This annotated, selective bibliography lists the following types of educational and informational material on both sickle cell disease and trait: (1) professional education materials; (2) fact sheets, pamphlets, and brochures; and (3) audiovisual material. A selected list of references is provided for the following topic areas: (1) genetic counseling; (2) overview for allied health professions; (3) pathophysiology, diagnosis, and medical management; (4) pregnancy and sickle hemoglobinopathies; (5) prenatal diagnosis; (6) psychological aspects; (7) public policy; (8) screening: ethical, legal, and social aspects; and (9) sickle cell trait. Appendices present the following information: (1) source list; (2) comprehensive sickle cell centers; (3) screening and education clinics; (4) regional medical libraries; (5) selected online data bases on the Medlars network; and (6) state genetic service coordinators. (BJV)
SICKLE CELL

A Selected Resource Bibliography

NCCEMCH
National Center for Education in Maternal and Child Health
38th & R Streets, N.W.
Washington, DC 20057
(202) 625-8400

September 1986
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The National Center is a resource center that responds to public and professional inquiries in maternal and child health, including human genetics. Established in 1982, the NCEMCH provides services under a grant from the Division of Maternal and Child Health, Department of Health and Human Services.

Printed in the United States of America

88 87 86 5 4 3 2
# SICKLE CELL: A SELECTED RESOURCE BIBLIOGRAPHY

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<td>F State Genetic Service Coordinators</td>
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</table>
Sickle Cell: A Selected Resource Bibliography lists educational and informational material on both sickle cell disease and trait. Included are sources of printed and audiovisual materials.

The bibliography is intended for health professionals, both those working in the area of sickle cell and those working in other areas who wish to know more about the topic. Information on educational materials was obtained by contacting sickle cell organizations and clinical centers throughout the country. Though some publications listed are not recent, they have been included because information therein is accurate and still current. This bibliography is not meant to be comprehensive. Inclusion in the bibliography does not imply endorsement by either the National Center for Education in Maternal and Child Health or any of its sponsors.

Selected references are arranged by subject; some are listed under more than one heading. For further information explore the National Library of Medicine's MEDLARS/MEDLINE system. Local medical center libraries frequently have access to this system. Lists of Regional Medical Libraries and of the databases available on the online networks are included at the end of the publication. The cost of services depends upon the institution performing the search. In addition, there are a number of nonmedical online databases which can provide highly pertinent information, e.g., Psychological Abstracts and Sociological Abstracts. The Regional Medical Libraries as well as many public and academic libraries have access to these systems.

We wish to thank the following for their work as consultants on the previous edition: Dorothy Blackburn-Jefferson, Ph.D., former Health Educator, Sickle Cell Disease Branch, National Heart, Lung, and Blood Institute; James E. Bowman, M.D., Professor of Pathology and Medicine, and Committee on Genetics, University of Chicago, Barbara F. James, Associate Director for Health Education and Development, Howard University Center for Sickle Cell Disease; Allan S. Noonan, M.D., Chief, Genetic Diseases Services Branch, Division of Maternal and Child Health; Sonya I. Ross, former Program Director, Association for Sickle Cell Services, Education, Research, and Treatment, Inc. (ASSERT); Ruth M. White, M.S.W., Executive Director, Sickle Cell Society, Inc.
INTRODUCTION

Sickle cell disease is unique in being the first genetic disease whose molecular and genetic etiology is understood; it has become a paradigm in the understanding of genetic disease. Its pathophysiology is well defined; its rate of morbidity and mortality has declined; its prenatal diagnosis is possible and increasingly accessible.

Because of increased awareness of the scope and impact of sickle cell disease as a public health problem, the Sickle Cell Anemia Act was passed in 1972 and resulted in the development of the National Sickle Cell Disease Program. The program brought about an increase in basic and clinical research, in education, and in quantity and quality of related services. Much has been achieved in all these areas.

Despite significant advances, the disease remains a significant health problem because of unmet needs:

- pain crises are still managed by palliative measures only;
- the clinical variability of the disease is not understood;
- there remains much misunderstanding about sickle cell on the part of the public;
- there is no definitive treatment.

Current stringent fiscal restraints have placed limitations on existing research, screening, treatment, and education programs. To help fill unmet needs for professional and public education, the National Center for Education in Maternal and Child Health has developed a selected bibliography which lists resources available nationwide.
1. Advances in the Pathophysiology, Diagnosis, and Treatment of Sickle Cell Disease (1982) Scott RB [ed], 180 pp. $22.00

Presentation of current research in pathophysiology and applications of current knowledge in diagnosis, prenatal diagnosis, and treatment of sickle cell disease and sickle-beta thalassemia.


A list of references on normal and abnormal hemoglobin and erythrocytes, clinical and immunological problems in sickle cell anemia, molecular genetics of hemoglobinopathies, genetic counseling, drug development, medical management, and psychosocial aspects of sickle cell disease.


Guide for planning community educational sickle cell programs. Stresses the need for high quality of services and discusses the objectives, organization, and mechanics of such a program. Lists advantages and disadvantages of various means of presenting education and information.


Report of a 1979 consensus development conference on the use of transfusion therapy for sickle cell disease patients who are pregnant.
<table>
<thead>
<tr>
<th>Title</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>5. Evaluation and Treatment of Patients with Sickle Cell Disease (1978), 16 pp.</td>
<td>Cincinnati Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>A highly technical manual designed to guide house staff in their evaluation and treatment of patients with sickle cell disease.</td>
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<tr>
<td>A guide for planning the overall framework of a comprehensive sickle cell program. Provides direction and means for self-evaluation.</td>
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<tr>
<td>An exploration of American law and social policy as it applies to modern technology in human genetics. Discusses complexity of genetic screening legislation, including problems encountered in mass screening for sickle cell trait.</td>
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<tr>
<td>A manual for sickle cell counselors. Defines and discusses special challenges encountered. Designed as a supplement for education programs for sickle cell counselors.</td>
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<tr>
<td>Manual for physicians providing services to patients with sickle cell disease. Outlines emergency room, in-patient and clinic care, management procedures, screening, reproduction, and psychosocial and counseling services.</td>
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</tbody>
</table>

Listing of programs organized by states, cities, and counties with comprehensive sickle cell centers; sickle cell screening and education clinics; and V.A. sickle cell programs.


A step-by-step guide for building a community-based sickle cell program.


Presentations of international aspects of the history of sickle cell disease, basic and clinical research, education procedures, and socioeconomic, behavioral, and cultural aspects of the disease. Histories of sickle cell disease in East Africa, the United States, and the Mediterranean. Illustrations, graphs.


