

Twenty years of experience with the use of screw-cups in hip arthroplasty



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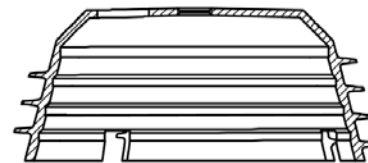
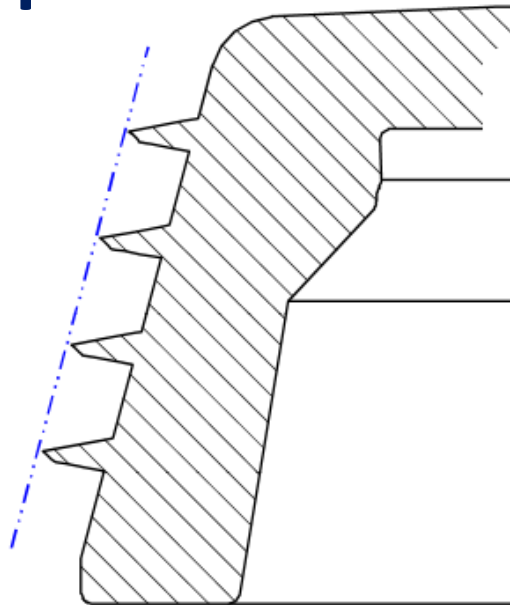
Screw-cups – why?



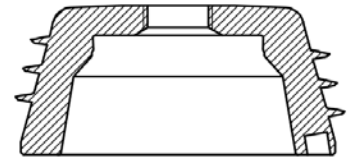
Excellent primary stability

97% - 15-20 years survive

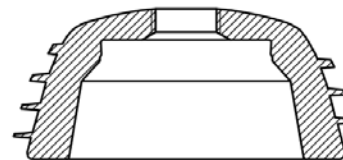
3-4 times larger contact area with bone than other type of cups



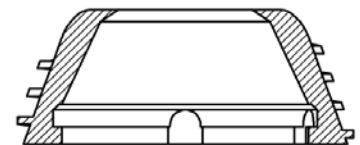
Cup A



Cup B



Cup C



Cup D

Screw cups – why?



Possibilities:

- Implantation in acetabulum with big bone defect
- Implantation with control „acetabular perforation” in difficult cases
- Good for revisions – „jumbo cup”
- Diversity of bearing options



Screw cups – why?



- Not allowed in USA
- Very Popular in many European Countries
- No wide acceptance in anglo-american countries
- Early loosening in spherical screw cups –
poor quality of surgical technique



Material



**3876 of THA and RHA was done
between 1994 – 2014**

527 cases was done with use of screw-cups

198 of DDH cases

329 of OA, trauma and other cases

23 RHA cases

Material



Screw-cups in use:

Conical: CSF, Varial – Sulzer/Zimmer (1994-2016)

Spherical: Schraubing S.C. – Aesculap (2009-2013)

Bearing: MoM - 298

CoC - 56

PoM - 87

PoC - 86



Results



The average inclination: 42,8 (36 - 64°)

The average anteversion: 8 (-2 - 16,2°)

<i>Etiology</i>	Idiopathic OA, AVN	RHA	DDH	Femoral neck fracture
<i>RTG inclination</i>	42,83 °	42,2 °	38,31 °	43,05 °
<i>RTG anteversion</i>	3,92 °	12,94 °	7,79 °	14,25 °

Results



Complications:

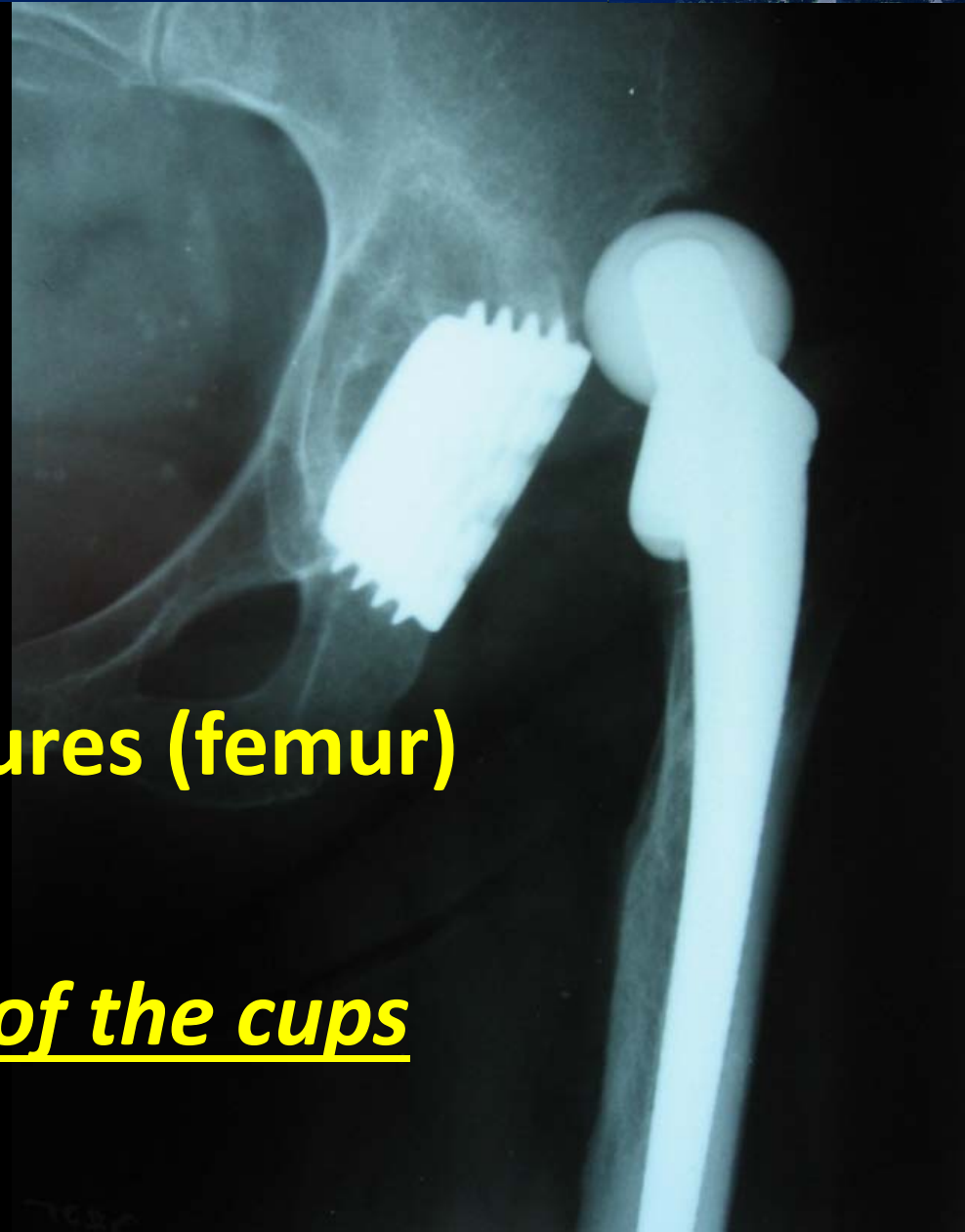
2 deep infections

3 dislocations

2 periprosthetic fractures (femur)

1 lymphoma

No aseptic loosening of the cups



Cases



B.A. 70 y.o.,
R A from 30 years.
3 years after C0-C3 spondylodesis
OA of both hips

