

Static and Transient Stress Analysis of Human Lower Extremity Bone under Impact Loading

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Abstract—Finite element (FE) modeling based on medical imaging is considered a very promising technique for the assessment of *in vivo* femoral bone strength. A finite element model of bones with accurate geometry and material properties retrieved from CT scan data are being widely used to make realistic investigations on the mechanical behavior of bone structures. In our present study we have create a model of real proximal human femur and tibia bone for evaluating the finite element analysis (FEA). Here, behavior of femur and tibia bone is analyzed in ANSYS® 11 under physiological static and impact loading conditions. The stress analysis of femur was performed only with prime moving muscle via abductor, ilio-tibial tract, iliopectus. Hence the mechanical analysis with heterogeneous material property of bone is varying with different loading condition. For tibia the load is applied in the middle portion perpendicular to shinbone by constrained the upper and lower end. This is mainly a quantitative study of static and transient stress analysis of human lower extremity bone. The result of this analysis is helpful for orthopedic surgeons for clinical interest.

Keywords: transient analysis, computed tomography, finite element analysis, femur

INTRODUCTION

It is well-established that mechanical testing is of paramount importance, not only in aerospace, civil engineering and the automotive industry, but also in health care. The field of biomedical research raises specific problems due to the fact that today's research may prove extremely expensive and that the modeling and simulation step saves time and money for conducting the live experimental clinical trial.

Hip fractures, the most devastating and costly unintentional injuries in the elderly are mostly associated with impact directly on the hip in lateral falls. Fall-related injury can either be reduced by decreasing the number of falls or by decreasing the severity of fall-related impacts. Since the number of falls presumably cannot be reduced to zero, insight are needed to arrest a fall with the minimum risk of injury. Lotz and Hayes suggested that energy absorbed during impact in lateral fall might be the dominant factor in the biomechanics of hip fracture rather than bone strength.

In recent past, to obtain more sophisticated evaluation of femoral fracture load, investigators used finite element (FE) models developed from computed tomographic (CT) scan and applied a dynamic or quasi-static force on femoral head to predict fracture load and with the same linear FE models, they predicted femoral fracture location and established the effect of force direction on femoral fracture load.

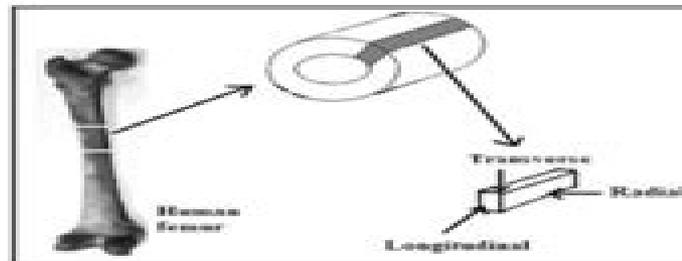


Fig. 1: Cross Sectional View of Femur Shaft

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Proceedings of the Society for Experimental Stress Analysis Society for Experimental Stress Analysis, 1979 Vol 1 no 1 contains Proceedings of the 17th or the last Eastern Photoelasticity Conference **Scientific and Technical Aerospace Reports** ,1971 **Finite Element Bibliography** Gerard De Vries, 1976-12 This bibliography had its inception in 1967 when the compilers first attempted a comprehensive coverage of the finite element literature using both manual and computer based retrieval Initially the data base was stored on a card index but this was subsequently transferred to punched cards and magnetic tape Computer processing was adopted at an early stage to derive the three index formats from the data base Over the subsequent years several versions of the bibliography were produced with two of these being made available in a report form to other researchers From the widespread interest in these documents it became evident that there was a need for a commercially available comprehensive bibliography in this area A major effort was undertaken to revise update and extend the data base resulting in this present volume The bibliography covers the period 1956 1975 primarily although some earlier publications of historical interest are included The citations are not restricted to the English language and documents are listed in many languages and from diverse places of origin All publication formats were accepted so that references will be found to books monographs journal papers and articles theses dissertations reports surveys and the like **Dissertation Abstracts International** ,2002 Conference Papers Index ,1987 *Aerospace Medicine and Biology* ,1987 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Bioengineering Abstracts** ,1982 **Physical Fitness/sports Medicine** ,1991 *INIS Atomindex* ,1988

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