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Effectiveness of Metal Implants for Cartilage Lesions in the Knee

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Abstract

The knee is the joint that most frequently results in impaired function and incapacity in the elderly. While unmistakable treatment by prosthetic substitution is many times performed late, suggestive knee ligament sores cause a lot enduring likewise in more youthful ages. As a result, early intervention could be implemented to the beneft of patients and society at large. Implants for resurfacing with a small metal surface have been tried, and the results look promising. A system with patient-specifc implants and surgical instruments has favourable survival rates and good clinical results. The purpose of this study is to compare this metal device to microfracture (MFX), which is the standard procedure in Sweden, in terms of cost-to-beneft.

Keywords: O e, a h i i ; K ee; Ca ilage le i, ; Me al im la ; Mic, f ac e

Introduction

O e a hii f he k ee (OA) i eme giga e f he m c mm ca e f diabili am g he eldel. Pii e ea me f k ee OA i i b i i a e me i g e i d f d amicall e a dig me a d glich. i e l i e i g f he i drid al a ella c f cie, a he mbe f k ee e laceme i a icia ed i c ea e b m e ha e f ld i hi e ea e eed f i e e i ea lie i he ce i ellf ded.

Ec ed le i f he fem al cailage a ea be he a ce f e a hii (OA). I i i al ci c m c i i e, mall le i i he a ic la cailage, i call l ca ed a he medial fem al c d le a c i a dair i addit all f MFX dia y i me . A deci i ee m del a c i a e a g e i a c e f gal ma e, e e all de i g y he de l me ha f c ed he ef cal le i [1-3]. A ge l ch d c e im la a i (ACI) a d a i cell ea me , i cl di g a f he e i d Mic, f ac e i ill he me h d f ch ice i s ea cha ac e i ic [4]. i ha medial ece challe ge.

Mic, f ac i gi ick, chea, a d ca bed ed i ga a h c b he a a ic la l me al embed ma c a ell a d Mic, f ac y i g, y y y y y y y y y y y y y y y gime lizac, e afel e ec UKA ill be ilized a e-ac ii addit all f MFX dia y i me . A deci i ee m del a ci i addit all f MFX dia y i me . A deci i ee m del a ci i addit all f MFX dia y i me . A deci i ee m del a ci i addit all f MFX dia y i me . A deci i ee m del a ci i addit all f MFX dia y i me . A deci i ee m del a ci i addit all f MFX dia y i me . A deci i ee m del a ci i addit all f MFX dia y i me . A deci i ee m del a ci i ac i i ac i ac i i addit all f MFX dia y i me . A deci i ee m del a ci i ac i i ac i ac i i addit all f MFX dia y i me . A deci i ee m del a ci i ac i i ac y c edi Mic, Ecel im la e he c e ca llage le i . i i k f dea h i ba ed age y a da dized m ali f S ede . em del a ada ed he S edi h e i ga d m di ed e ec he c m a i fa me al de ice MFX. Pa ie de he age ca dia e f hi me al de ice.

Pa ie i b h a m ca be cce f l c cce f la e he i i i i i ali i e e i , i h - e de a d e i ed a ie i cl ded i he la e ca eg . Pa ie b d a me ei agg ega ed KOOS

Paie i b ham ca be cce f l cce f l a e he i i i ali e e i, i ha e de a de i ed a ie i cl ded i hela e ca eg Paie b d im ei aggega ed KOOS (Kee I j a d O e a hi i O c me Sce) fam ba eli e a e cide ed e e de A hee ea a e hei i i ali e e i, a ie i b ham a e e al a ed f hel ime [8]. A hi ime, b h c de e i i a e a d e de a e i cl ded i he ca eg f a ie cide ed cce f l. O e e e e ea f cli i cal e e de a e i cl ded i he ca eg f e a c de e i i a e f 2.3% f he Me al a m ha bee e ed. Addi i all, he e ce age f e de (de ed a a cha ge i agg ega ed KOOSO i a c b f 75 ca e) a f d be

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Methods

em del a b. ke i eci eci alkedab

17 e ce a he 2- ea f ll - . 20 e ce f Me al a ie e e e e a i el a med be - ce f la h ee ea i de i cl de b h y f he e a ec i he m del.

L g-e m i e ma a i e f a ie e e a e a e a e eci e i e e i . I a l g-e m d ,75% f MFX e e e i eda e 15 ea . e e i a , -g i g de e i a i . I ie , f he a m delgi i g he , em , hi e ami a i , , e _ a c eci a e c i de ed d i g ea 3-15 f a ie h a e h gh, f a f i f l a 3 ea . I ead, e e MFX' e , ed l g-e m e i i da a a a , y f he , i , f a ie i h l g-e m i e ha e e all lead. OA. A eigh ed a e age f he da a f m , f he a e f di he li e a e ea ch h ha 30 e ce , f i i i all , cce f l a ie ha e l g-e m i e , 15 ea a e MFX. E me al im la , he i a i i likel , be di e e [9]. C ce a e , a malle ha c al me al gadge i h , malized c e ha e h high m di ca i a e i ce ai e ami a i e , -cha ged ca e h li le , f f k ee di i eg a i a d he me al c me f ll i g 12-ea e e acc , ed f i 2 ca e . Re i i e e c mm (42%) i a e i e f 64 ch l -ge e a i ca e ha e e f ll ed f 10 ea , b he e e e e i i a e 7 ea .

Discussion

We f dageae e e e ili cic m a ce f he me al gadge m e ha a 40-ea e i d fime, he c a ed i h MFX. A l gime a i yim, a f he a al i a dha bee ed i he a f he ame c e d e he fac ha he de l i gle i fe e l ha e a maic e i l g a d i call a ea ea l i life (be ee yhe age f 25 a d 30). He e e ygi e yha e fe c e medical ech l gie ha e bee i ef 40 ea , me a m i eed be made. e me al de ice i a c e ec i e ea me i a al alble l g-e m daa, b he he i e e i a d he c m a a , de i e he fac ha l g-e m m deli g ill i d ce ce ai i he e l . E c a d QALY e l , e a a e DSA a d NMB a al e e e ca i ed d e he d mi a c me [10]. e i i ial