

Remodeling of the Acetabular Rim after Arthroscopic Cam Plasty Treatment in the Borderline Dysplastic FAI Hip

- Hikata City Hospital, Hirakata, Japan
Hidetsugu Ohara, MD, Japan Presenting Author
Takashi Hida, MD, Japan, Gen Nakamura, MD, Japan
- Osaka Medical College. Takatsuki, Japan
Hitoshi Wakama

DISCLOSURE

Hidetsugu Ohara, MD

Takashi Hida , MD Gen Nakamura, MD Hitoshi Wakama.MD

We have no financial relationships to disclose.

INTRODUCTION

Post-operative remodeling of the femoral neck after FAI cam treatment has frequently been reported. But to our knowledge remodeling of the acetabular rim in the borderline dysplastic patient has not been studied. During follow up of our FAI cases we coincidentally recognized remodeling of the acetabular rim in a borderline dysplastic FAI patient.

KEY CASE

21y.o. female

CEA ; 24°

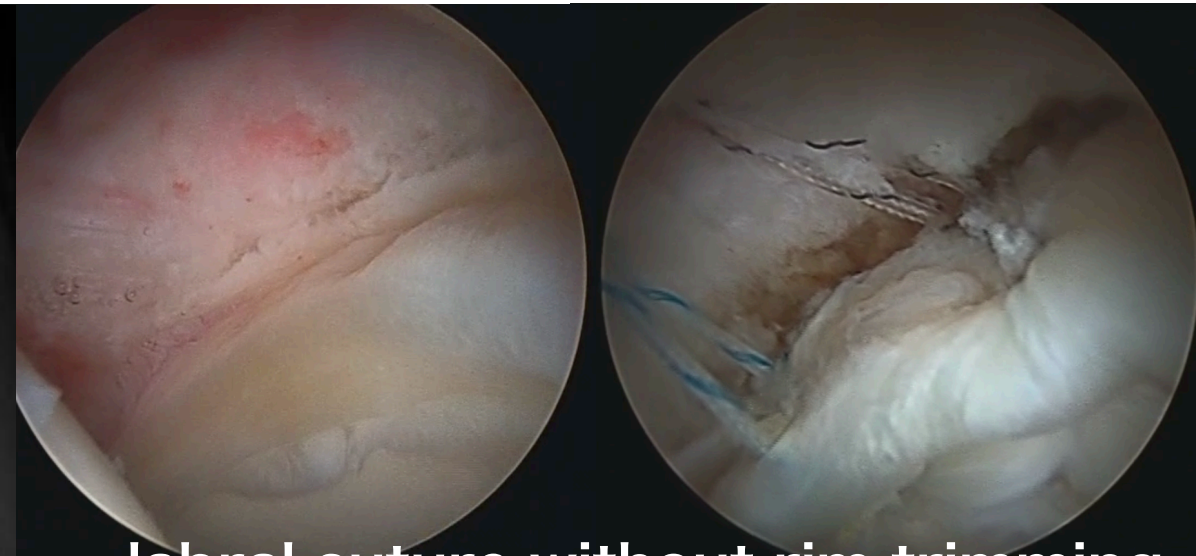
Tennis angle : 13°



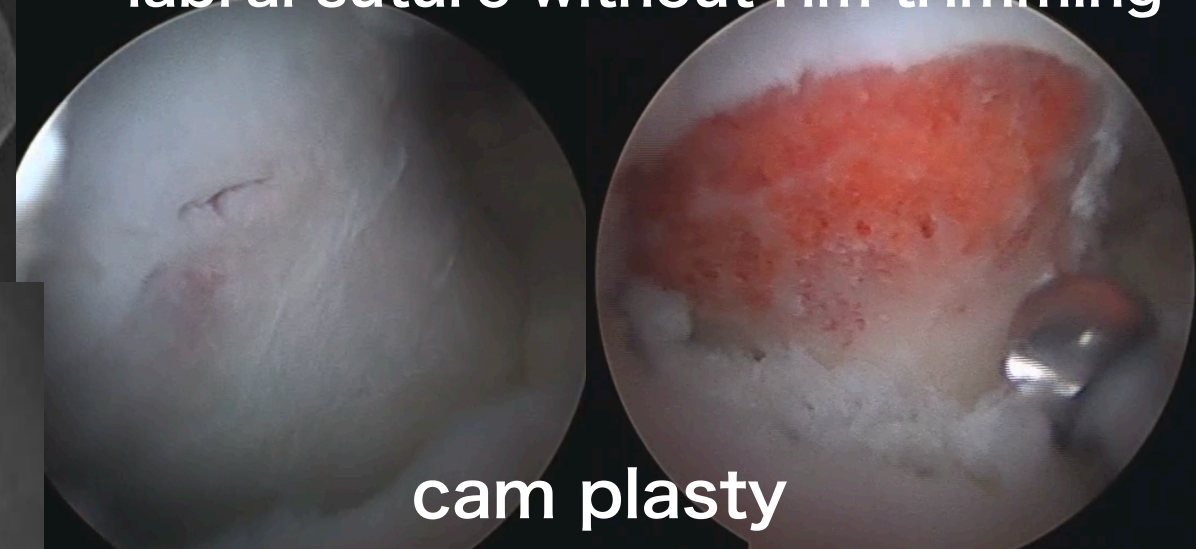
Pre-op. 21y.o.