A manual to assist community groups initiate suitable laboratory programs. Along with technical instructions for hemoglobin tests, the pamphlet indicates the information obtainable from various tests and indicates when further referral is needed.


This manual provides updated information on laboratory techniques for the diagnosis of clinically important hemoglobin variants.
<table>
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<tr>
<th>TITLE</th>
<th>SOURCE</th>
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<tr>
<td>This publication provides information on approaches to managing sickle cell disease and utilizing current state-of-the-art treatments, especially with regard to complications of the disease.</td>
<td></td>
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<tr>
<td>Descriptions and photographs of ocular manifestation of sickle cell disease. References and glossary.</td>
<td></td>
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<tr>
<td>17. Perspectives on Sickle Cell Anemia (1976), 28 pp.</td>
<td>Cincinnati Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>Articles on diagnosis, treatment, genetic counseling, vocational training, psychosocial factors, and social and legal aspects of mass screening. Originally published in Urban Health.</td>
<td></td>
</tr>
<tr>
<td>Information on laboratory tests for screening and diagnosis, on pathophysiology, on type and frequency, health problems, and medical management of children with sickle cell anemia.</td>
<td></td>
</tr>
</tbody>
</table>

Presentation of papers at the May 1976 conference. Several professionals from medicine, education, and social services shared their experience and perspectives on research on abnormal hemoglobin production, clinical manifestations, and treatment of sickle cell patients.


Protocol for comprehensive management of patients with sickle cell disease including out-patient, in-patient, and emergency room care; home, nutritional, and social work management; special concerns such as pregnancy, surgery and anesthesia, blood transfusions, and ophthalmologic evaluation.

21. Removing Cultural and Ethnic Barriers to Health Care (1985), 267 pp. (Second printing)

Based on a conference held at the University of North Carolina in 1979, this collection of papers focuses on barriers which prevent adequate health care delivery to all cultural and ethnic groups.

22. Screening and Counseling For Genetic Conditions: The Ethical, Social and Legal Implications of Genetic Screening, Counseling, and Education Programs (1983) President’s Commission for the Study of Ethical Problems in Medicine and Biomedical and Behavioral Research, 122 pp. $5.00

Ethical guidelines for genetic screening and counseling programs across the United States. Examines past genetic screening efforts, including sickle cell. Discusses the importance of confidentiality, autonomy, knowledge, individual well-being, and equity in quality and availability of services as they relate to genetic education, screening, and counseling programs.
<table>
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<tr>
<th>Title</th>
<th>Source</th>
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<tbody>
<tr>
<td>23. Screening for Early Diagnosis of Abnormal Hemoglobins [n.d.]</td>
<td>Howard University Center for Sickle Cell Disease</td>
</tr>
<tr>
<td>Scott RB, Castro 0, 10 pp.</td>
<td></td>
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<tr>
<td>Why, when, and how to screen for sickle hemoglobin, with checklist of recommendations.</td>
<td></td>
</tr>
<tr>
<td>24. Screening for Inherited Hemoglobinopathies [n.d.] Bonner-Payne T</td>
<td>Northern California Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>6 pp.</td>
<td></td>
</tr>
<tr>
<td>Description of hemoglobin structure and function and heritability of hemoglobin types. Explains purposes and importance of testing for abnormal hemoglobins for possible treatment and of genetic counseling when a hemoglobinopathy is present. Information presented in English, Spanish, Chinese, and Tagalog. General audience.</td>
<td></td>
</tr>
<tr>
<td>25. Screening for Inherited Hemoglobinopathies in the Expectant Mother [n.d.] Bonner-Payne T</td>
<td>Northern California Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>6 pp.</td>
<td></td>
</tr>
<tr>
<td>Description of hemoglobin's role, heritability of hemoglobin types, and the importance to mother and fetus of screening the expectant mother for the presence of abnormal hemoglobin. Information presented in English, Spanish, Chinese, and Tagalog. General audience.</td>
<td></td>
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<tr>
<td>Filmstrip and viewer, 36 pp.</td>
<td></td>
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<tr>
<td>A self-instructional booklet providing information on sickle cell anemia and trait. Designed for nonmedical personnel in sickle cell programs.</td>
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<table>
<thead>
<tr>
<th>Title</th>
<th>Source</th>
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<tbody>
<tr>
<td>28. Sickle Cell Anemia: A Medical Review</td>
<td>National Center for Education in Maternal and Child Health</td>
</tr>
<tr>
<td>(1979) Lin-Fu JS, 26 pp.</td>
<td>Reviews diagnosis and medical management of sickle cell anemia.</td>
</tr>
<tr>
<td>(1979) Broome M, Monroe S, 110 pp.</td>
<td>Description of a statistical survey of sickle cell anemia patients;</td>
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<tr>
<td></td>
<td>gives expert panels' recommendations based on these data—to improve</td>
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<tr>
<td></td>
<td>the physical and mental health of those with sickle cell anemia.</td>
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<tr>
<td>Scott RB [chairman], 47 pp.</td>
<td>Presentations from 1980 seminar. Review of medical aspects of sickle</td>
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<tr>
<td></td>
<td>cell disease, clinical research in Africa, treatment of the disease,</td>
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<td></td>
<td>screening of umbilical cord blood, and vocational options for those</td>
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<tr>
<td></td>
<td>with sickle cell trait.</td>
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<tr>
<td>31. Sickle Cell Disease: Growth and Development</td>
<td>Howard University Center for Sickle Cell Disease</td>
</tr>
<tr>
<td>[n.d.] Uy Cg, Scott RB, 12 pp.</td>
<td>Gives results of a study of the effect of sickle hemoglobinopathies on</td>
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<td></td>
<td>the growth and development of 192 children.</td>
</tr>
<tr>
<td>Fleming AF [ed], 145 pp, $12.50</td>
<td>A handbook for physicians and medical students who provide or will</td>
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<tr>
<td></td>
<td>provide medical care to patients with sickle cell disease. Outlines</td>
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<tr>
<td></td>
<td>history of medical and scientific understanding of this disorder,</td>
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<tr>
<td></td>
<td>information on trait, genetics, diagnosis, clinical manifestations</td>
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<tr>
<td></td>
<td>during childhood and adulthood, problems encountered during pregnancy,</td>
</tr>
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<td></td>
<td>and recent advances in research and medical management.</td>
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</tbody>
</table>
Patient Care Productions, Darien CT, 28 pp.

A guide for understanding and treatment of sickle cell anemia.
Discusses sickle cell screening, counseling, and genetics of sickle cell disease and trait. Flow charts for patient management.


