



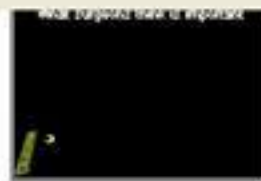
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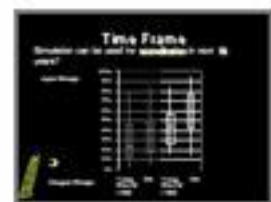
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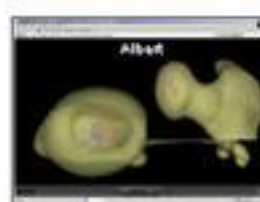
20



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24







Image Intensifier



Results**Surgeon:** **Patient: Albert****Reduction error:**

external rotation:	0°	100 % with 0 maladjustments
flexion:	0°	100 % with 0 maladjustments
abduction:	-3.4°	50 % with 0 maladjustments
impaction:	0mm	100 % with 0 maladjustments

Screw error:

posteriorly	-1 mm	90 %
inferiorly	13mm	35 %
short	2mm	93 %
absolute distance	13mm	35 %

Intercept with midpoint of femoral head

superiorly	10.4mm	48 %
anteriorly	-.4mm	96 %

Plate position is 1 mm proud 95 %**Skin incision is 148mm long** 79 %

and was changed 1 times 87 %

There were 1 misplaced drillholes 90 %

with a total depth of 33mm 91 %

7 xrays were taken 98 %

and the II was shifted 3 times

Reduction time was 0:27mins 100 %**Surgical time was 4:22mins** 85 %**II shifting time was 1:30mins** 100 %**Reduction Score** 87 %**Screw Score** 66 %**Time Score** 95 %**Rest Score** 90 %**Traction Misadjustments** 0**TOTAL SCORE 75%**[Submit to Hi Score Page](#)

Senior Registrars are better than Medical Students

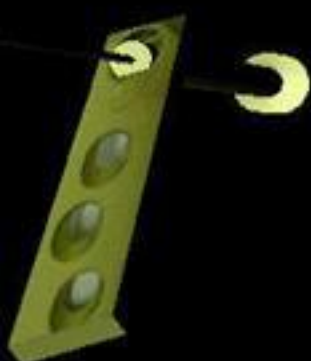


Senior Registrars are better than Medical Students

● Methods

- 3 groups Med Students, Junior and Senior Registrars
- Anonymous surgery
- 6 Patients

Albert, Bob, Charles, Daniel, Earnest, Fredrick



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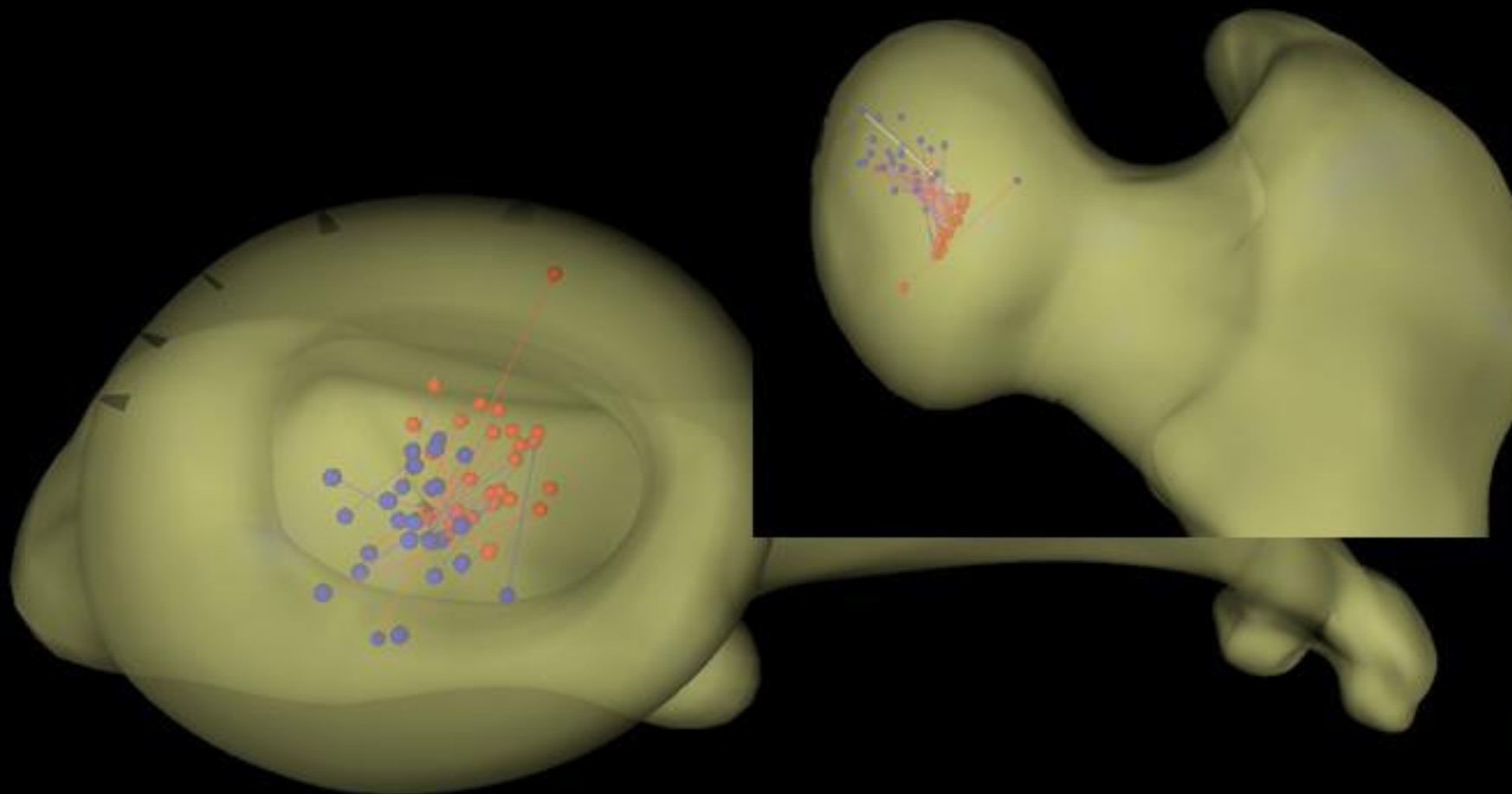
- **Methods**

