

CBM 93-2

ORTHOTICS, PROSTHETICS, & MOBILITY AIDS

January 1989 through June 1993

2316 Citations

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1993

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*Use of funds for printing this periodical has been approved by the Director
of the Office of Management and Budget through September 30, 1993.*

ORTHOTICS, PROSTHETICS, & MOBILITY AIDS

Of the 43 million Americans with disabilities, approximately 38 per cent have mobility limitations. More than 2 million use wheelchairs for mobility. Individuals with health conditions such as mental retardation, spinal cord injury, stroke, cancer, myocardial infarction, orthopaedic impairments, and arthritis may also have mobility restrictions. Now and in the future a larger proportion of the population will be candidates for ambulation aids of various types. Parallel with this increasing demand is the development of new technologies and materials in other fields that have the potential to contribute to improved mobility devices. As rehabilitation researchers begin to explore the science of and ways to improve human mobility, a number of new paradigms will emerge advancing ambulation aids as well as their use.

A conference on "Prosthetic/Orthotic Research for the Twenty-first Century" was held in Bethesda, MD in July 1992. The purpose of the conference was to bring together clinicians, researchers, and consumers to discuss potential research areas. This bibliography was prepared as a result of discussion at that conference.

The bibliography surveys English and foreign language literature from January 1989 through June 1993 discussing artificial limbs, orthotic devices, neuroprostheses, wheelchairs, walkers, canes, crutches, and other devices or technologies such as computers, robotics, functional electrical stimulation, and myoelectric devices to aid in mobility. Some earlier articles are included in the historical section. Journal articles, books, book chapters, technical reports, conference proceedings and reports, dissertations, theses, and audiovisuals are included. Arrangement of the bibliography is by subject and format. Most categories are listed alphabetically by author, and citations may be indexed to more than one category. The audiovisuals section is arranged alphabetically by title. Some categories have been further subdivided to highlight areas such as use, design, and clinical effectiveness. An appendix of national organizations is provided at the end of the bibliography.

The term "prosthetics" as used in this bibliography denotes artificial limbs and does not include what are called implanted prosthetics such as total knee or total hip replacements, or other devices such as cochlear implants, penile prostheses, or heart prostheses. This resource document is intended to facilitate research on the topic of ambulation aids and is not exhaustive in scope.

SEARCH STRATEGY

A variety of online databases are usually searched in preparing bibliographies in the CBM series. To assist you in updating or otherwise manipulating the material in this search, the strategy used for the NLM's MEDLINE database is given below. Please note that the search strategies presented here differ from individual demand searches in that they are generally broadly formulated and irrelevant citations edited out prior to printing.

- SS 1 = ARTIFICIAL LIMBS OR EXP ORTHOTIC DEVICES OR WHEELCHAIRS OR WALKERS OR CANES OR CRUTCHES
- SS 2 = (TW) NEURAL AND ALL PROSTHE: OR ALL NEUROPROSTH:
- SS 3 = (TW) ALL PROSTHETIST: OR ALL ORTHOTIST:
- SS 4 = EXP PARALYSIS OR EXP SPINAL CORD INJURIES
- SS 5 = EXP ELECTRIC STIMULATION
- SS 6 = (TW) ALL PROSTHETIST: OR ALL ORTHOTIST:
- SS 7 = AMPUTEES OR EXP AMPUTATION OR AMPUTATION STUMPS OR AMPUTATION, TRAUMATIC
- SS 8 = EXP PROSTHESIS OR PROSTHESIS DESIGN OR PROSTHESIS-RELATED INFECTIONS OR PROSTHESIS FAILURE
- SS 9 = EXP CYBERNETICS OR ROBOTICS OR EXP COMPUTERS
- SS 10= 4 OR 7
- SS 11= 5 AND 10
- SS 12= 8 OR 9
- SS 13= 10 AND 12
- SS 14= 9 AND EXP DISABLED
- SS 15= 9 AND REHABILITATION (SH) OR 9 AND EXP REHABILITATION
- SS 16= 1 OR 2 OR 3 OR 6 OR 11 OR 13 OR 14 OR 15

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SAMPLE CITATIONS

Citations in this bibliographic series are formatted according to the rules established for *Index Medicus*^{®*}. Sample journal and monograph citations appear below. For journal articles written in a foreign language, the English translation of the title is placed in brackets; for monographs, the title is given in the original language. In both cases the language of publication is shown by a three letter abbreviation appearing at the end of the citation. Note also that a colon (:) may appear within an author's name or article title. The NLM computer system automatically inserts this symbol in the place of a diacritical mark.