Conference proceedings of November 1974. Includes information on growth of children with the disease, guidance and vocational counseling, the adolescent, issues in screening, psychosocial impact, and counseling. Index.
1. Alpha Thalassemia [n.d.]
   Bonner-Payne T, 6 pp.
   Northern California Comprehensive Sickle Cell Center

   Describes molecular basis, demographics, genetics, and clinical signs of the most common of the alpha thalassemias. General audience.

2. Asi que Tengo las Caracteristicas de las Celulas Falciformes
   Sickle Cell Disease Branch; National Heart, Lung, and Blood Institute
   National Center for Education in Maternal and Child Health

   Describes (in Spanish) sickle cell trait. For children and young adolescents. Illustrations.

3. Beta Thalassemia [n.d.]
   Bonner-Payne T, 6 pp.
   Northern California Comprehensive Sickle Cell Center

   Describes molecular basis, genetics, demographics, and clinical signs of beta-thalassemia trait and disease (Cooley's anemia) and sickle-beta-thalassemia disease. General audience. Also available in Chinese and Tagalog.

   Scott RB, Kessler AD, 4 pp.
   Howard University Center for Sickle Cell Disease

   Aids teachers in understanding the possible complications of sickle cell anemia in the education of affected school-age children.

5. A Child with Sickle Cell Disease: His Hobbies and Activities (1973)
   Tetrault S, 4 pp.
   Howard University Center for Sickle Cell Disease

   Written for parents of children with sickle cell disease suggesting guidelines to apply when helping the child select hobbies and activities. General audience.
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<th>FACT SHEETS, PAMPHLETS, AND BROCHURES</th>
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<tr>
<td>11. The Family Connection--El Rasgo de Hemoglobina C [n.d.], 8 pp.</td>
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</tbody>
</table>

Describes (in Spanish) the trait and its inheritance. Explains the clinical significance of the trait and the importance of knowing possible outcomes of pregnancy if one or both members of a couple are trait carriers. General audience.


Describes hemoglobin C trait, hemoglobin C-sickle cell disease, and inheritance patterns. General audience.


Describes the trait and its inheritance. Explains the clinical significance of sickle cell trait and the importance of knowing possible outcomes of pregnancy if one or both members of a couple are carriers. General audience.


Describes basic genetics and symptoms of sickle cell diseases. General audience with some previous exposure to basic concepts of inheritance.

16. Hemoglobin [n.d.]
Bonner-Payne T, 8 pp.

Describes structure and function of hemoglobin molecule, genetics, testing procedures, and goals and methods of prenatal diagnosis of some hemoglobinopathies and thalassemias. General audience.
<table>
<thead>
<tr>
<th>TITLE</th>
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<tbody>
<tr>
<td>17. Hemoglobin C [n.d.].</td>
<td>Northern California Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>Bonner-Payne T, 6 pp.</td>
<td></td>
</tr>
<tr>
<td>Provides a general introduction to hemoglobin disorders. Discusses hemoglobin C and the difference between hemoglobin C trait and hemoglobin C disease. Also examines sickle-hemoglobin C disease and pain crises. Also available in Spanish. General audience.</td>
<td></td>
</tr>
<tr>
<td>18. Hemoglobin S [n.d.]</td>
<td>Northern California Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>Bonner-Payne T, 6 pp.</td>
<td></td>
</tr>
<tr>
<td>Explains hemoglobin disorders, with emphasis on sickle hemoglobin. Also available in Spanish. General audience.</td>
<td></td>
</tr>
<tr>
<td>This brochure provides concise and comprehensive information about hemoglobin S, hemoglobin C, and the thalassemias.</td>
<td></td>
</tr>
<tr>
<td>20. Highlights of the Sickle Cell Story</td>
<td>National Association for Sickle Cell Diseases, Inc.</td>
</tr>
<tr>
<td>Describes sickle cell anemia and sickle cell trait. Concentrates on the genetic aspects of the disease and the chances of parents giving birth to affected children. General audience.</td>
<td></td>
</tr>
<tr>
<td>21. How to Help Your Child to &quot;Take It In Stride&quot;: Advice for Parents of Children with Sickle Cell Anemia</td>
<td>National Association for Sickle Cell Diseases, Inc.</td>
</tr>
<tr>
<td>Aids parents in understanding the special medical and psychological aspects of a child with sickle cell disease. Additional reading list. General audience.</td>
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<td>----------------------------------------------------------------------</td>
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<tr>
<td>Discusses normal hemoglobin A and abnormal types C and S. Discusses</td>
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<td>hemoglobin C trait, hemoglobin C disease, and hemoglobin SC disease.</td>
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<tr>
<td>Outlines inheritance patterns. General audience.</td>
<td></td>
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<tr>
<td>23. Our Sickle Cell Story (1975), 8 pp.</td>
<td>Virginia Sickle Cell Anemia Awareness Program</td>
</tr>
<tr>
<td>Describes sickle cell anemia and sickle cell trait. For young people</td>
<td></td>
</tr>
<tr>
<td>in elementary and middle schools. Glossary.</td>
<td></td>
</tr>
<tr>
<td>24. Pastoral Guidance for Families Concerning Sickle Cell Anemia</td>
<td>Virginia Sickle Cell Anemia Awareness Program</td>
</tr>
<tr>
<td>and Other Hemoglobin Variants [n.d.], 4 pp.</td>
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<tr>
<td>Briefly discusses the role of clergy in informing couples who have</td>
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<tr>
<td>sickle cell trait and hemoglobin C trait. Describes clinical</td>
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<tr>
<td>manifestations of sickle cell anemia and inheritance pattern of trait</td>
<td></td>
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<tr>
<td>and anemia. Professional audience: clergy.</td>
<td></td>
</tr>
<tr>
<td>25. Sickle Cell Anemia: Public Health Education Information Sheet</td>
<td>March of Dimes Birth Defects Foundation</td>
</tr>
<tr>
<td>[n.d.]</td>
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<tr>
<td>Describes sickle cell anemia and trait, the at-risk population, and</td>
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<tr>
<td>genetics. Recommends that persons who think they may be affected by</td>
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<td>sickle cell obtain accurate information from a genetics or sickle</td>
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<tr>
<td>cell center. General adult audience.</td>
<td></td>
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<tr>
<td>Scott RB, 16 pp.</td>
<td></td>
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<tr>
<td>Discusses sickle cell anemia and sickle cell trait, including</td>
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<tr>
<td>diagnosis, inheritance, and counseling. Briefly discusses other</td>
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<td>hemoglobinopathies and explains the meaning of the term &quot;gene</td>
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<tr>
<td>mutation.&quot; Intended as a resource for teachers, social workers, and</td>
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<td>other non-medical professionals.</td>
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### FACT SHEETS, PAMPHLETS, AND BROCHURES

