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**Basic research on Tendon repair-Technique, Strategies, and Development**  
**(experimental work on Chicken model)**

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Tendon is a fibro elastic structure that links muscle and bone. Injury or degeneration can cause loss of function and pain. The healing process of Tendon is extremely complex. Various techniques of Tendon repair have been studied, still the Tendon healing has not developed to mature clinical application stage as it still slow and the quality is unsatisfactory. Research has shown growth factor (TGF) -  $\beta$  and fibroblast growth factor promotes the synthesis of collagen in Tendons. Based on this experimental study was done on chicken model where Tendons were repaired by recognized techniques along with application of bone marrow fluid to see the efficacy of Tendon healing. The bone marrow fluid is supposed to contain the stem cells and other growth factors. Comparative study were evaluated at weekly intervals for 6 weeks. Histological studies of these repair Tendons were <sup>To be</sup> done. These studies are been done in Bihar Veterinary college under Bihar Animal Sciences University.

This study on the Tendon simulate the flexa tendon of the hand in human being and the control study is also being done. The result of the study will be completed in 3 months' time.