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Design & Optimization of Biomaterial for Prosthetic Plate

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Bone fracture is one of the common traumas in today's medical field. The major challenge is to identify the suitable material of prosthetic plate and screws by the best combination of higher strength, lower weight, longer performance and reasonable cost implanted with fractured bone. Femur bone is considered a linear-elastic, isotropic and homogeneous material of calcium phosphate. It needs to support maximum weight of the body in between hip joint and knee joint during static loading condition. The objective of this study is to select the best suitable material of prosthetic plate and screws on the basis of strength and deformation for single and double fractured human femur bone at mid-shaft position in the presence of static loading. One of the most important steps in development of femur bone, prosthetic plate and screw generated with the help of products available in the market in Solidworks CAD software.

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