

Zurich Cementless THR - news

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Room for improvement ?

- luxation (19mm heads for 29 and 32 cups)
- cup loosening, late (double shell; wear reduction)
- bony integration stem and cup (blood clot)
- infection – delivery of antibiotics via clot

Re. luxation



ø19mm, “BIG HEAD”



ø16mm (21,23 and 26 cups)

Re. luxation



increased (+15°, up to 135°) impingement free range

Re. cup loosening - double shell



Double shell; licensed from Scyon

Re. cup loosening - double shell



Re. cup loosening; poly wear

Diamond-like coating vs. TiN

- twice as hard on Vickers scale
- smoother surface
- lower coefficient of friction
- more stable in the body



Re. cup/stem loosening



Blood clot trays

Re. cup/stem loosening



Blood clot trays

Blood clot trays

- lyophobic implant coating
- means of controlled substance delivery
- blood/bone marrow - osteogenic

Status as of April 08

- ø19mm heads are available
- clot trays available by May of 2008
- double shell/Fossa[®] cup into clinical testing by June 2008
- diamond-like coating into wear and clinical testing by June 2008