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Albert



choose viewpoint

Are tired surgeons better than
drunk surgeons?



Are tired surgeons better than drunk surgeons?

Occup Environ Med 2000;57:649-655

649

Moderate sleep deprivation produces impairments in cognitive and motor performance equivalent to legally prescribed levels of alcohol intoxication

A M Williamson, Anne-Marie Feyer



"Performance after 18 hours of wakefulness is similar to that found at the legal limit for safe driving"

Conclusion

- What surgeons think is important
- May I see your scorecard
- Senior Registrars are better than Medical Students
- Are tired surgeons better than drunk surgeons?



Thanks



● Supervisors

- Sue Stott (Orthopaedics)
- Iain Anderson (Bioengineering)
- Peter Hunter (Bioengineering)

Thanks



Virtual Patients and Real Surgeons

Simulators



<http://homepage.nttworld.com/bleep/SimHist1.html>

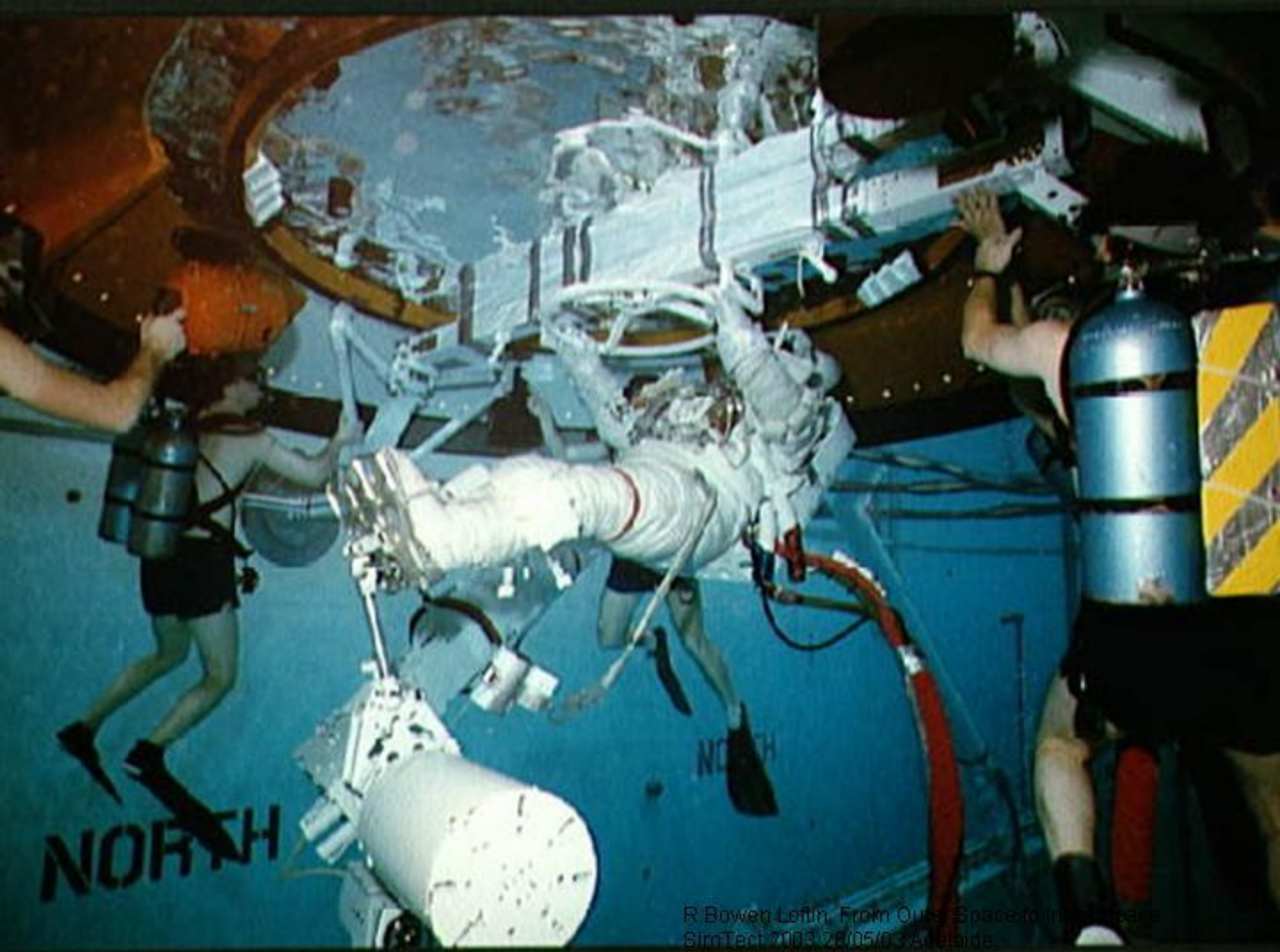
Virtual Trauma

How many of your virtual patients
can walk?

