MA 02132| 817-5990                      |                            |
|                       |                               |                            |
| **MINNESOTA**        |                               |                            |
| Geriatric Research, Education, and Clinical Center (11G) |                               | (612) 725-6767 |
| Minneapolis VA Medical Center |                               | Ext. 6313              |
| 54th St. & 48th Ave., South |                               |                            |
| Minneapolis, MN 55417 | 784-6413                      |                            |
### Section I

**EDUCATIONAL RESOURCE DIRECTORY**

**GERIATRIC RESEARCH, EDUCATION AND CLINICAL CENTERS (GRECCs)**

**OFFICE OF GERIATRICS AND EXTENDED CARE**

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<td>Durham, NC 27705</td>
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<tr>
<td></td>
<td>629-6492</td>
<td>(919) 286-0411 Ext. 6492</td>
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<td><strong>WASHINGTON</strong></td>
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<td>Geriatric Research, Education and Clinical Center (182B)</td>
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<tr>
<td>American Lake VA Medical Center</td>
<td>396-6930</td>
<td>(206) 582-8440 Ext. 6930</td>
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<td>Seattle VA Medical Center</td>
<td>396-2308</td>
<td>(206) 762-1010 Ext. 2308</td>
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<td>4435 Beacon Avenue, South</td>
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<tr>
<td>Seattle, WA 98108</td>
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APPENDIX H

LIST OF AREA HEALTH EDUCATION CENTERS (AHECs)
### ARIZONA
- **Area Health Education Centers (AHECs)**
- **Project Directors**

**Arizona**
- Michael W. Nakash, M.D., M.P.H.
  - Director
  - Arizona Area Health Education Centers Program
  - Public Health Office
  - University of Arizona
  - 3131 East Second Street
  - Tucson, AZ 85719
  - (602) 626-7948

**Arkansas**
- Marcia W. Sherron, D.D.S.
  - Project Director
  - Arkansas Area Health Education Centers
  - Private Office
  - Arkansas Area Health Education Centers
  - 4301 West Main Street
  - Little Rock, AR 72205
  - (501) 581-5290

**California (Statewide)**
- Richard A. Dafoe, D.O.
  - Project Director
  - California Area Health Education Centers
  - Office of the Dean
  - School of Medicine, Room 224-S
  - University of California
  - San Francisco, CA 94143
  - (415) 476-8322

**California (College of Osteopathic Medicine)**
- Ronald L. Barth, D.O.
  - Project Director
  - California Area Health Education Centers
  - State University
  - 5110 East Clifton Way Suite 115
  - Fresno, CA 93727-2058

**Colorado**
- Robert A. Lebow, M.D.
  - Director
  - SEARCH/AHEC Program
  - 4200 East Hamden Avenue, Box A208
  - University of Colorado
  - Health Sciences Center
  - Denver, CO 80222
  - (303) 864-5485

**Florida (SCOM)**
- Ronald L. Barth, D.O.
  - Project Director
  - Southern California College of Osteopathic Medicine
  - 1750 Northwest 118th Street
  - North Miami, FL 33162
  - (305) 849-4000, Ext. 327

**Florida (University of Miami)**
- Bernard J. Fogel, M.D.
  - AHEC Project Director
  - University of Miami
  - R.O. Box 018056
  - Miami, FL 33101
  - (305) 347-6847

**Georgia/Alabama**
- Daniel B. Blumenschein, M.D.
  - AHEC Project Director
  - Chairman/Associate Professor
  - Community Medicine & Family Practice
  - Meharry School of Medicine
  - 720 Westview Drive S.W.
  - Atlanta, GA 30310-1495
  - (404) 732-1624

**Kentucky**
- Richard H. Swain, Ph.D.
  - AHEC Project Director
  - Associate Dean for Academic Affairs
  - University of Kentucky Medical Center
  - 305 East Second Street
  - Paducah, KY 42001
  - (502) 588-6668

**Maine (Tufts)**
- Michael Byrnes
  - Deputy Director
  - (same address and telephone as above)

**Maine (College of Osteopathic Medicine)**
- Michael L. Mantol, M.D.
  - Project Director
  - Board of Directors
  - Tufts University
  - 1000ford Street
  - Boston, MA 02111
  - (617) 854-7063

**Massachusetts**
- Michael W. Nakash, M.D.
  - Project Director
  - Statewide AHEC Program
  - University of Massachusetts Medical Center
  - 55 Lake Avenue North
  - Worcester, MA 01605
  - (508) 856-3225

**Michigan**
- Ann C. Herbst, M.D.
  - Project Director
  - Northeastern State University
  - 902 10th Street
  - Grandville, MI 49418

**Minnesota**
- Thomas L. Swanson, M.D.
  - Project Director
  - University of Minnesota
  - 11207 University Ave.
  - Minneapolis, MN 55455