Cases

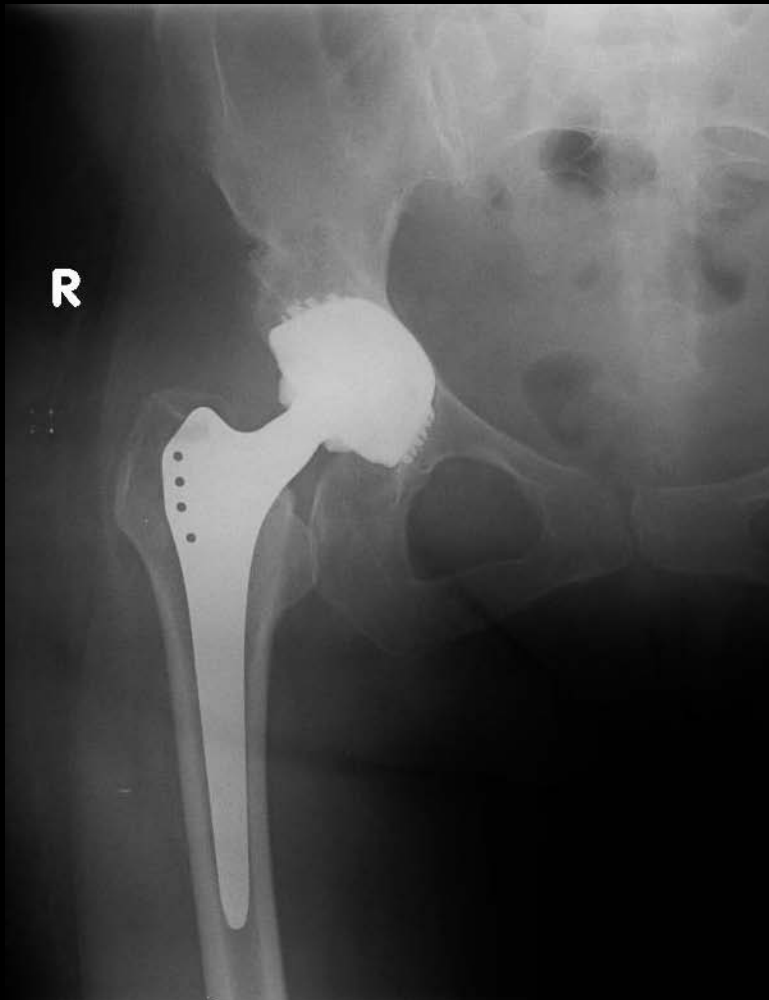


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F.G., 45 y.o.
DDH

Cases



F.G. 45 y.o.