Phil Blyth

Dept of Anatomy with Radiology

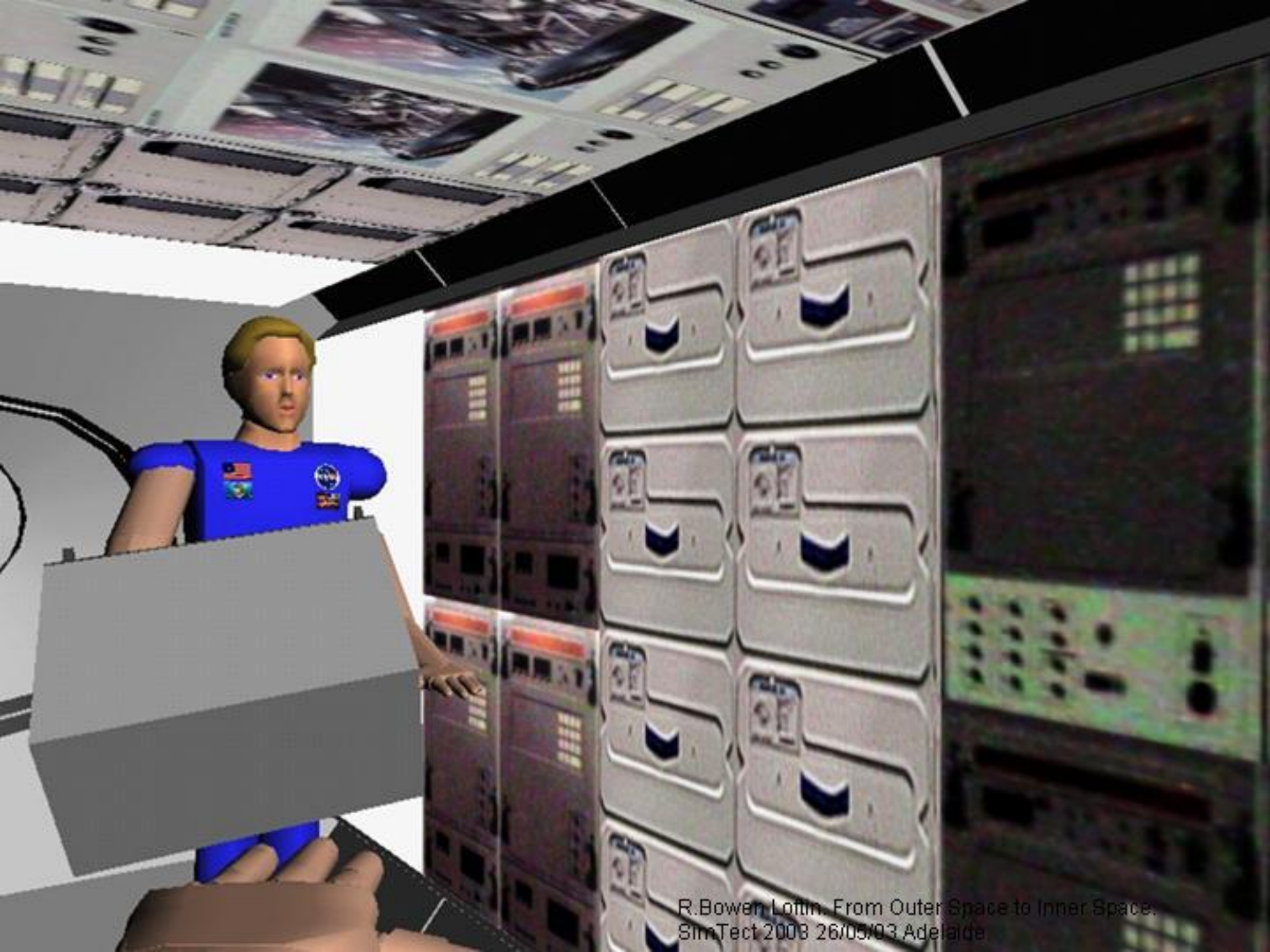




R. Bowen Loftin, From Outer Space to Inner Space
SimTact 2003 28/05/03 Adelaide



© Bowen Loftin. From Outer Space to Inner Space
March 26/05/03 Adelaide.



