

PREFACE

The work underlying this publication was carried out during my many years in the Department of Orthopaedic Surgery T-3 of the Gentofte Hospital, Copenhagen, Denmark, where I first served as junior registrar, then as extraordinary research fellow for 2½ years, under a grant from the Danish Medical Research Council, and finally as senior registrar.

While working on the treatment of ligament ruptures in the knee joint, inspired by my chief, P. Thestrup Andersen, M.D., I came to realize that the results of treating the various types of instability caused by such ruptures could best be evaluated scientifically by objective measurement in physical units. I, therefore, started developing such a method.

In the course of this work Dr. Thestrup Andersen gave me constant support and encouragement, not only theoretical, but certainly also practical, by procuring for me facilities, good working conditions, and a large material of patients. Such patients assembled in the Department because of his well-known, special interest in this field. He also participated, as a clinical adjudicator, in the blind, coded comparison of the various diagnostic methods. I owe him a debt of gratitude.

For assistance as clinical adjudicators I am indebted also to my then colleagues, T. Barfred, M.D., K. Skou Andersen, M.D., and Dr. Helle Hjorth Lorenzen. Dr. Barfred helped me, besides, by guidance and perusal when I was working out the first paper on this subject.

For kind help and guidance I am obliged to A. Rosenklint, Head of the Orthopaedic Radiographic Service, Department of Diagnostic Radiology, where facilities were placed at my disposal for carrying out a large part of the work.

To Lis Zachariae, M.D., thanks are due to good working conditions when later I came to her Department of Hand Surgery, Gentofte Hospital, as senior registrar.

Professor C. C. Arnoldi, M.D., Rigshospitalet, K. Jansen, M.D., Gentofte Hospital, and J. Saugmann-Jensen, M.D., Orthopaedic Hospital, Copenhagen, afforded help and guidance in perusing manuscripts.

My apparatus, the gonylaxometer, was produced in the Welding Institute of the Academy of Technical Sciences, Glostrup, where I enjoyed the valuable collaboration of A. Northeved, M.Sc. (Eng.) and P. Nordvang, M. Sc. (Eng.).

The Gentofte Hospital was a good workplace, with close contact between the departments. This was a great boon during my work. I have received assistance from the AV Centre in producing graphic material and from the Photographic Studio, especially Miss Mølgaard, who gave such excellent help

in producing the photographic illustrations. Miss J.O. Kay and Miss A. Elvers typed the Danish manuscript in their spare time.

For her hard work and ideal collaboration during the translation from the Danish into English my thanks are due to Mrs. Anna la Cour.

Statistical guidance was given, through the Danish Medical Research Council, by Bjørn Andersen, M.D. and by Leif Mortensen, M. Sc. (Eng.), Department of Statistics and Computer Analysis, Copenhagen County Hospital, Herlev, as well as by Erik Kousgaard, M. Sc. (Stat.).

My thanks go also to all the persons who volunteered as subjects in the study.

I have received important financial aid from the Danish Medical Research Council, partly in the form of a fellowship and in the expenses of developing the apparatus. The Danish Council for Sports Research and the Foundation for the Handicapped also contributed to the latter purpose.

But most of all my gratitude goes to my family for their support and patience during the many years of the study. I am, therefore, dedicating this book to my wife, Kirsten, and our sons Jørgen Henrik, Jacob, and Mår.

Copenhagen, May 1981.

Klaus Jacobsen.