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<thead>
<tr>
<th>TITLE</th>
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<tbody>
<tr>
<td>Introduces sickle cell anemia and trait; describes blood cell shape and pattern of inheritance. Glossary. Secondary school audience.</td>
<td></td>
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<tr>
<td>Describes testing procedures for and genetics of hemoglobinopathies. Emphasizes the importance of genetic counseling.</td>
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<tr>
<td>Describes hemoglobin molecule, genetics of sickle cell inheritance, diagnosis, geographic distribution, and treatment. A technical and comprehensive approach. Multicolor illustrations and glossary.</td>
<td></td>
</tr>
<tr>
<td>Approaches by question and answer method: definitions, descriptions, problems, and diagnosis of sickle cell anemia and trait. Adult audience.</td>
<td></td>
</tr>
<tr>
<td>31. Sickle Cell Trait and Sickle Cell Anemia (1979), 14 pp.</td>
<td>Boston Sickle Cell Center</td>
</tr>
<tr>
<td>Introduces in a nontechnical manner sickle cell disease and trait. Illustrated. General audience.</td>
<td></td>
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<tr>
<td>Describes sickle cell trait. Illustrated. For children and adolescents.</td>
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<td>TITLE</td>
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<tr>
<td><strong>33. Tell Me About: G6PD</strong></td>
<td>Boston Sickle Cell Center</td>
</tr>
<tr>
<td>[n.d.], 7 pp.</td>
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<tr>
<td>Presents information about glucose-6-phosphate dehydrogenase defi-</td>
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<tr>
<td>ciency. Testing procedures and medical advisories for persons with</td>
<td></td>
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<tr>
<td>G6PD deficiency are listed.</td>
<td></td>
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<tr>
<td><strong>34. Testing Your Baby for Sickle Cell Anemia and Thalassemia</strong></td>
<td>Northern California Comprehensive</td>
</tr>
<tr>
<td>Discusses hemoglobin and the importance of cord-blood screening in</td>
<td></td>
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<tr>
<td>diagnosing hemoglobin diseases and identifying carriers of an abnor-</td>
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<tr>
<td>mal hemoglobin trait. General audience. Information presented in</td>
<td></td>
</tr>
<tr>
<td>English, Spanish, and Chinese.</td>
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<tr>
<td><strong>35. Viewpoints</strong></td>
<td>National Association for Sickle Cell</td>
</tr>
<tr>
<td>[n.d.]</td>
<td>Disease, Inc.</td>
</tr>
<tr>
<td>Written by the editorial board of the National Association for Sickle</td>
<td></td>
</tr>
<tr>
<td>Cell Disease, Inc., especially for persons with sickle cell anemia</td>
<td></td>
</tr>
<tr>
<td>and their families, to help them understand new developments in dia-</td>
<td></td>
</tr>
<tr>
<td>gnostics and treatment of sickle cell anemia. General audience. Issued</td>
<td></td>
</tr>
<tr>
<td>periodically.</td>
<td></td>
</tr>
<tr>
<td><strong>36. What An Employer Should Know About the Work Potential of</strong></td>
<td>Howard University Center for Sickle</td>
</tr>
<tr>
<td>Persons with Sickle Cell Anemia (1977) Duncan D, Scott RB,</td>
<td>Cell Disease</td>
</tr>
<tr>
<td>5 pp.</td>
<td></td>
</tr>
<tr>
<td>Explains the etiology and clinical manifestations of sickle cell an-</td>
<td></td>
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<tr>
<td>emia and trait. Describes work potential and possible limitations of</td>
<td></td>
</tr>
<tr>
<td>those affected with sickle cell anemia. General audience; prospective</td>
<td></td>
</tr>
<tr>
<td>employers.</td>
<td></td>
</tr>
<tr>
<td>Describes the difference between sickle cell anemia and trait and the</td>
<td></td>
</tr>
<tr>
<td>inheritance patterns of this hemoglobinopathy. Briefly discusses</td>
<td></td>
</tr>
<tr>
<td>testing for trait and anemia, clinical manifestations and medical</td>
<td></td>
</tr>
<tr>
<td>management of anemia and prenatal diagnosis. Illustrations.</td>
<td></td>
</tr>
<tr>
<td>Adolescent and young adult audience.</td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td>SOURCE</td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>38. What is Sickle Cell Anemia?</td>
<td>Sickle Cell Anemia Disease and Research Foundation</td>
</tr>
<tr>
<td>Describes symptoms and genetics of sickle cell anemia and trait.</td>
<td>Also describes ethnic distribution of several other heritable disorders.</td>
</tr>
<tr>
<td>General audience.</td>
<td></td>
</tr>
<tr>
<td>39. What is Sickle Cell Trait?</td>
<td>Howard University Center for Sickle Cell Disease</td>
</tr>
<tr>
<td>Approaches sickle cell trait by question and answer. Illustrations.</td>
<td>General audience.</td>
</tr>
<tr>
<td>40. What Should We Do?</td>
<td>Boston Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>Addresses the situation in which both parents have sickle cell trait,</td>
<td>Discusses reproductive options, prenatal diagnosis, and the importance</td>
</tr>
<tr>
<td></td>
<td>of parental decision making. General audience.</td>
</tr>
<tr>
<td>41. What's All This Talk About Sickle Cell? [n.d.], 20 pp.</td>
<td>Howard University Center for Sickle Cell Disease</td>
</tr>
<tr>
<td>Describes sickle cell anemia and trait, process of and reasons for</td>
<td></td>
</tr>
<tr>
<td>sickling, clinical manifestations, prevalence and genetics.</td>
<td>Emphasizes the difference between anemia and trait. Illustrations and</td>
</tr>
<tr>
<td></td>
<td>diagrams. General audience.</td>
</tr>
<tr>
<td>42. When Your Child is Ill (1974), 15 pp.</td>
<td>Cincinnati Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>A helpful guide for parents in determining the degree of illness.</td>
<td>Gives tips on when and how to care for a child at home, when to call</td>
</tr>
<tr>
<td></td>
<td>the doctor and what should be said when the doctor is called.</td>
</tr>
<tr>
<td>Developed by cartoonist Morrie Turner, and designed for youth and</td>
<td>Young adults, &quot;Where's Herbie?&quot; presents basic information about</td>
</tr>
<tr>
<td></td>
<td>sickle cell anemia and trait through youthful dialogue.</td>
</tr>
<tr>
<td>TITLE</td>
<td>SOURCE</td>
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<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>44. Word Games and Sickle Cell Anemia [n.d.], 8 pp.</td>
<td>Cincinnati Comprehensive Sickle Cell Center</td>
</tr>
<tr>
<td>A collection of puzzles and word search games to test knowledge of</td>
<td></td>
</tr>
<tr>
<td>sickle cell anemia. General audience.</td>
<td></td>
</tr>
<tr>
<td>Describes sickle cell disease, sickle cell crises, and the various</td>
<td></td>
</tr>
<tr>
<td>lifestyle changes necessary to cope with these conditions.</td>
<td></td>
</tr>
</tbody>
</table>
SELECTED LIST OF REFERENCES

GENETIC COUNSELING


OVERVIEW FOR ALLIED HEALTH PROFESSIONALS


Flanagan C (1980) Home management of sickle cell anemia. Pediatric Nursing 6 (2): B-D.