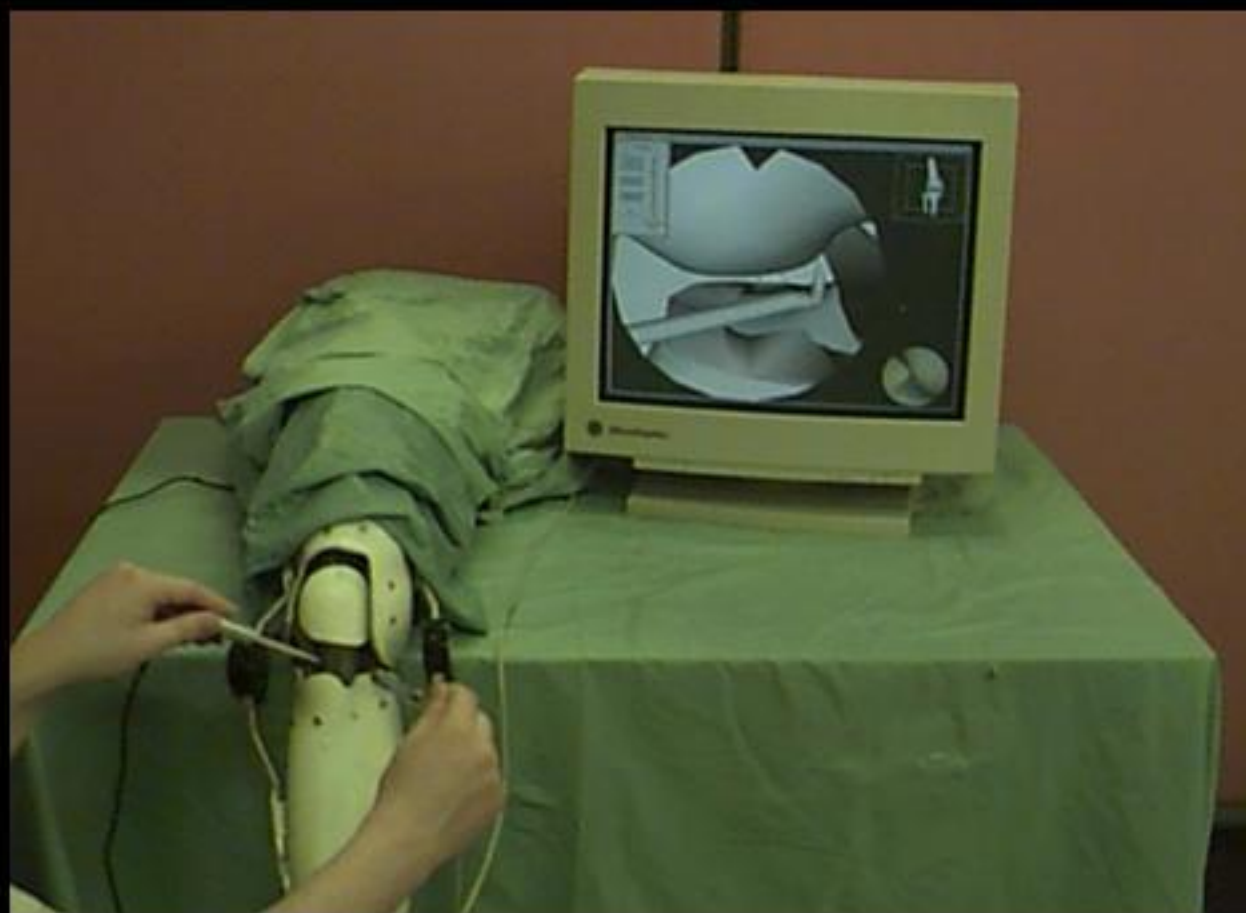
Haptics – Force Feedback



<http://www.reachin.se/>

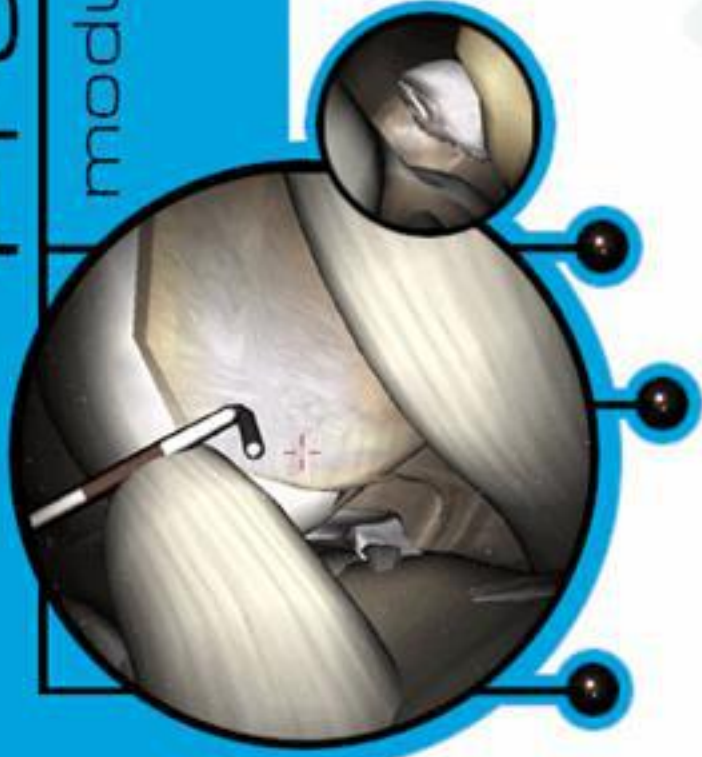