Journal Article:

Authors *Article Title*

Press JM, Wiesner SL. Prevention: conditioning and orthotics.
Hand Clin 1990 Aug;6(3):383-92.

Abbreviated Journal Title *Date* *Volume* *Issue* *Pages*

Monograph:

Authors/Editors *Title*

Shurr DG, Cook TM. Prosthetics & orthotics.
Norwalk (CT): Appleton & Lange; 1990. 225 p.

Place of Publication *Publisher* *Date* *Total No. of Pages*

Audiovisual:

Title *Media Type* *Place of Publication*

Shake, rattle & roll: wheelchair dancing [videocassette]. Greenville (NC):
East Carolina University, Center for Health Sciences Audiovisual
Communication; 1989. 1 videocassette: sound, color, 1/2 in.

Publisher *Date* *Physical Description*

*For details of the formats used for references, see the following publication:

Patrias, Karen. *National Library of Medicine recommended formats for bibliographic citation*.
Bethesda (MD): The Library; 1991 Apr. Available from: NTIS, Springfield, VA; PB91-182030.

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ORTHOTICS, PROSTHETICS, & MOBILITY AIDS

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- Transfer techniques [videocassette]. Garden Grove (CA): Medcom/Trainex; 1990. 2 videocassettes: sound, color, 1/2 in. (Professional skills for the new nursing assistant). Credits: Judith Eighmy, Muriel Greensaft, et al., consultants.
- Turning and transferring the patient: good body mechanics are essential [videocassette]. Grisell J. [Houston]: University of Texas Health Science Center at Houston, School of Nursing; 1991. 1 videocassette: 13 min., 30 sec., sound, color, 1/2 in. Credits: Lisa Greenbaum, content expert.
- The use of upper extremity prostheses [videocassette]. [United States]: Art Heinze; 1988. 1 videocassette: 49 min., sound, color, 1/2 in.
- Wheelchair inspection and cleaning [videocassette]. Austin (TX): Texas Department of Mental Health and Mental Retardation, Richmond State School, Staff Development; 1992. 1 videocassette: 7 min., sound, color, 1/2 in. Accompanied by: 1 guide.
- Wheelchair use and safety [videocassette]. Austin (TX): Texas Department of Mental Health and Mental Retardation, Richmond State School, Staff Development; 1992. 1 videocassette: 11 min., sound, color, 1/2 in. Accompanied by: 1 guide.

APPENDIX OF ORGANIZATIONS

AFTER Rehabilitation and Training Center for Limb Birth Deficiencies/Amputations

8408 W. McNab Rd.
Tamarac, FL 33321
Tel. (301) 721-1140

American Academy of Neurological and Orthopaedic Medicine and Surgery

737 N. Michigan Ave., Suite 108
Las Vegas, NV 89102-4592
Tel. (702) 385-6886

American Academy of Orthotists and Prosthetists

1650 King St., Suite 500
Alexandria, VA 22314
Tel. (703) 836-7118

American Academy of Physical Medicine and Rehabilitation

122 South Michigan Ave., Suite 1300
Chicago, IL 60603 (publishes *Archives of Physical Medicine and Rehabilitation*)
Tel. (312) 922-9366

American Academy of Podiatric Sports Medicine (AAPSM)

1729 Glastonberry Rd.
Potomac, MD 20854
Tel. (301) 424-7440

American Amputee Foundation (AAF)

Box 250218, Hillcrest Station
Little Rock, AR 72225
Tel. (501) 666-2523

American Association for Hand Surgery (AAHS)

2934 Fish Hatchery Rd., Suite 210
Madison, WI 53713
Tel. (608) 273-8940

American Board for Certification in Orthotics and Prosthetics (ABC)

1650 King St., Suite 500
Alexandria, VA 22314
Tel. (703) 836-7114

American Board of Orthopaedic Surgery

737 N. Michigan Ave., Suite 1150
Chicago, IL 60611
Tel. (312) 664-9444

American Board of Physical Medicine and Rehabilitation

c/o Dr. Gordon M. Martin
Norwest Center, Suite 674
21 First St., SW
Rochester, MN 55902
Tel. (507) 282-1776

American Burn Association (ABA)

c/o Andrew M. Munster, M.D.
Baltimore Regional Burn Center
Francis Scott Key Hospital
4940 Eastern Ave.
Baltimore, MD 21224
Tel. (800) 548-2876

American College of Foot Surgeons (ACFS)