On left THA - Variall/Alloclassic

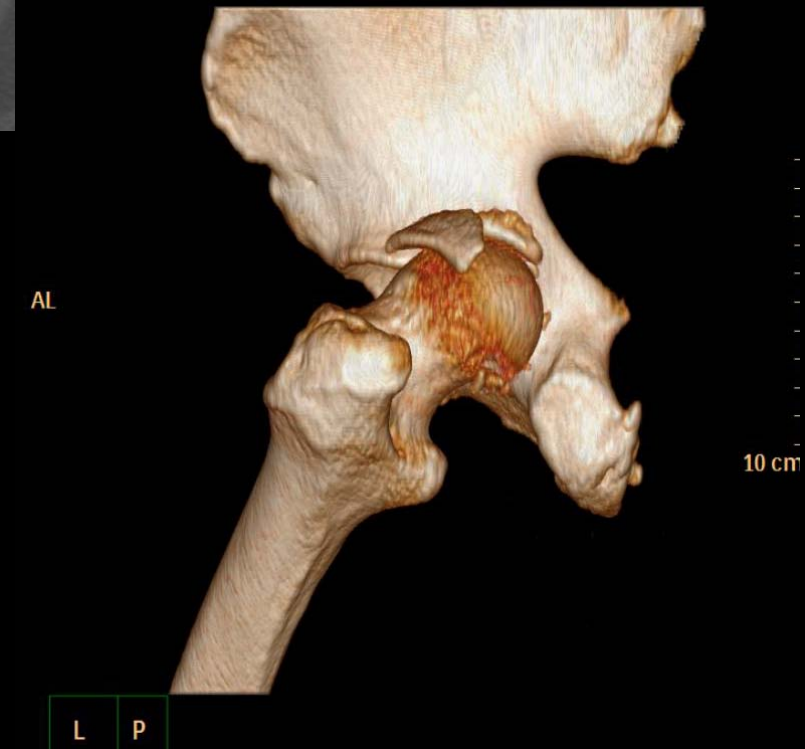
On right THA - Variall/Vagner

Cases



S.G. 41 y.o.
Pipkin 4 fracture on the left
SM

Cases



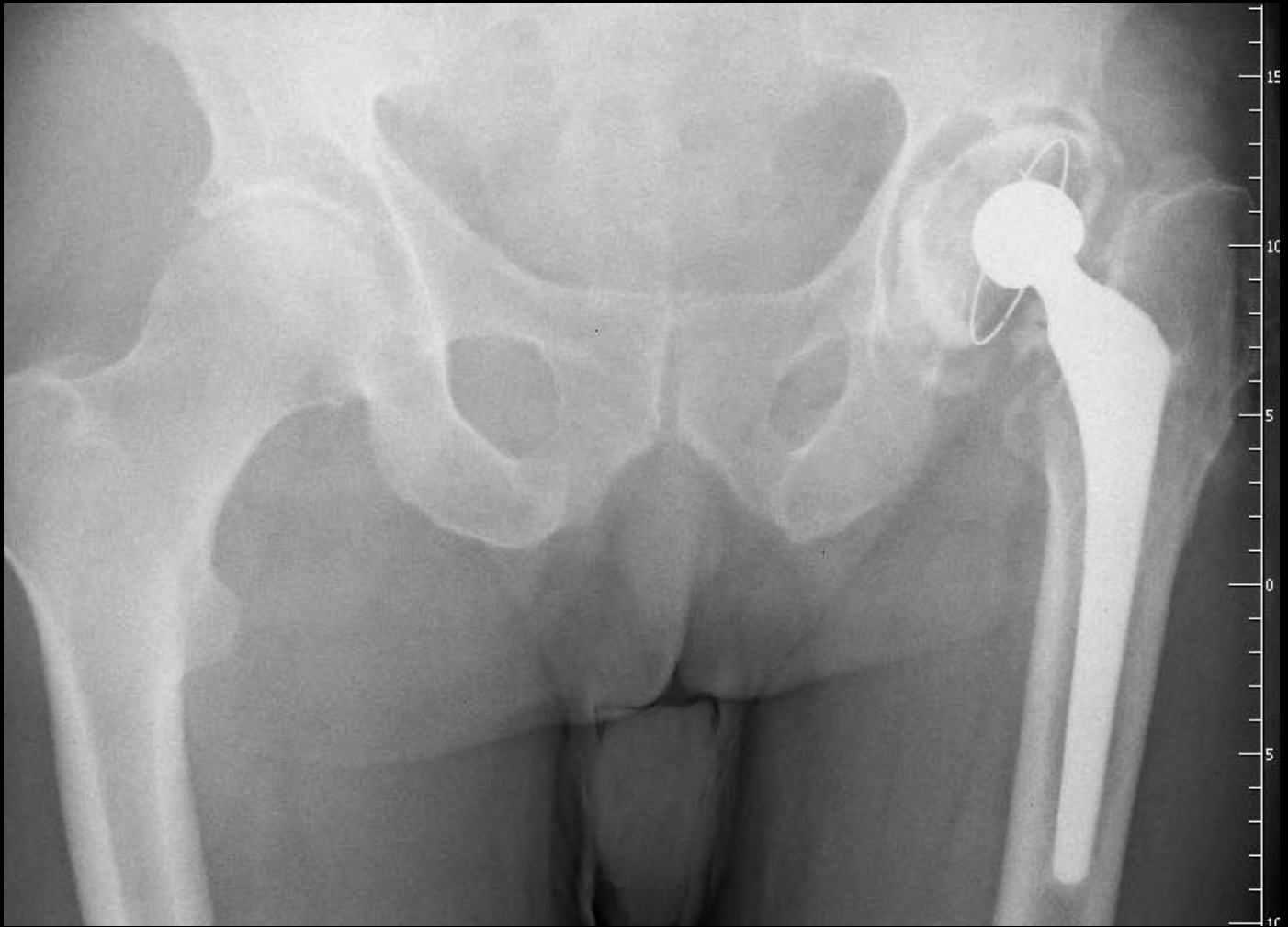
S.G. 41 y.o.
Pipkin 4 fracture on the left
SM

Cases



S.G. 41 y.o.
Pipkin 4 fracture on the left
SM
After THA - Variall/Alloclassic

Cases



S.K. 69 y.o.
8 years after RHA of left hip

Cases



S.K. 69 y.o.
After re re RHA - CSF

Take home message



Screw-cups:

Very good primary stability in technically difficult OA and trauma cases

An alternative to complex revision implants

In combination with MoM and CoC give very good long-term results

KNEE & ANKLE CURRENT CONCEPT KRAKÓW 2016

7–8 października 2016
www.ortopedia2016.pl



 Szpital
św. Łukasza



Thank you!

Hope to see you in Cracow!