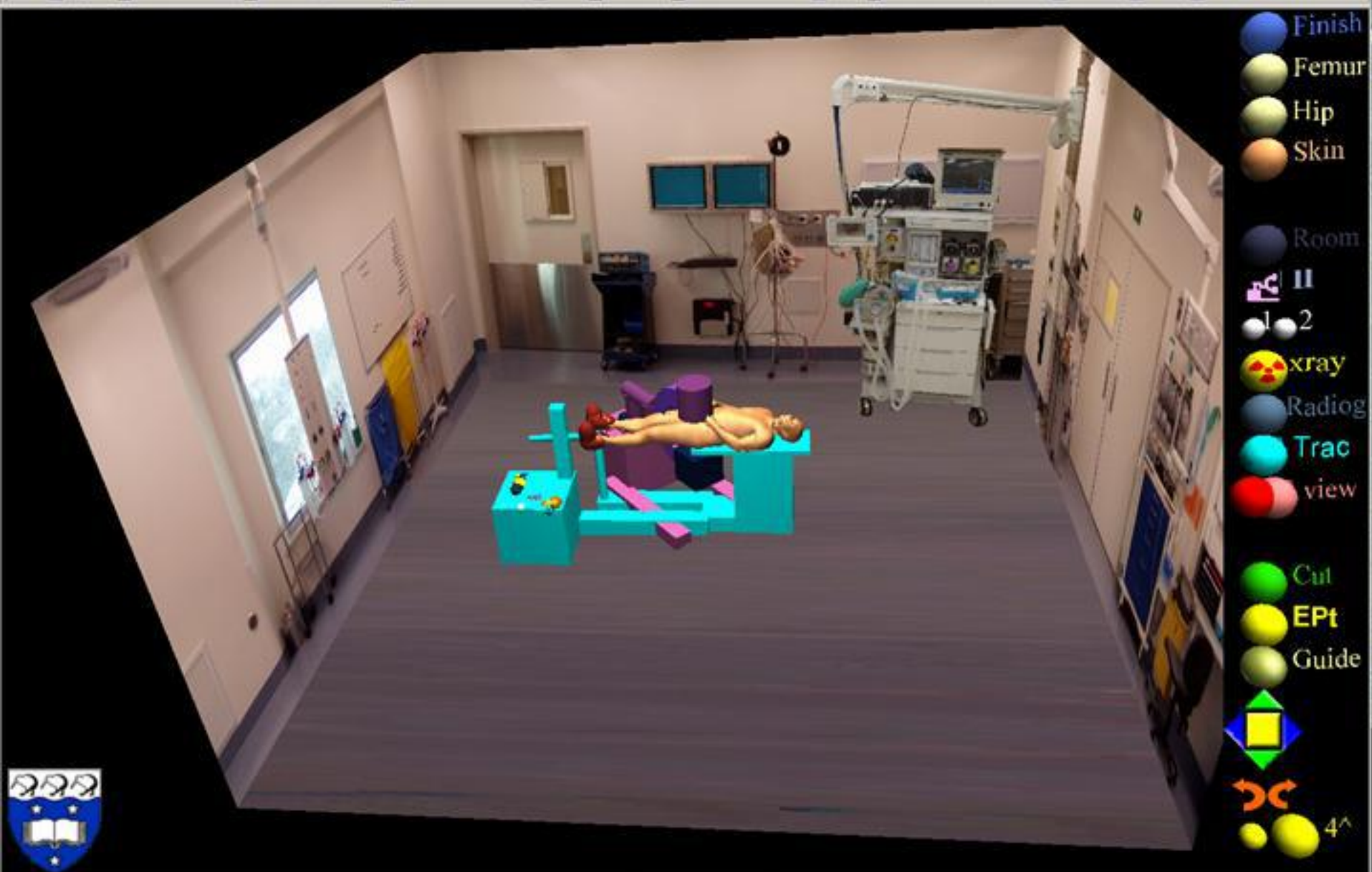
<http://www.cmis.csiro.au/imvs/Technology/workbench.htm>