PATHOPHYSIOLOGY, DIAGNOSIS, AND MEDICAL MANAGEMENT


**PREGNANCY AND SICKLE HEMOGLOBINOPATHIES**


PRENATAL DIAGNOSIS


PSYCHOSOCIAL ASPECTS


**PUBLIC POLICY**


SCREENING: ETHICAL, LEGAL, AND SOCIAL ASPECTS


**SICKLE CELL TRAIT**


Howe EG, Kark JA, Wright DC (1983) Studying sickle cell trait in healthy army recruits: Should the research be done? *Clinical Research* 31(2) 119-125.


<table>
<thead>
<tr>
<th>TITLE</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. A Closer Look at Sickle Cell Anemia (1979)</td>
<td>Producer: Golden Door Productions&lt;br&gt;Distributor: Children's Hospital Medical Center of Northern California</td>
</tr>
<tr>
<td>Secondary, General audience</td>
<td>16 mm film; 28 min.; color</td>
</tr>
<tr>
<td>Discusses sickle cell anemia and sickle cell trait, inheritance, ethical issues in genetic counseling and screening, and sickle cell crises. The need for counseling in conjunction with screening programs is stressed and nondirective counseling is encouraged.</td>
<td></td>
</tr>
<tr>
<td>Professional/General audience</td>
<td>1/2&quot; vidocassette; 26 min.; color</td>
</tr>
<tr>
<td>A thorough and sensitive presentation of the needs of the chronically ill student. Contains valuable information for parents, educators and health professionals.</td>
<td></td>
</tr>
<tr>
<td>General audience</td>
<td>3/4&quot; videocassette; 59 min.; color</td>
</tr>
<tr>
<td>Explores ethical questions emerging as a result of the availability of prenatal diagnosis for various genetic diseases. Differences between screening programs, sickle cell anemia, Tay Sachs, and PKU are described as well as the ways in which these differences influence the success of the programs.</td>
<td></td>
</tr>
<tr>
<td>55 slides and audiocassette; 28 min.; color</td>
<td></td>
</tr>
<tr>
<td>Outlines molecular basis of hemoglobinopathies S,C,D, and E. Illustrates geographic origins, diagnostic procedures, discusses clinical manifestations of these disorders and prenatal diagnosis of sickle cell anemia.</td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td>SOURCE</td>
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<tr>
<td>leave blank for page 34</td>
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</tr>
<tr>
<td>5. Living with Hope (1983)</td>
<td>Producer/ Sickle Cell Anemia</td>
</tr>
<tr>
<td>Secondary, General audience</td>
<td>Distributor: Research and</td>
</tr>
<tr>
<td>3/4&quot; videocassette; 21 min.; color</td>
<td>Education Inc.</td>
</tr>
<tr>
<td>Discusses sickle cell anemia and sickle cell trait through interviews with parents, patients, and health care professionals. Also discusses the history and diagnosis of sickle cell anemia and research presently being conducted.</td>
<td></td>
</tr>
<tr>
<td>Secondary, General audience</td>
<td>Ce11 Awareness Program</td>
</tr>
<tr>
<td>3/4&quot; videocassette; 13 min.; color</td>
<td>Distributor: Medical College</td>
</tr>
<tr>
<td>Explains the difference between sickle cell anemia and sickle cell trait, that trait cannot become anemia, that these are genetic, not infectious conditions. Discusses options for couples in which both members are trait carriers.</td>
<td>of Virginia</td>
</tr>
<tr>
<td>7. Sickle Cell Anemia</td>
<td>Producer: Canadian Broadcasting Company</td>
</tr>
<tr>
<td>3/4&quot; videocassette, 16mm film</td>
<td>Distributor: Filmmakers Library, Inc.</td>
</tr>
<tr>
<td>22 min.; color</td>
<td></td>
</tr>
<tr>
<td>Discusses sickle cell anemia on a scientific and human level. Features interviews with a family in which there are three affected children.</td>
<td></td>
</tr>
<tr>
<td>Secondary, General audience</td>
<td>Distributor: PBS Video</td>
</tr>
<tr>
<td>3/4&quot; videocassette, 29 min.; color</td>
<td></td>
</tr>
<tr>
<td>Dr. Daniel Foster and guest, Dr. Helen M. Ranney—professor and head of the Department of Internal Medicine at the University of California at San Diego, discuss various aspects of sickle cell anemia.</td>
<td></td>
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<tr>
<td>TITLE</td>
<td>SOURCE</td>
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<td>-----------------</td>
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</tr>
<tr>
<td>9. Sickle Cell Anemia: A Genetic Disease (1979)</td>
<td>Producer: Golden Door Productions Distributor: Children's Hospital Medical Center of Northern California</td>
</tr>
<tr>
<td></td>
<td>color</td>
</tr>
<tr>
<td></td>
<td>3/4&quot; videocassette; 9 min.; color</td>
</tr>
<tr>
<td></td>
<td>Professional audience slide/sound; 50 min.; color</td>
</tr>
<tr>
<td></td>
<td>Professional audience slide/sound; 78 min; color</td>
</tr>
<tr>
<td>TITLE</td>
<td>SOURCE</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td><strong>13. Sickle Cell Fundamentals, Part I-</strong></td>
<td>Producer: University of Chicago</td>
</tr>
<tr>
<td>The Molecular Biology of Hemoglobins (1978)</td>
<td>Distributor: Sickle Cell Disease</td>
</tr>
<tr>
<td>Professional/General audience 16mm film; 15 min.;</td>
<td>Branch; National Heart, Lung, and</td>
</tr>
<tr>
<td>color; brochure</td>
<td>Blood Institute</td>
</tr>
<tr>
<td>The molecular basis for sickle cell anemia is described. Using animation, depicts the deoxygenated and oxygenated forms of the hemoglobin molecule and explains in lay terms how water-soluble and insoluble amino acids interact with cellular constituents.</td>
<td></td>
</tr>
<tr>
<td><strong>14. Sickle Cell Fundamentals, Part II-</strong></td>
<td>Producer: University of Chicago</td>
</tr>
<tr>
<td>Inheritance of Hemoglobins (1978)</td>
<td>Distributor: Sickle Cell Disease</td>
</tr>
<tr>
<td>General, Professional audience 16mm film; 15 min.;</td>
<td>Branch; National Heart, Lung, and</td>
</tr>
<tr>
<td>color; brochure</td>
<td>Blood Institute</td>
</tr>
<tr>
<td>Describe how sickle cell anemia is inherited and illustrates the probability of a couple having children with the disease or the trait. Discusses the possible improved resistance to malaria of those with the trait. Reviews briefly several other hemoglobin diseases that can cause anemia. Explains the use of electrophoresis as a tool for the diagnosis of sickle cell.</td>
<td></td>
</tr>
<tr>
<td><strong>15. The Sickle Cell Story (1977)</strong></td>
<td>Producer: Howard University</td>
</tr>
<tr>
<td>Secondary, General audience 16mm film; 16 min.;</td>
<td>Center for Sickle Cell Disease</td>
</tr>
<tr>
<td>color</td>
<td>Distributor: Milner-Fenwick, Inc.</td>
</tr>
<tr>
<td>Describes the historical background and physiology of sickle cell anemia and the difference between sickle cell disease and sickle cell trait. Features a young couple coming to terms with their carrier status and their experience with genetic counseling.</td>
<td></td>
</tr>
<tr>
<td><strong>16. Sickle Cell Trait Counseling</strong></td>
<td>Producer/Wayne State University</td>
</tr>
<tr>
<td>[n.d.] Professional audience 16mm film; 30 min.;</td>
<td>Distributor:</td>
</tr>
<tr>
<td>color</td>
<td></td>
</tr>
<tr>
<td>Designed as a training film for sickle cell trait counselors or other health professionals. Demonstrates several psychosocial problems that may arise in individuals with sickle cell anemia and in families with an affected child. Each episode is followed by blank spots to allow for audience discussion.</td>
<td></td>
</tr>
<tr>
<td>AUDIOVISUAL MATERIALS</td>
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<tr>
<td>TITLE</td>
<td>SOURCE</td>
</tr>
<tr>
<td>Primary, Secondary audience</td>
<td>Distributor: Children's Hospital</td>
</tr>
<tr>
<td>16mm film; 12 min.; color</td>
<td>Medical Center of Northern California</td>
</tr>
</tbody>
</table>