444 N. Northwest Hwy., Suite 155
Park Ridge, IL 60068
Tel. (708) 292-2237

American Diabetes Association

1660 Duke St.
Alexandria, VA 22314 (publishes *Diabetes*)
Tel. (703) 549-1500, (800) 232-3472

American Occupational Therapy Association (AOTA)

1383 Piccard Dr., P.O. Box 172
Rockville, MD 20849-1725 (publishes *American Journal of Occupational Therapy*)
Tel. (301) 948-9633

American Orthotic and Prosthetic Association (AOPA)

1650 King St., Suite 500
Alexandria, VA 22314 (publishes *Journal of Prosthetics and Orthotics*)
Tel. (703) 836-7116

American Paralysis Association

500 Morris Ave.
Springfield, NJ 07081
Tel. (201) 379-2690, (800) 526-3456

American Physical Therapy Association

1111 North Fairfax St.
Alexandria, VA 22314 (publishes *Physical Therapy* and *Clinical Management in Physical Therapy*)
Tel. (703) 684-2782, ext. 3212

American Podiatric Medical Association

9312 Old Georgetown Rd.
Bethesda, MD 20814 (publishes *Journal of the American Podiatric Association*)
Tel. (301) 571-9200

American Society for Hand Therapists (ASHT)

1002 Vandora Springs Rd., Suite 101
Garner, NC 27529
Tel. (919) 779-ASHT

American Society for Surgery of the Hand (ASSH)

3025 S. Parker Rd., Suite 65
Aurora, CO 80014
Tel. (303) 755-4588

American State of the Art Prosthetic Association

1156 15th St., NW, Suite 1100
Washington, DC 20005
Tel. (202) 659-2909

American Wheelchair Bowling Association (AWBA)

N54 WI5858 Larkspur Ln.
Menomonee Falls, WI 53051
Tel. (414) 781-6876

Amputee Coalition

6300 N. River Rd.
Rosemont, IL 60018
Tel. (708) 698-1628

Amputee Shoe and Glove Exchange (ASGE)

P.O. Box 27067
Houston, TX 77227

Amputee Sports Association, Inc.

P.O. Box 60129
Savannah, GA 31420-0129
Tel. (912) 927-5406

Amputees in Motion (AIM)

P.O. Box 2703
Escondido, CA 92033
Tel. (619) 454-9300

Association of Academic Physiatrists (AAP)

7100 Lakewood Bldg., Suite 112
5987 E. 71st St.
Indianapolis, IN 46220 (publishes *American Journal of Physical Medicine and Rehabilitation*)
Tel. (317) 845-4200

Association of Children's Prosthetic-Orthotic Clinics (ACPOC)

222 S. Prospect Ave.
Park Ridge, IL 60068 (publishes *Journal of the Association of Childrens Prosthetic-Orthotic Clinics*, which includes their annual proceedings)
Tel. (708) 698-1694

Association of Rehabilitation Nurses

5700 Old Orchard Rd., 1st Floor
Skokie, IL 60077 (publishes *Rehabilitation Nursing*)
Tel. (708) 966-0050

Biomedical Engineering Society (BMES)

P.O. Box 2399
Culver City, CA 90231
Tel. (213) 618-9322

Foundation for Hand Research (FHR)

310 E. 30th St.
New York, NY 10016
Tel. (212) 685-3834

Institute of Electrical and Electronics Engineers (IEEE)

345 E. 47th St.
New York, NY 10017
Tel. (212) 705-7900

Institute of Rehabilitation and Research

Information Service Center
1333 Moursund
Houston, TX 77030
Tel. (713) 797-5947

International Association of Orthotists and Prosthetists

108, rue Prince Baudouin
B-1080 Brussels, BELGIUM
Tel. 2 4269966

International Federation of Societies for Surgery of the Hand (IFSSH)

c/o Miguel Vargas Busquest, M.D.
165 E. Mendez Vigo St.
Mayaguez, PR 00680
Tel. (809) 833-3248

International Society for Prosthetics and Orthotics (ISPO)

Borgervaenget 5 (publishes *Prosthetics and Orthotics International*)
DK-2100 Copenhagen, DENMARK

International Stoke Mandeville Wheelchair Sports Federation

Hayward House
Barnard Crescent
Aylesbury, Bucks. HP21 9PP, ENGLAND
Tel. 844 436179

International Wheelchair Aviators (IWA)

c/o Bill Blackwood, Sec.
1117 Rising Hill Way
Escondido, CA 92029
Tel. (619) 746-5018

International Wheelchair Road Racers Club (IWRRC)

c/o Joseph M. Dowling, Pres.
30 Myano Ln., Box 3
Stamford, CT 06902
Tel. (203) 967-2231