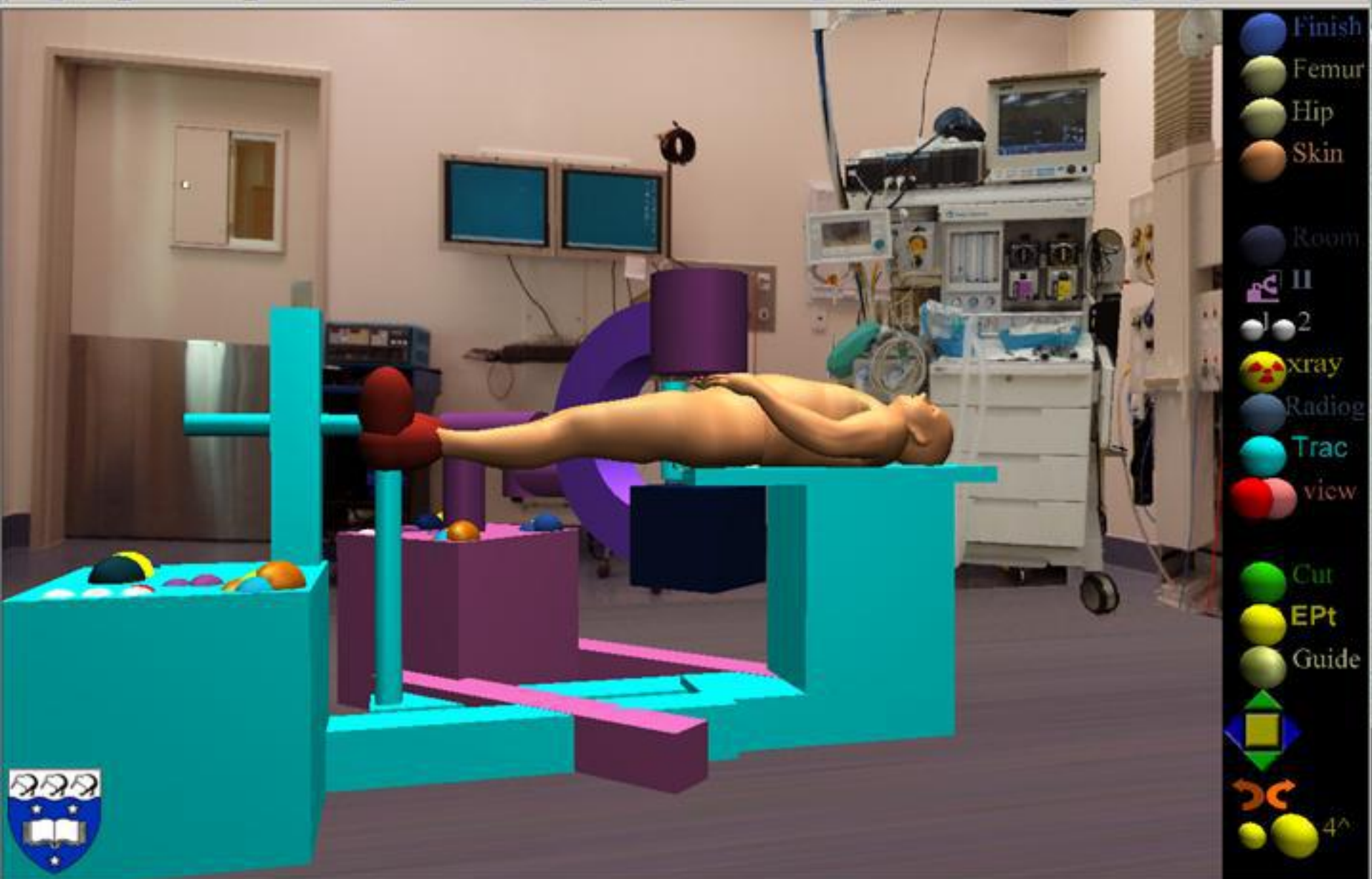


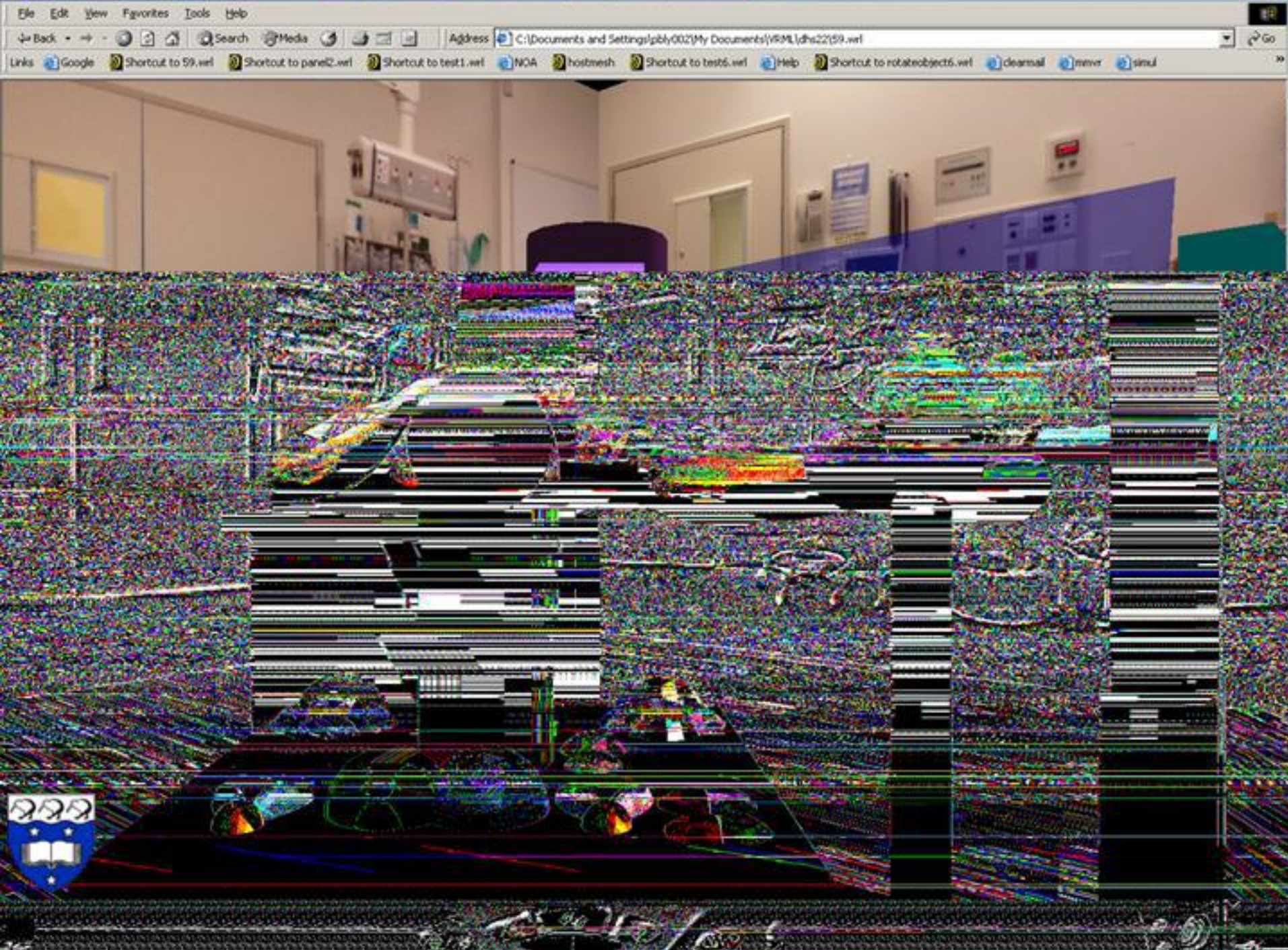
