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Dr. Gross became Head of the Division of Orthopaedic Surgery at Mount Sinai in 1973 and Chief of Surgery in 1975. He became Head of the Combined Orthopaedic Unit of the Toronto General Hospital and Mount Sinai Unit in 1982, and the A.J. Latner Professor and Chairman of the Division of Orthopaedic Surgery, University of Toronto, on July 1, 1986 to July 1996. Presently, he is a full time orthopaedic surgeon in the Division of Orthopaedics at Mount Sinai Hospital, and a Full Professor of the Department of Surgery at the University of Toronto. He holds the Bernard Ghert Chair in Lower Extremity Reconstructive Surgery.

In the early 1980's, revision arthroplasty of the hip arrived on the scene, and it soon became apparent that some revisions required restoration of bone stock. A Bone and Tissue Bank was established at Mount Sinai Hospital in Toronto in 1980, the largest hospital based tissue bank in Canada. The transplant programme at Mount Sinai Hospital continues to flourish for post-traumatic joint defects, revision arthroplasty of the hip and knee, and limb salvage following excision of bone tumours.

Dr. Gross has published 4 books, 60 chapters and 263 articles of which most are related to bone and cartilage transplantation and revision arthroplasty of the hip. He was an ABC Travelling Fellow in 1977, and is presently a member of the COA, AOA, and the Hip Society. He was the orthopaedic surgeon for the Toronto Blue Jays from 1981-2017 and was fortunate to be part of the World Series teams of 1992 and 1993.

He is known for his work on bone and cartilage transplantation for the use of posttraumatic joint defects, the largest international programme of its kind in the world. He has also made significant contributions in total hip revision arthroplasty where he has developed bone grafting techniques in combination with special instrumentation and implants for these difficult complex cases.