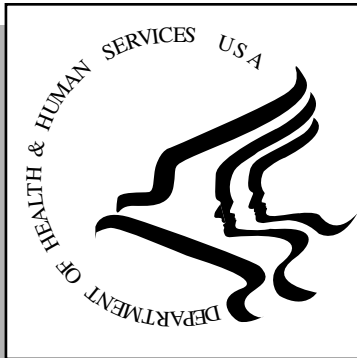
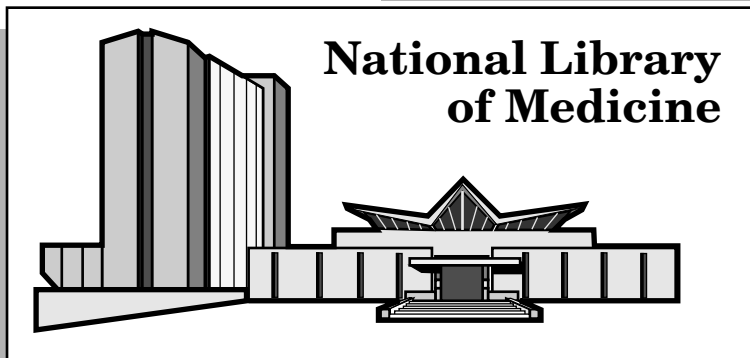


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Prepared by

Karen Patrias, M.L.S.

2000 September

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## FOREWORD

The Visible Human Project<sup>®</sup> was formulated in response to the National Library of Medicine 1986 Long-Range Plan that challenged NLM staff to investigate the concept of an electronic image library. The Visible Human Data Sets are complete, anatomically detailed, three-dimensional data sets which allow the computer reconstruction of any part of the normal male and female bodies. The data sets consist of transverse CT, MRI, and cryosection images.

The Visible Human Data Sets may be used without charge, but a license with the NLM is required. In return for use of the data sets, the user must credit the NLM in any derived product and must send a copy of the product to the NLM. Many data set users display their products and research on their Web sites and have notified the Library of their availability. The NLM has created links to these user sites from its own Visible Human Project Web site at [http://www.nlm.nih.gov/research/visible/visible\\_human.html](http://www.nlm.nih.gov/research/visible/visible_human.html). This provides an access point to applications, sources, products, tools, and mirror sites using images from the Visible Human Project. The Visible Human Project has become an open, community-based project. It is in this spirit that NLM created this Visible Human Project bibliography.

This bibliography is being made available in conjunction with the Third Visible Human Conference. It contains citations to the published literature that we have been able to identify through August 2000. Omissions and corrections would be appreciated as well as notification of new Visible Human Project related publications.

I would like to thank the over 1,400 Visible Human Data Set license holders in 42 countries, each of whom has added to the success of this Project.

Michael J. Ackerman, Ph.D.  
Visible Human Project  
Project Officer  
September 25, 2000

## INTRODUCTION

The Visible Human Project has its roots in a 1986 long-range planning effort of the National Library of Medicine (NLM). It foresaw a coming era where NLM's bibliographic and factual database services would be complemented by libraries of digital images, distributed over high speed computer networks and by high capacity physical media. Not surprisingly, it saw an increasing role for electronically represented images in clinical medicine and biomedical research. It encouraged the NLM to consider building and disseminating medical image libraries much the same way it acquires, indexes, and provides access to the biomedical literature. Early in 1989 under the direction of the Board of Regents, an ad hoc planning panel was convened and made the following recommendation: "NLM should undertake a first project building a digital image library of volumetric data representing a complete, normal adult male and female. This Visible Human Project will include digitized photographic images for cryosectioning, digital images derived from computerized tomography and digital magnetic resonance images of cadavers."

The initial aim of the Visible Human Project was to acquire transverse CT, MRI, and cryosection images of a representative male and female cadaver at an average of one millimeter intervals. The Visible Human Male data set consists of MRI, CT, and anatomical images. Axial MRI images of the head and neck and longitudinal sections of the rest of the body were obtained at 4 mm intervals. The CT data consists of axial CT scans of the entire body taken at 1 mm intervals. The anatomical cross-sections are at 1 mm intervals to coincide with the CT axial images. There are 1871 cross-sections for each mode. The complete male data set, 15 gigabytes in size, was made available in November 1994. In August 2000 higher resolution axial anatomical images from the male data set were made available.

The Visible Human Female data set, released in November 1995, has the same characteristics as The Visible Human Male with one exception. Its axial anatomical images were obtained at 0.33 mm intervals instead of 1.0 mm intervals. This resulted in 5,189 anatomical images and a data set of about 40 gigabytes. For more information on the Visible Human Project, see the Web site at <http://www.nlm.nih.gov/research/visible/>

This bibliography was prepared in support of the The Third Visible Human Project Conference held on October 5 - 6, 2000 in Bethesda, MD. It is an attempt to identify all publications in the scientific and technical literature which discuss the Visible Human Project and its derivative products. Citations to journal articles, books and book chapters, conference papers and meeting abstracts, and audiovisuals are included. The arrangement of the bibliography is alphabetical by first author. An author index provides access to the publications of all authors by citation numbers.

The compiler wishes to thank the staff of the Visible Human Project office for their very valuable assistance.

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