Procedicus

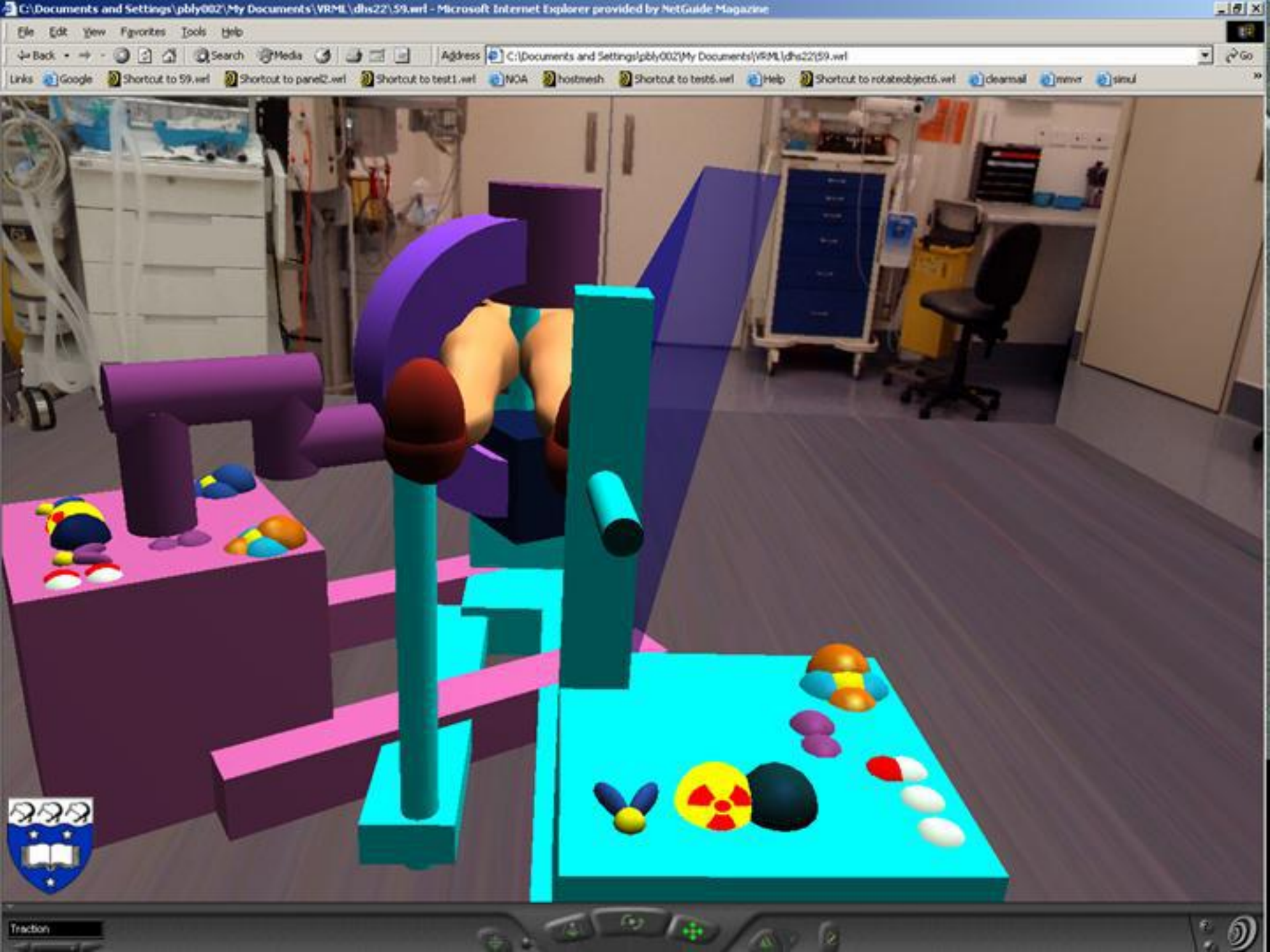
module: Knee





