

招請講演 I

Limb Bends and Osteonecrosis in Divers

C. E. Lehner, Ph.D.

(Associate Scientist, University of Wisconsin-Madison, Medical School, Department of Preventive Medicine, U.S.A.)

Dysbaric osteonecrosis (DON) is a nontraumatic form of aseptic bone necrosis which afflicts divers, tunnel and caisson workers. DON typically occurs in the long bones where subchondral lesions can lead to juxtaarticular collapse, painful clinical symptoms, and serious disability in the affected individual. In some diver populations of Japan and United States, the prevalence of DON exceeds 50%. Ongoing collaborative research among Japanese and American laboratories has focused on Japanese diving fisherman in the Ariake Sea region of Kyusyu and on the University of Wisconsin sheep model of DON. With the sheep model of DON, we discovered that a single hyperbaric exposure can reliably induce DON and that prompt recompression treatment of limb bends can prevent the development of DON.

招請講演 II

National Differences and Similarities in the Practice of Hyperbaric Medicine

Leon J. Greenbaum, Jr., Ph.D.

(Undersea and Hyperbaric Medical Society, Kensington, MD., U.S.A.)

Information derived from most of the areas of the world where hyperbaric medicine is practiced will be reviewed and comparisons made. The criteria used for selecting specific illnesses or medical conditions to be treated will be compared, in addition to information about physician and technician training, financial reimbursement and physician attendance during treatment. The present status of treating difficult wounds with HBO in the United States will be discussed.