**Missouri**
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  - Project Director
  - Western Missouri AHEC
  - Truman Medical Center
  - 6015 South 22nd Street
  - Kansas City, MO 64129
  - (816) 373-4415

**New Jersey**
- Stephen A. Weisberg, Ph.D.
  - Project Director
  - University of Medicine & Dentistry of New Jersey
  - 600 Easton Avenue
  - Trenton, NJ 08619
  - (609) 441-6049

**New Mexico**
- Leonard N. Lakatos, Ph.C.
  - Project Director
  - University of New Mexico
  - 615 Stanford Drive
  - Albuquerque, NM 87113
  - (505) 277-2231

**New York**
- Jay A. Zimmer
  - Project Director
  - School of Medicine
  - 1925 Pacific Avenue
  - Atlantic City, NJ 08401

**New York (Columbia University)**
- William H. Weiss, M.D.
  - AHEC Project Director
  - University of New Mexico
  - 615 Stanford Drive
  - Albuquerque, NM 87113
  - (505) 277-3353
<table>
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| • Eugene S. Klauser, M.D.  
  Associate Dean  
  AHEC Program Director  
  Box 3, Wing C  
  School of Medicine  
  University of North Carolina  
  Chapel Hill, NC 27514  
  (919) 966-2461  |
| • John Payne  
  Deputy Director  
  (same address and telephone as above) |
| **SOUTH CAROLINA** |
| • Henry W. Keesling, Jr., M.B.A.  
  Administration  
  South Carolina AHEC  
  Medical University of South Carolina  
  171 Ashley Avenue  
  Charleston, SC 29425  
  (803) 792-4431  |
| **SOUTH DAKOTA** |
| • Assistant Dean for Support Services  
  AHEC Program Director  
  Area Health Education Center Program  
  School of Medicine  
  The University of South Dakota  
  Vermillion, SD 57069  
  (605) 677-4603  |
| **TENNESSEE** |
| • Edwin H. Hamby, M.A.  
  Director  
  AHEC Program of Tennessee  
  East Tennessee Medical College  
  School of Medicine  
  1005 D B Todd Jr. Boulevard, Box 7  
  Nashville, TN 37206  
  (615) 327-6834  |
| **TEXAS (South)** |
| • A. Yvonne Russell, M.D., Ph.D.  
  Assistant Vice President for Community Affairs and Professor of Pediatrics  
  The University of Texas Medical Branch  
  Suite 328 Administration Building  
  Galveston, TX 77550  
  (409) 773-4780  |
| **TEXAS (West)** |
| • Maria Bella A. Flood  
  AHEC Program Director  
  School of Medicine  
  Texas Tech University  
  Health Sciences Center  
  El Paso Regional Academic Health Center  
  4800 Alberta Avenue  
  El Paso, TX 79905  
  (915) 533-3020  |
| • Wanda W. Myers, M.D.  
  Director, AHEC Program Office  
  School of Medicine  
  University of Washington  
  Seattle, WA 98195  
  (206) 543-9241  |
| • DeWayne Johnson  
  Associate Dean for Student Affairs  
  School of Medicine  
  University of Washington  
  Seattle, WA 98195  
  (206) 543-9200  |
| **WASHINGTHON (WA, AK, MT, ID)** |
| • Theodore J. Phillips, M.D.  
  Acting Dean  
  School of Medicine  
  Office of the Dean  
  SC-64  
  University of Washington  
  A-300 Health Sciences Building  
  Seattle, WA 98195  
  (206) 543-1515  |
| • Wayne W. Myers, M.D.  
  Associate Dean for Regional Affairs  
  School of Medicine, SC-64  
  University of Washington  
  Seattle, WA 98195  
  (206) 543-3481  |
| • DeWayne Johnson  
  Associate Dean for Student Affairs  
  School of Medicine  
  University of Washington  
  Seattle, WA 98195  
  (206) 543-9200  |
| **WEST VIRGINIA** |
| • William O. MacKinnon, Jr., M.D.  
  AHEC Program Director and  
  Associate Vice President for Health Sciences  
  Medical Center-Charnelton Division  
  3110 MacCorkle Avenue, S.E.  
  Charleston, WV 25304  
  (304) 347-1206  |
APPENDIX I

LIST OF HOSPITAL BASED HOME CARE (HBHC)

PROGRAMS IN VA MEDICAL CENTERS
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<td></td>
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<td>(8) 563-9311 X208</td>
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<td>Ms. Juanita Gober (118F)</td>
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<td>3.</td>
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<td>Dr. Joseph Rowe (170C)</td>
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<td>(8) 839-0980 X3980, 3979</td>
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<td>9.</td>
<td>Mr. John A. Sperand (122H)</td>
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<td>(8) 322-2981</td>
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<td>16.</td>
<td>Mr. Robert Hunt (122A)</td>
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APPENDIX J

ANSWERS TO POST-ASSESSMENT TEST
FOR MODEL GERIATRIC CLERKSHIP FOR PA STUDENTS
Answers to Post-Assessment Tests
for Model Geriatric Clerkship for PA Students

Part I.