Post op. 2y



labral suture without rim trimming



cam plasty



CEA	$21^{\circ} \rightarrow$	25°
TA	$15^{\circ} \rightarrow$	10°

Rim Remodeling!

METHOD

Evaluation :

Pre- and post- operative final follow up

1.Radiological:

- CE angle
- Tennis angede

2.Clinical:

- m-HHS

PATIENT

51 hips (49 cases)

✓ treated for FAI with borderline dysplasia (CE angle $< 25^\circ$) at our institute from 2011 to 2018
✓ follow up : > 1 year (mean 41 months)

Comparable pre- and post-operative AP view roentgenograms

29 hips

✓ male : female = 9:20

✓ 28.8 years (mean age)

✓ treatment:

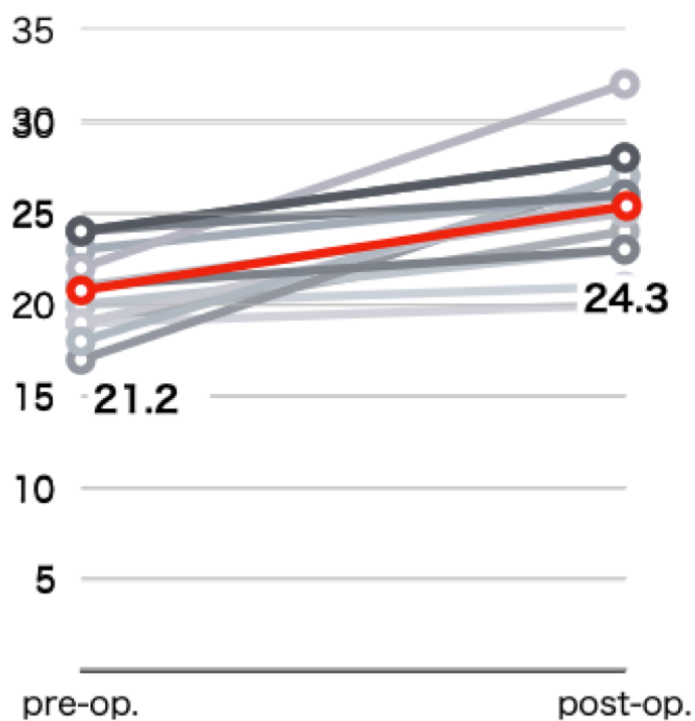
25 hips Combination of Cam plasty and or labral repair

