

30°, 70° Endoscrub® MRI

(exo-phytic) 가 가 가

fibrin glue, CT, MRI 3

computer - assisted navigation system

punch biopsy 가 , encephalocele

computer - assisted navigation system 가 가

가 가 computer - assisted navigation system antrostomy . CT

MRI

술전 진단과 수술 동의

CT MRI 가 가 가

bony structure가 CT가 MRI가 CT 가

, 2

, gadolinium - enhancement 가

가 CT MRI 가 가

가 CT 가

가 (10~20%)
(synchronous
tumor, 5~15%) 가

중등도급 종양

(metachronous tumor) 가
13

(Inverted papilloma)

(multicentric origin) 가
가

10%

가

lateral rhinotomy, midfacial degloving,
Denker's approach

가

(human papilloma virus)가
"field tu-

내시경 종양수술

morization"

가

가

가

(geometric control)가

, CT, MRI

가

가

양성 종양

가

가

가

가

가

가

가

approach . CT
osteoplastic frontal
sinus surgery가 ,
, CT, 가 가
MRI 가
가
가
MRI . CT , 6
, 20 10
가
13
, , 가 , metachronous tumor 가
가 가
dysplasia 가 가
가
squamous metaplasia (Juvenile nasopharyngeal angiofibroma)
가 , dysplasia가 가
metachronous tumor 가 가 가
가
endoscopic medial maxillectomy 가 .
(capsule) 가
drilling
가 . dissection
가 Caldwell - Luc 's .

(infiltrative destruction)
pressional expansile growth)

(com-

악성 종양

가 가
가

(piecemeal)

가

가

가 ,

가 ,

(tumor implantation) 가

가

가

가

가

24
5

가

480 cc

6

1165 cc

cell - saver

가

, 가

가

clip

가

angled instrument,

, computer - assisted intraoperative navigation
system

(stereotaxic) 3

가 가

transpalatal,

(craniofacial resection, CFR)

lateral rhinotomy, midfacial degloving

resection 가

en bloc res-

5 - Fu

CFR

가

가

, olfactory neuroblastoma

가
 가 (local control)
 가 가
 가
 (, ,),
 (,), (, ,),
 (, ,)
 가 multidisciplinary approach가

결 론

가

중심 단어 :

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