1986 YEAR BOOK OF

ORTHOPEDICS®

COVENTRY

The Year Book of ORTHOPEDICS®

Editor

Mark B. Coventry, M.D., M.S.

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Year Book Medical Publishers, Inc. Chicago • London

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Printed in U.S.A.

International Standard Book Number 0-8151-1887-2 International Standard Serial Number: 0276-1092

The editor for this book was Steven Berman, and the production manager was H. E. Nielsen. The Editor-in-Chief for the YEAR BOOK series is Nancy Gorham.

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Journals Represented

Acta Orthopaedica Scandinavica

Acta Radiologica (Diagnosis) (Oncology)

American Journal of Medicine

American Journal of Roentgenology

American Journal of Sports Medicine

Annales Chirurgiae et Gynaecologiae

Annals of Plastic Surgery

Annals of Rheumatic Diseases

Annales Orthopédiques de l'Ouest

Archives of Orthopedic and Traumatic Surgery

British Journal of Plastic Surgery

British Journal of Radiology

Canadian Journal of Surgery

Chirurg

Clinical Orthopaedics and Related Research

Clinical Pediatrics

Contemporary Orthopedics

Foot and Ankle

Infections in Surgery

Injury

Indian Journal of Surgery

International Orthopaedics

Journal of the American Medical Association

Journal of Bone and Joint Surgery (American vol.)

Journal of Bone and Joint Surgery (British vol.)

Journal de Chirurgie

Journal of Dermatologic Surgery and Oncology

Journal of Hand Surgery (American)

Journal of Nuclear Medicine

Journal of Orthopaedic Research

Journal of Pediatric Orthopedics

Journal of the Royal College of Surgeons of Edinburgh

Journal of Trauma

Journal of the Western Pacific Orthopaedic Association

Mayo Clinic Proceedings

Orthopaedic Review

Orthopedics

Pediatrics

Physician and Sportsmedicine

Plastic and Reconstructive Surgery

Radiology

Revue de Chirurgie Orthopedique et Reparatrice de l'Appareil Moteur

Scandinavian Journal of Plastic and Reconstructive Surgery

Skeletal Radiology

Southern Medical Journal

Introduction

The concept of reviewing the literature in a medical specialty and then selecting the best of the articles for commentary is unique to the YEAR BOOK series. The success of this idea is attested to by the YEAR BOOKS' popularity among orthopedists and other medical practitioners. Are you doing research on a particular diagnostic problem, or do you have a surgical procedure scheduled? The subject can usually be found in the YEAR BOOK (which includes an index of all the topics covered). The editorial staff at Year Book Medical Publishers does more than prepare abstracts of the articles selected. Essentials, often in detail, are included in the digests, which are usually accompanied by editorial comments written by specialists in the field. An article is selected by the YEAR BOOK OF ORTHO-PEDICS editor or one of his many able associates in the special areas of orthopedics. Then it is sent to Year Book Medical Publishers, where the digest is prepared by one of a team of medical writers. The copyedited digest is then returned to the editor, along with the other digests for the edition, so that the editor can put the digests in final topic and chapter sequence. After the editorial staff has edited the final manuscript and after the production staff has had the material typeset, proofread, and printed, the YEAR BOOK is ready for distribution.

You will notice in the 1985 and 1986 editions of the Year Book of Orthopedics that some format changes were made by our publishers. We would be interested in whether you like this format better than the previous one. I must say it took me awhile to adjust to it, but as the year has gone by, I have found the isolation of the reference information as a discrete block of copy increasingly appealing. As our publisher said last year, "We will continue to alter the Year Book to be in touch with its readers and to do everything possible to improve our presentations to you." For you, gentle reader, are the essence of our efforts! We wish to hear your comments.

Once again, I thank my colleagues at the Mayo Clinic and Foundation and elsewhere who have been so helpful in providing you with the perceptive critical comments of the digested articles. And I thank all those in our publisher's offices who are so effective in making the YEAR BOOK what it is.

Mark B. Coventry, M.D., M.S.

1 Pediatrics

Farm Accidents in Children

Thomas H. Cogbill, Henry M. Busch, Jr., and Gary R. Stiers (Gundersen Clinic/ La Crosse Lutheran Hosp., La Crosse, Wis.)

Pediatrics 76:562-566, October 1985

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A review was made of 105 children hospitalized because of trauma occurring on farms in a 6½-year period through mid-1984. Household accidents and accidental poisonings were excluded. The 77 boys and 28 girls had a mean age of 10½ years. The most frequent causes of injury were a fall from a horse, an accident with farm machinery, a tractor mishap, horse or cow assault, and a wagon accident. Injuries were most frequent in the summertime. The average hospital stay was 6 days. Eleven percent of children had an Injury Severity Score of 25 or higher. Orthopedic and neurologic injuries were most frequent. A total of 118 surgical procedures were done in 74 patients. Orthopedic and hand operations were most frequent. Significant hospital morbidity occurred in 12% of patients. There was one death, and one survivor had major long-term disability.

Farm accidents occur in a surprisingly large number of children. Toddlers are most prone to injury from a fall or animal assault, and older children more often have injury from falling off a horse or a tractor accident. These injuries can best be prevented by effective parent and child counseling. The curricula of rural schools should include classes in the proper operation of farm machinery. More stringent safety requirements for manufacturing farm equipment would be helpful, although the installation of safety devices does not assure their use. Lower insurance premiums for graduates of safety classes might provide an incentive.

▶ Injuries sustained on farms and in particular in association with farm machinery often involve multiple body organs and produce life-long disability. Children are particularly susceptible to these injuries, both as bystanders and as participants in the farming activity, and their injuries may be associated with abnormalities of growth when extremities are involved. This article and the one that follows it in Volume 76 of *Pediatrics* (Rivara, F. P.: *Pediatrics* 76:567–673, October 1985) draw timely attention to the magnitude of the problem and the severity of the disabilities. They also offer suggestions for preventing such injuries.—H.A. Peterson, M.D.

Nonunion of Long Bone Fractures in Children: A Review of 30 Cases

Richard P. Lewallen and Hamlet A. Peterson (Mayo Clinic and Found.) J. Pediatr. Orthop. 5:135–142, March–April 1985

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