4 hips Only labral repair

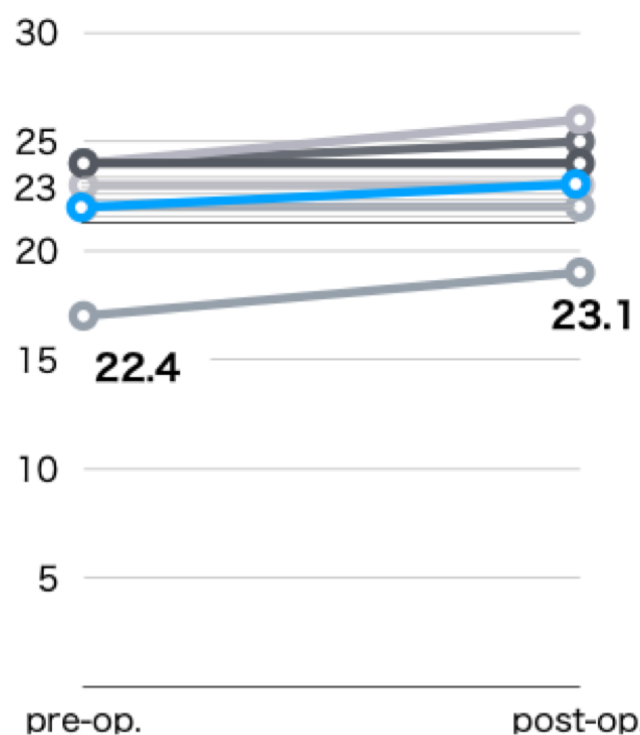
RESULT

LCEA

remodeling

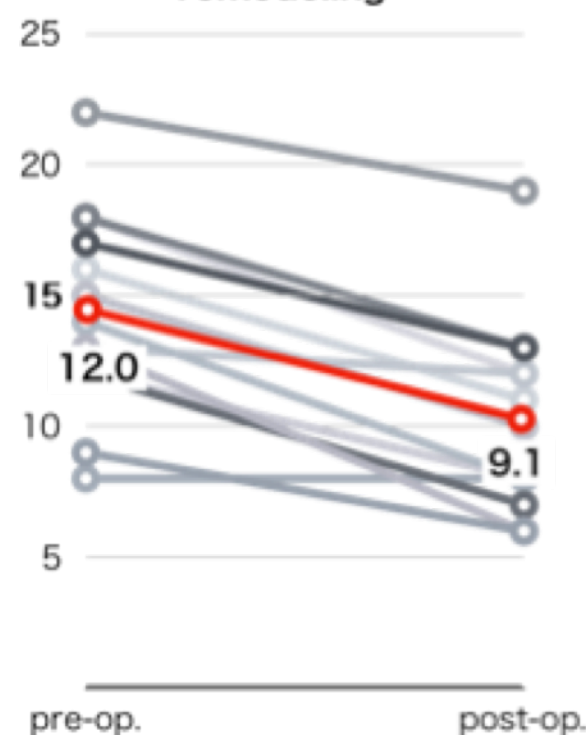


no-remodeling

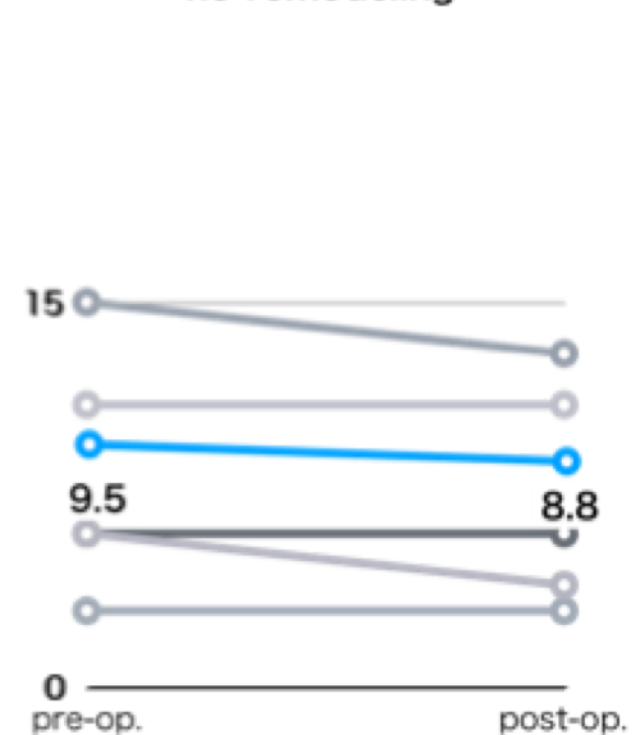


Tonnies angle

remodeling



no-remodeling



Clinical Outcome

follow up : >1 year (mean 41 months)

the mean m-HHS : 66 98

CONCLUSIONS

We observed a consistent increase in bony configuration of the acetabular rim after cam plasty treatment in the borderline dysplastic FAI hip. The cam plasty and treatment of FAI may have allowed for the **advantageous remodeling** of the dysplastic acetabulum.