Uses animation to explore modes of transmission of recessive disorders. Mentions structure of red blood cells.

| Primary, Secondary Audience | Research and Education, Inc. |
| 1/2" or 3/4" videocassette; 14 min., 30 sec.; color |

Developed by cartoonist Morrie Turner, and designed for youth and adults, "Where's Herbie?" presents basic information about sickle cell anemia and trait through youthful dialogue.
APPENDIX A

Source List

1. Alan R. Liss, Inc.
   150 Fifth Avenue
   New York, NY 10011
   (212) 741-2515

2. Boston Sickle Cell Center
   818 Harrison Avenue
   Boston, MA 02118
   (617) 424-5727

3. Centers for Disease Control
   Center for Infectious Diseases
   Division of Host Factors
   Atlanta, GA 30333
   (404) 329-3925

   200 State Road
   South Deerfield, MA 01373
   (413) 665-7611

5. Children's Hospital Medical Center
   of Northern California
   Sickle Cell Films Department
   51st and Grove Street
   Oakland, CA 94609
   (415) 654-5600

   1560 Broadway
   New York, NY 10036
   (212) 819-5400

7. Cincinnati Comprehensive Sickle
   Cell Center
   Children's Hospital Research Foundation
   Elland and Bethesda Avenues
   Cincinnati, OH 45229
   (513) 559-4541

8. Filmmakers Library, Inc.
   133 East 58th Street
   New York, NY 10022
   (212) 355-6545

9. Golden Door Productions
   Tenth and Parker
   Berkeley, CA 94710
   (415) 849-3571

10. Harlem Hospital Sickle Cell Center
    506 Lenox Avenue
    New York, NY 10037
    (212) 491-8076

11. Harvard University Press
    79 Garden Street
    Cambridge, MA 02138
    (617) 495-2600

12. Howard University Center for
    Sickle Cell Disease
    College of Medicine
    2121 Georgia Avenue, N.W.
    Washington, DC 20059
    (202) 636-7930

13. King-Drew Sickle Cell
    Center
    12012 Compton Avenue
    Suite 1-212 (I and R Building)
    Los Angeles, CA 90059
    (213) 603-3166

14. March of Dimes Birth Defects
    Foundation
    1275 Mamaroneck Avenue
    White Plains, NY 10605
    (914) 428-7100

15. March of Dimes Birth Defects
    Foundation
    Los Angeles County Chapter
    1111 South Cent Avenue
    Glendale, CA 91204
    (818) 349-1080
133 East 58th Street
New York, NY
(516) 349-1080

17. Medcom, Inc.
12601 Industry St.
Garden Grove, CA 92641
(800) 223-2505

18. Milner-Fenwick, Inc.
2125 Greenspring Drive
Timonium, MD 21093
(800) 638-8652
(301) 252-1700

4221 Wilshire Boulevard
Suite 360
Los Angeles, CA 90010-3503
(213) 936-7205
(800) 421-8453

20. North Carolina Department of Human Resources
Division of Health Services
Maternal and Child Care Section
Developmental Disabilities Branch
Genetic Health Care Unit
Raleigh, NC 27602
(919) 733-4261

Sickle Cell Center
San Francisco General Hospital
1001 Potrero Avenue, Rm. 6B9
San Francisco, CA 94110
(415) 821-4761

22. Office for Medical Applications of Research
National Institutes of Health
Building 1, Room 216
(301) 496-1143

23. National Center for Education in Maternal and Child Health
38th and R Streets, N.W.
Washington, DC 20057
(202) 625-8400