A. Code Questions

1. E  
2. D  
3. B  
4. E  
5. E  
6. C  
7. B  
8. C  
9. A  
10. E  
11. C  
12. B  
13. D  
14. E  
15. D  
16. E  
17. A  
18. D  

B. Best Answer

19. B  
20. D  
21. A  
22. C  
23. C  
24. B  
25. A  

C. Matching

26. A  
27. A  

D. Matching

28. A  
29. D  
30. B  
31. C  
32. D  

Part II

A. Case Histories

1. B  
2. C  
3. C  
4. E  
5. E  
6. B  

B.  

1. E  
2. E  
3. A  
4. C  
5. B  
6. C  
7. A  

C.  

1. C  
2. E  
3. D  
4. D
GLOSSARY
GLOSSARY

Activities of Daily Living (ADL's): basic self-care tasks which include feeding, continence, transferring, dressing, bathing and toileting.

Adult day health care: an organized day program of therapeutic, social and health activities and services, provided to elderly persons or others with physical or mental impairments for the purpose of restoring or maintaining optimal capacity for self-care.

Adult social day care: programs which provide social interaction and support services to elderly persons and functionally-impaired adults who can benefit from day care but do not require the full range of services available in adult day health care.

Ageism: prejudice toward and discrimination against people because of age.

Case management: a coordination of administrative services linking the client and the providers of long-term care. Often case management programs provide client assessment, service plan development and follow-up monitoring.

Continuing care retirement communities (CCRCs): senior residences that provide multiple levels of care ranging from independent living to skilled nursing care. CCRCs may also be called "life care communities" or "continuum-of-care facilities".

Home health care: health services provided in the home of the elderly, disabled, sick or convalescent. The types of services provided include nursing care, social services, home health aide and homemaker services and various rehabilitation therapies.

Hospice: a concept that refers to enhancing the dying person's quality of life. Hospice care can be given in the home, in a special hospice facility or a combination of both.

Instrumental activities of daily living (IADL's): tasks of daily living that are more complex than ADL's and require a combination of physical and cognitive abilities, such as reading, writing, shopping and managing money.

Intermediate care facility (ICF): provides health-related care and services to individuals who do not require the degree of care or treatment normally given by a hospital or SNF but who do require health-related institutional care above the level of room and board.
Rehabilitation therapy: therapy aimed at restoring or maintaining the greatest possible function and independence for patients. Rehabilitation therapy is especially useful to persons who have suffered from a stroke, injury or disease that has rendered them disabled, temporarily or permanently.

Residential care facility: a residential setting for people in need of personal assistance, such as bathing, grooming, dressing, feeding, etc. and protective supervision. Nursing care is not offered on a regular basis.

Skilled nursing facility (SNF): provides the greatest degree of medical care in the longterm care continuum. Every patient is under the supervision of a physician, and the facility has a transfer agreement with a nearby hospital. Twenty-four hour nursing is provided in a physician on-call to furnish medical care in case of emergency. May be covered under MediCare (for only the first 100 days of admission) and Medicaid.
INDEX

activities of daily living (ADL's), 249
acute care settings, 88, 89, 93, 131
adult day health care, 249
adult social day care, 249
affiliation agreements, 95
ageism, 11, 24, 131, 249
AHGC's, 87, 235-237
attributes of PA's in geriatrics, 17, 18
caregivers, 16
case management, 249
clerkship schedule, sample, 135-145
clinical evaluation form, 97, 119-130
competencies for PA's in geriatrics, 11
curriculum resource package form, 223
dementia assessment, 50-51
evaluation tools, 97
faculty development in geriatrics, 84, 179-182
family counseling, 15
functional assessments, 96
functionally-oriented comprehensive health assessment form, 25-54
GEC's (geriatric education centers), 167-176
geriatric textbooks, 217-220
health education topics, 14, 15, 64
health u-motion settings 87, 88, 89, 93
history-taking skills, 11
home health care, 73, 237-241, 249
hospice, 73, 249
instrumental activities of daily living (IADL's), 249
intermediate care facility, 73, 249
longterm care settings, 88, 90, 93, 131, 143
mini-mental state exam form, 49
outpatient settings, 88, 93, 131, 226-231
PA roles in geriatrics, 81, 84
physical examination skills, 12
physician preceptors, 96
post-test, 97, 101-117, 245
prerequisites for geriatric rotation, 147
reading assignments, clerkship, 25, 33, 57, 63, 69, 74
rehabilitation therapy, 249
residential care facility, 75, 250
resident's council meetings, 76, 91
short portable mental status questionnaire (SPMSQ), 48
skilled nursing facility, 75, 250
student interest in geriatrics, 81, 147
VA hospitals, 87, 225-231
videotapes, 25, 33, 69, 96, 97