March of Dimes Birth Defects Foundation

1275 Mamaroneck Ave.
White Plains, NY 10605
Tel. (914) 428-7100

National Amputation Foundation (NAF)

12-45 150th St.
Whitestone, NY 11357
Tel. (718) 767-0596

National Association of Orthopaedic Nurses (NAON)

North Woodbury Rd., Box 56
Pitman, NJ 08071 (publishes *Orthopaedic Nursing*)
Tel. (609) 582-0111

**National Center for Medical Rehabilitation Research
National Institute of Child Health and Human Development**

Executive Plaza South, Room 450
Bethesda, MD 20892-9904
Tel. (301) 402-2242

National Diabetes Information Clearinghouse

Box NDIC
Bethesda, MD 20892
Tel. (301) 468-2162

National Foundation of Wheelchair Tennis (NFWT)

940 Calle Amanecer, Suite B
San Clemente, CA 92672
Tel. (714) 361-6811

National Handicapped Sports (NHS)

4405 East-West Hwy., Suite 603
Bethesda, MD 20814
Tel. (301) 652-7505

National Institute for Burn Medicine (NIBM)

909 E. Ann St.
Ann Arbor, MI 48104
Tel. (313) 769-9000

National Institute of Arthritis and Musculoskeletal and Skin Diseases

Information Office
Building 31, Room 4C05
9000 Rockville Pike
Bethesda, MD 20892
Tel. (301) 496-8188

National Institute on Aging

Information Office
Building 31, Room 5C27
9000 Rockville Pike
Bethesda, MD 20892
Tel. (301) 496-1752

National Institute on Disability and Rehabilitation Research**Department of Education**

Mary E. Switzer Building
Washington, DC 20202-2572
Tel. (202) 205-9151

National Rehabilitation Association

633 South Washington St.
Alexandria, VA 22314-4193 (publishes *Journal of Rehabilitation Administration*)
Tel. (703) 836-0850

National Rehabilitation Information Center (NARIC)

8455 Colesville Rd., Suite 935
Silver Spring, MD 20910 (produces *NARIC* database)
Tel. (301) 588-9284, (800) 34-NARIC

National Scoliosis Foundation

72 Mt. Auburn St.
Springfield, NJ 07081
Tel. (617) 926-0397

National Spinal Cord Injury Association

600 W. Cummings Park, Suite 2000
Woburn, MA 01801
Tel. (617) 935-2722

National Wheelchair Athletic Association (NWAA)

3595 E. Fountain Blvd., Suite L-1
Colorado Springs, CO 80910
Tel. (719) 574-1150

National Wheelchair Basketball Association (NWBA)

Univ. of Kentucky
110 Seaton Bldg.
Lexington, KY 40506-0219
Tel. (606) 257-1623

National Wheelchair Softball Association (NWSA)

1616 Todd Ct.
Hastings, MN 55033
Tel. (612) 437-1792

Osteogenesis Imperfecta Foundation

c/o Vonnie H. Coleman
5005 W. Laurel, Suite 210
Tampa, FL 33607-3836
Tel. (813) 855-7077

Paralyzed Veterans of America (PVA)

801 18th St. NW
Washington, DC 20006
Tel. (202) 872-1300

Prosthetics Research Study

720 Broadway, 3rd Floor
Seattle, WA 98122
Tel. (206) 328-3116

Rehabilitation Engineering Society of North America (RESNA)

1101 Connecticut Ave., NW, Suite 700
Washington, DC 20036 (publishes *Assistive Technology Journal* and *RESNA Proceedings*)
Tel. (202) 857-1199

Rehabilitation Research and Development Service

Office of Technology Transfer (110A1)

Veterans Administration Prosthetics Research and Development Center

103 South Gay St.
Baltimore, MD 21202 (publishes *Journal of Rehabilitation Research and Development*, its *Supplements*, and annual *Rehabilitation R&D Research Progress Reports*)
Tel. (410) 962-1800

Scoliosis Research Society

222 South Prospect
Park Ridge, IL 60068
Tel. (312) 698-1627

United Cerebral Palsy Associations

Seven Penn Plaza, Suite 804
New York, NY 10001
Tel. (212) 268-5962, (800) USA-1UCP

Wheelchair Motorcycle Association (WMA)

101 Torrey St.
Brockton, MA 02401
Tel. (508) 583-8614

Wheelchair Tennis Players Association (WTPA)

940 Calle Amanecer, Suite B

San Clemente, CA 92672

Tel. (714) 361-6811