24. PBS Video
1320 Braddock Place
Alexandria, VA 22314-1698
(703) 739-5000
(800) 424-2964

25. PSG Publishing Company, Inc.
545 Great Road
Littleton, MA 01460
(617) 486-8971

26. Sickle Cell Anemia Research and Education, Inc.
(S.C.A.R.E.)
330 41st Street
Oakland, CA 94609
(415) 547-6965

27. Sickle Cell Awareness Group of Greater Cincinnati, Inc.
3595 Washington Avenue
Cincinnati, OH 45229
(513) 281-4450

28. Sickle Cell Disease Branch
National Heart, Lung, and Blood Institute
National Institutes of Health
Federal Office Building
Bethesda, MD 20205
(301) 496-6931

29. Sickle Cell Disease Research
1334 Haight Street
San Francisco, CA 95117
(415) 626-8334

30. Sickle Cell Society, Inc.
Medical Center East Building
Suite 742
211 North Whitfield Street
Pittsburgh, PA 15206-9990
(412) 441-6116

31. Toronto Institute of Medical Technology
Media and Instructional Services
222 Patrick Street
Toronto, Ontario M5T IV4
(416) 596-3101
32. University of Illinois Medical Center  
   Comprehensive Sickle Cell Center  
   1919 West and Taylor Street  
   Chicago, IL 60612  
   (312) 996-7013

33. Virginia Sickle Cell Awareness Program  
   Medical College of Virginia  
   Richmond, VA  23298  
   (804) 804-0503

34. Comprehensive Sickle Cell Center  
   Wayne State University  
   Children's Hospital of Michigan  
   3901 Beaubien Boulevard  
   Detroit, MI  48201  
   (313) 577-1546
APPENDIX B

Comprehensive Sickle Cell Centers - September 1986

CALIFORNIA

Comprehensive Sickle Cell Center
University of Southern California
School of Medicine
2025 Zonal Avenue
Los Angeles, CA 90033
L. Julian Haywood, M.D., Director
(213) 226-7116

Comprehensive Sickle Cell Center
University of California
San Francisco General Hospital
1001 Potrero Avenue
San Francisco, CA 94110
William C. Mentzer, M.D., Director
(415) 821-5169

DISTRICT OF COLUMBIA

Comprehensive Sickle Cell Center
Howard University College of Medicine
2121 Georgia Avenue, NW
Washington, DC 20059
Roland B. Scott, M.D., Director
(202) 636-7930

GEORGIA

Comprehensive Sickle Cell Center
Medical College of Georgia
Department of Cell and Molecular Biology
Augusta, GA 30912
Titus H.J. Huisman, Ph.D., D.Sc., Director
(404) 828-3091

ILLINOIS

Comprehensive Sickle Cell Center
University of Illinois Medical Center
1919 West Taylor Street
Chicago, IL 60612
Maurice F. Rabb, M.D., Director
(312) 996-7013

MASSACHUSETTS

Comprehensive Sickle Cell Center
Boston City Hospital
818 Harrison Avenue, FGH-2
Boston, MA 02118
Lillian E.C. McMahon, M.D., Director
(617) 424-5727

MICHIGAN

Comprehensive Sickle Cell Center
Wayne State University School of Medicine
Children's Hospital of Michigan
3901 Beaubien Boulevard
Detroit, MI 48201
Charles F. Whitten, M.D., Director
(313) 577-1546

NEW YORK

Comprehensive Sickle Cell Center
College of Physicians & Surgeons
Columbia University
630 West 168th Street
New York, NY 10032
Sergio Piomelli, M.D., Director
(212) 305-5998

NORTH CAROLINA

Comprehensive Sickle Cell Center
Duke University Medical Center
Box 3934
Morriss Building
Durham, NC 27710
Wendell F. Ross, M.D., Director
(919) 684-3724

OHIO

Comprehensive Sickle Cell Center
Children's Hospital Research Foundation
Elland and Bethesda Avenues
Cincinnati, OH 45229
Donald Rucknagel, M.D., Director
(513) 559-4543
APPENDIX C

Sickle Cell Screening and Education Clinics - September 1986

ALABAMA

North Center Sickle Cell Foundation
Jefferson County Sickle Cell Clinic
1025 South 18th Street, Ground Floor
Birmingham, AL 35205
Sharon B. Lewis, M.P.H.,
Executive Director
(205) 933-8704

GEORGIA

Sickle Cell Foundation of Georgia, Inc.
2391 Benjamin E. Mays Drive, S.W.
Atlanta, GA 30311
D. Jean Brannan, Project Director
(404) 755-1641

INDIANA

Martin Center, Inc.
Sickle Cell Program
3549 North College Avenue
Indianapolis, IN 46205
Sister Jane Schilling,
Project Director
(317) 927-5150

MARYLAND

Association for Sickle Cell Services--Education, Research and Treatment, Inc.
(ASSERT)
Lower Park Heights
Multipurpose Center, Room 204
3039 Reisterstown Road
Baltimore, MD 21215
Carolyn Boston, Project Director
(301) 578-1800

MISSOURI

Metro Community Health Center, Inc.
Genetic Disease Program
2730 N. Grand Boulevard
St. Louis, MO 63106
Ronald G. Hill, Project Director
(314) 531-0113

NEW YORK

Long Island Jewish-Hillside Medical Center Sickle Cell Program
Queens Hospital Center Affiliation
8268 - 164th Street
Queens, NY 11432
Wanda Jones-Robinson,
Project Director
(212) 990-3291

NORTH CAROLINA

Association for Sickle Cell Disease for Charlotte-Metroline, Inc.
Medical Center, Suite #320
915 South Independence Boulevard
Charlotte, NC 28202
Peggy H. Beckwith, Executive Director and Project Administrator
(704) 332-4184

Operation Sickle Cell, Inc.
513 Murchison Road
Fayetteville, NC 28301
Mary E. McAllister,
Project Director
(919) 483-0514

44
- 41 -
OHIO

The American Sickle Cell Anemia Association
10300 Carnegie Avenue
Cleveland, OH 44106
William True, Project Director
(216) 229-8600

ECCO Family Health Center
1166 East Main Street
Columbus, OH 43205
Gwendolyn Macon, Project Director
(614) 253-0861

Drew Sickle Cell and Other Genetic Diseases
184 Salem Avenue, Suite 227
Dayton, OH 45406-5804
Al Thompson, Project Director
(513) 223-4612

Grace B. Myers Clinic
426 Lincoln Park Circle
Springfield, OH 45505
Gwendolyn Bellamy, Executive Director
(513) 325-0464

Ohio Sickle Cell and Health Association (OSCHA)
1393 East Broad Street
Columbus, OH 43205
Judith Watkins, Contact Person
(614) 252-1090

PENNSYLVANIA

Sickle Cell Society, Inc.
Medical Center East, Suite 170
211 North Whitfield Street
Pittsburgh, PA 15206
Ruth M. White, M.S.W., Project Director
(412) 441-6116

