

CELLULAR TISSUE RESPONSE TO TEMPOROMANDIBULAR JOINT PROPLAST-TEFLON DISC IMPLANTS :MORPHOLOGICAL AND IMMUNOHISTOCHEMICAL STUDY

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ABSTRACT :

Several retrospective studies demonstrated that TMJ implants seemed to accelerate joint destruction as proved by FDA in 1990 .So , the current study was performed in an attempt to investigate the basic response of the tissue to failed TMJ proplast-teflon interpositional implants)PTIPI . (Thirteen patients underwent meniscectomy and disc replacement with Proplast-Teflon implants , and suffering from post-surgery pain , limited mouth opening , and joint noises that necessitated removal of the implants , were used for this study .It was shown that the PTIPI – induced lesions characteristically exhibited a large number of macrophages in the stroma of collagen – rich connective tissue .Animal experiments have shown also that PTIPI has the potential to induce destructive bony changes in operated joints based on reactive synovitis and massive infiltration of foreign body giant cells .Thus , it may be suggested that PTIPI is responsible for the destructive effect .However , mechanical stress seems important in the fragmentation of the implant and induction of the foreign body reaction too