
Adult Articular Cartilage Freeman Pitman

effect of age on adult articular cartilage at shoulder joint - nance, 1966; freeman, swanson, and kempson, 1969; mankin and lippello, 1970). the present study concerns the effect of ageing and of mild superficial fibrillation on the thickness of the uncalcified part of adult human articular cartilage. the study was made on cartilage from the upper end of the humerus: this articular cartilage **the submicroscopic structure of articular cartilage in the ...** - submicroscopic structure, articular cartilage, adult swine articular cartilage is an avascular, alymphatic and aneural tissue lining the articular bone surface. like other connective tissues it consists of cells - chondrocytes - deposited in an abundance of the intercellular matrix. **intra-articular injection of high-molecular hyaluronic acid** - knee joints of adult rabbits. histologically the articular cartilage was not affected by this treatment. the content of chondroitin sulphate, assessed by a histochemical method, was not altered and neither was the water content of the hyaline articular cartilage. on the other hand, **3d bioprinting for cartilage and osteochondral tissue ...** - zonal architecture present in many adult tissues such as articular cartilage. tissue engineered constructs typically lack such spatial complexity in cell types and tissue organization, which may explain their relatively limited clinical success to date. this has led to increased interest **a finite element methodology for representation of ...** - a finite element methodology for representation of articular cartilage structure ... brisbane, australia introduction articular cartilage is the translucent tissue which covers the ends of human and other mammalian bones. ... maroudas, alicia. adult articular cartilage, edited by m.a.r. freeman. london: pitman medical. pp. 215-290 1979. **0922 - calcium dependent and independent volume regulation ...** - important role in the health, turnover, and homeostasis of articular cartilage. with compression of the extracellular matrix, chondrocytes are exposed to ... maroudas a in: adult articular cartilage, freeman mar, tunbridge wells, 1979. [6] mobasher et al. hist and histop 13:893-910, 1998. [7] pierce sk **in situ electric field inside an indented articular cartilage** - for articular cartilage can be linearized as eqs. 1-4 with respect to the initial undeformed state. here ϕ and ψ are potential functions, e is the dilatation of the solid matrix, and γ is the dimensionless overall ionic concentration inside the tissue. the coefficients a 's are constants which **validation of articular cartilage tensile moduli from ...** - draining interface between the indenter tip and cartilage surface, and an impermeable, rigid substrate to which the cartilage was rigidly attached, represented the cartilage-subchondral bone interface. figure 1. specimen locations on the humeral head. validation of articular cartilage tensile moduli from **toward patient-specific articular contact mechanics** - articular cartilage is the connective tissue that lines the ends of bones in diarthrodial joints. cartilage serves as the bearing material whose primary function is to cushion the load transmission across joints while minimizing friction. adult articular cartilage is avascular and exhibits a limited ability to repair. consequently, cartilage **on the friction coefficient of synovial fluid in knee joint** - on the friction coefficient of synovial fluid in knee joint ... which provides low-friction and low-wear to articular cartilage ... a. reeman (ed.), adult articular cartilage, 2nd edn ... **increased knee cartilage volume in degenerative joint ...** - degenerative joint disease using percutaneously implanted, autologous mesenchymal stem cells from: *regenerative sciences inc ...* dr. freeman is with the oregon health sciences university and school of medicine, salem, or. ... models to regenerate articular cartilage and in human models to regenerate bone (15-28). of importance to **development and tribological characterisation of materials ...** - development and tribological characterisation of materials for the repair and regeneration of articular cartilage joão lima lopes, ct2m, isep - jll@isep.ipp ... adult articular cartilage. mar freeman ed., london 1979. 2nd edn: 415-160. 8. nicholson p, mulcahy d, cutin b, mcelwain jp. role of **copyright of action with mouse preosteoblast cells** - because there are no chondroprogenitor cells in normal adult articular cartilage [4]. the dying chondrocytes also produce and release growth factors [box 4]. growth factors induce the ... we followed freeman et al., [12], to plate in a tissue culture dish composed of twenty-four 1.9 cm² wells. this is known as a 24 well plate. **isb 2011 proceedings - international society of biomechanics** - properties of articular cartilage have been found to be altered due to the disruption of the surface. ... adult articular cartilage, m. freeman, editor. 1979, pitman medical publishing ltd: london. ... isb_2011_proceedings author: wping

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