SOUTH CAROLINA

Committee on Better Racial Assurance
Sickle Cell Program
PO Box 2154 - 54 Morris Street
Charleston, SC 29403
Bill Saunders, Project Director
(803) 792-3711

TENNESSEE

MeHarry Medical College
Sickle Cell Center
1005 Dr. D.B. Todd Jr. Boulevard
Nashville, TN 37208
Ernest Turner, M.D.
Project Administrator
(615) 327-6763

TEXAS

Sickle Cell Anemia Foundation of Dallas
401 Wynnewood Professional Building
Suite 205
Dallas, TX 75224
Arnold Hider, M.S.W., Executive Director
(214) 942-1262

Sickle Cell Disease Foundation of Texas, Inc.
2410 Hamilton Street, Suite 210
Houston, TX 77004
Darnelle D. Pinkard, M.S.W., Executive Director
(713) 651-8071

VIRGINIA

Virginia Sickle Cell Anemia Awareness Program
Medical College of Virginia
MCV Station Box 158
1215 East Marshall Street
Richmond, VA 23298
Project Director
(805) 786-0503

NOTE: The listing of screening and education clinics is an update of information in the 1983 edition of this bibliography. For more information about sickle cell clinics in your area, contact your Public Health Office or State Genetic Service Coordinator.
Regional Medical Libraries

Seven Regional Medical Libraries, each responsible for a geographic area, coordinate NLM's online search services in the United States. These libraries also handle requests for health literature not available locally, and pass on to the NLM requests they cannot fill. To find out the nearest online center, or how your institution can become a center, write to the Regional Medical Library for your area.

Region I
Greater Northeastern Regional Medical Library Program (CT, DE, MA, ME, NH, NJ, NY, PA, RI, VT, and Puerto Rico)
The New York Academy of Medicine
2 East 103rd Street (212) 876-8763
New York, NY 10029

Region II
Southeastern/Atlantic Regional Medical Library Services (STARS) (AL, DC, FL, GA, MD, MS, NC, SC, TN, VA, WV and the Virgin Islands)
University of Maryland
Health Sciences Library (301) 528-2855
111 South Greene Street (800) 638-6093 outside MD
Baltimore, MD 21201

Region III
Greater Midwest Regional Medical Library Network (IA, IL, IN, KY, MI, MN, ND, OH, SD, WI)
University of Illinois at Chicago
Library of the Health Sciences (312) 996-2464
P.O. Box 7509
Health Sciences Center
Chicago, IL 60680

Region IV
Midcontinental Regional Medical Library Program (MCRML) (CO, KS, MO, NE, UT, WY)
University of Nebraska (402) 559-4326
Medical Center Library (800) MED-RML4
42nd and Dewey Avenue
Omaha, NE 68105-1065

Region V
South Central Regional Medical Library Program (TALON) (AR, LA, NM, OK, TX)
University of Texas (214) 688-2085
Health Science Center at Dallas
5323 Harry Hines Boulevard
Dallas, TX 75235
Region VI  Pacific Northwest Regional Health Sciences Library Service  
(PNRHSLS)  
(AK, ID, MT, OR, WA)  
Health Sciences Library  
University of Washington  
Seattle, WA  98195  
(206) 543-8262

Region VII  Pacific Southwest Regional Medical Library Service (PSRMLS)  
(AZ, CA, HI, NV, and U.S. Territories in the Pacific Basin)  
UCLA Biomedical Library  
Center for the Health Sciences  
Los Angeles, CA  90024  
(213) 825-1200
APPENDIX E

Selected Databases Available On The Medlars Network

AVLINE (Audiovisuals Online) contains citations to over 14,000 audiovisual teaching packages covering a wide range of subject areas in medicine, dentistry, nursing, allied health, and other disciplines. In some cases, descriptive review information such as rating, audience levels, instructional design, specialties, and abstracts is included. Procurement information on titles is provided.

BIOETHICSLINE contains bibliographic citations to documents which discuss ethical questions arising in health care or biomedical research. It is a comprehensive, cross-disciplinary collection of references to both print and nonprint materials. Among the publication types included in the database are journal and newspaper articles, monographs, analytics, court decisions, and audiovisual materials. The database contains over 19,000 citations from 1973 to date. Citations in BIOETHICSLINE appear also in the Bibliography of Bioethics, an annual publication of the Center for Bioethics, Kennedy Institute of Ethics, Georgetown University.

CATLINE (Catalog Online) contains about 600,000 references to books and serials catalogued at NLM. CATLINE gives medical libraries in the network immediate access to authoritative cataloging information and thus reduces the need for these libraries to do their own original cataloging. Libraries also find this database a useful source of information for ordering books and journals and for providing reference and interlibrary loan services.

DIRLINE (Directory of Information Resources Online) contains information on over 15,000 resource centers and can be used as a referral service to locate information not readily obtainable from the bibliographic or factual databases. Included in each record is the organization name, address, scope of coverage, and types of services provided. The file is updated quarterly.

MEDLINE contains approximately 800,000 references to biomedical journal articles published in the current and preceding three years. An English abstract, if published with the article, is included. The articles are from 3200 journals published in the United States and in foreign countries. Coverage of previous periods (back to 1966) is provided by backfiles totaling some 5,000,000 references and searchable online.

MEDLINE can also be used to update a search periodically. The search formulation is stored in the computer and each month, when new references are added to the database, the search is processed automatically and the results mailed from NLM.
POPLINE (Population Information Online) is a bibliographic database citing the literature in the areas of family planning, fertility control, population and reproduction. The POPLINE file contains citations and abstracts to a variety of materials including journal articles, monographs, technical reports, and unpublished works. POPLINE currently contains approximately 133,000 citations. The majority of the items were published from 1970 to the present, but there are selected citations dating back to 1886. The database increases by about 10,000 citations annually and is updated monthly.

SERLINE (Serials Online) contains bibliographic information for about 60,000 serial titles, including all journals which are on order or cataloged for the NLM collection. For many of these, SERLINE has locator information for the user to determine which United States medical libraries own a particular journal. SERLINE is used by librarians to obtain information needed to order journals and to refer interlibrary loan requests.

TOXLINE (Toxicology Information Online) is a bibliographic database of over 1.7 million references covering the pharmacological, biochemical, physiological, environmental, and toxicological effects of drugs and other chemicals. Almost all references in TOXLINE have abstracts and/or indexing terms and Chemical Abstracts Service (CAS) Registry Numbers.
APPENDIX F

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