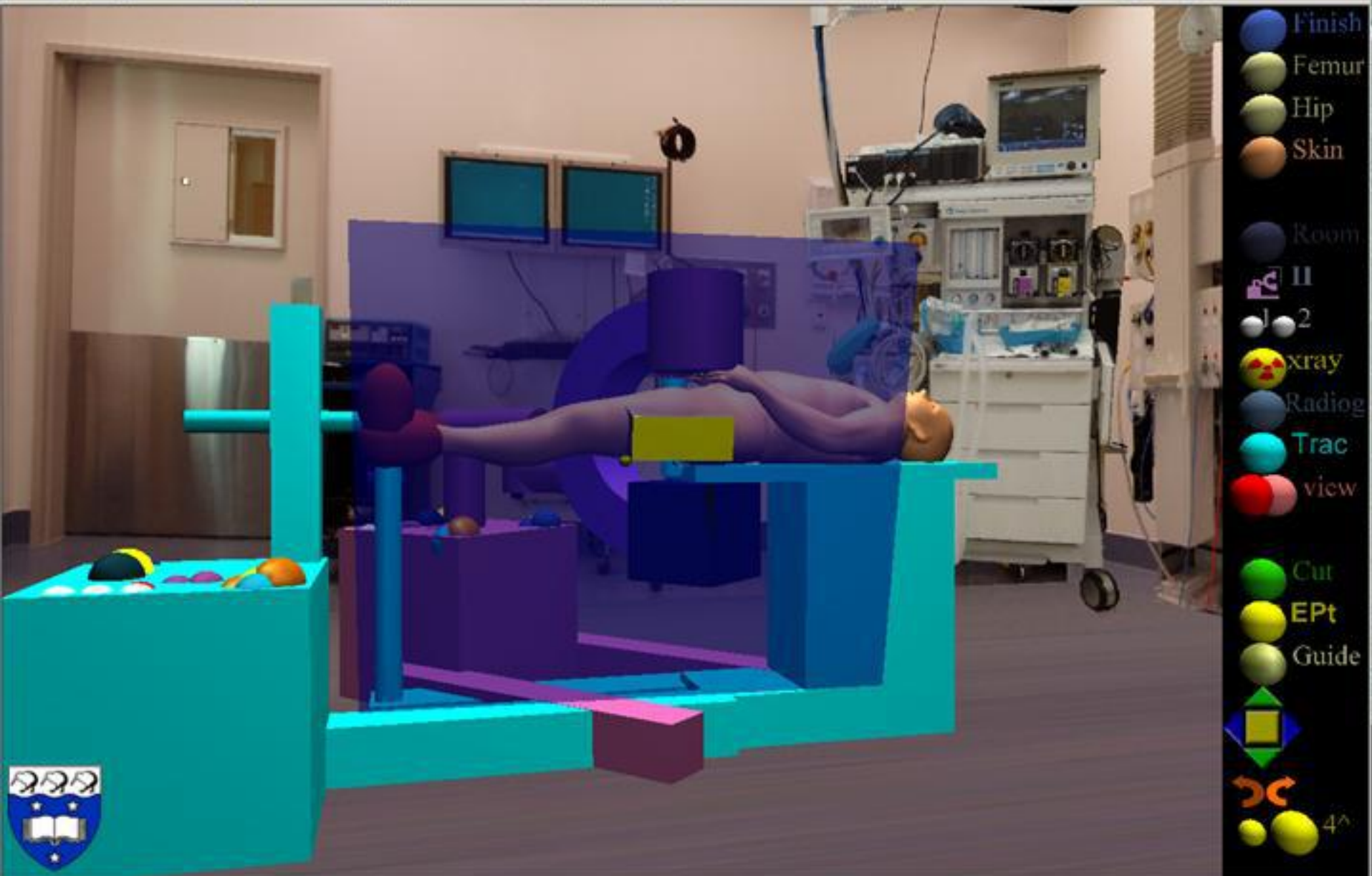


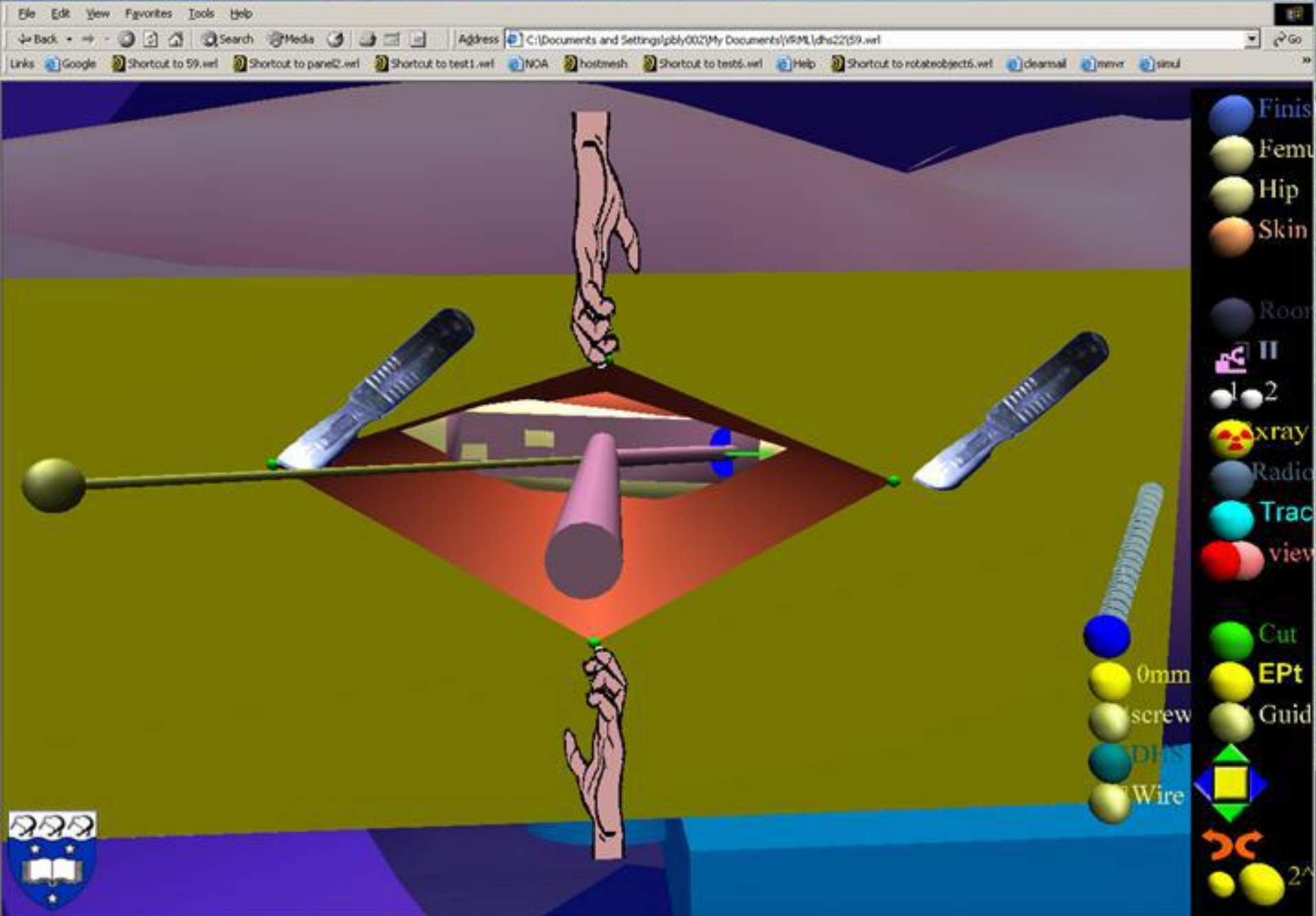


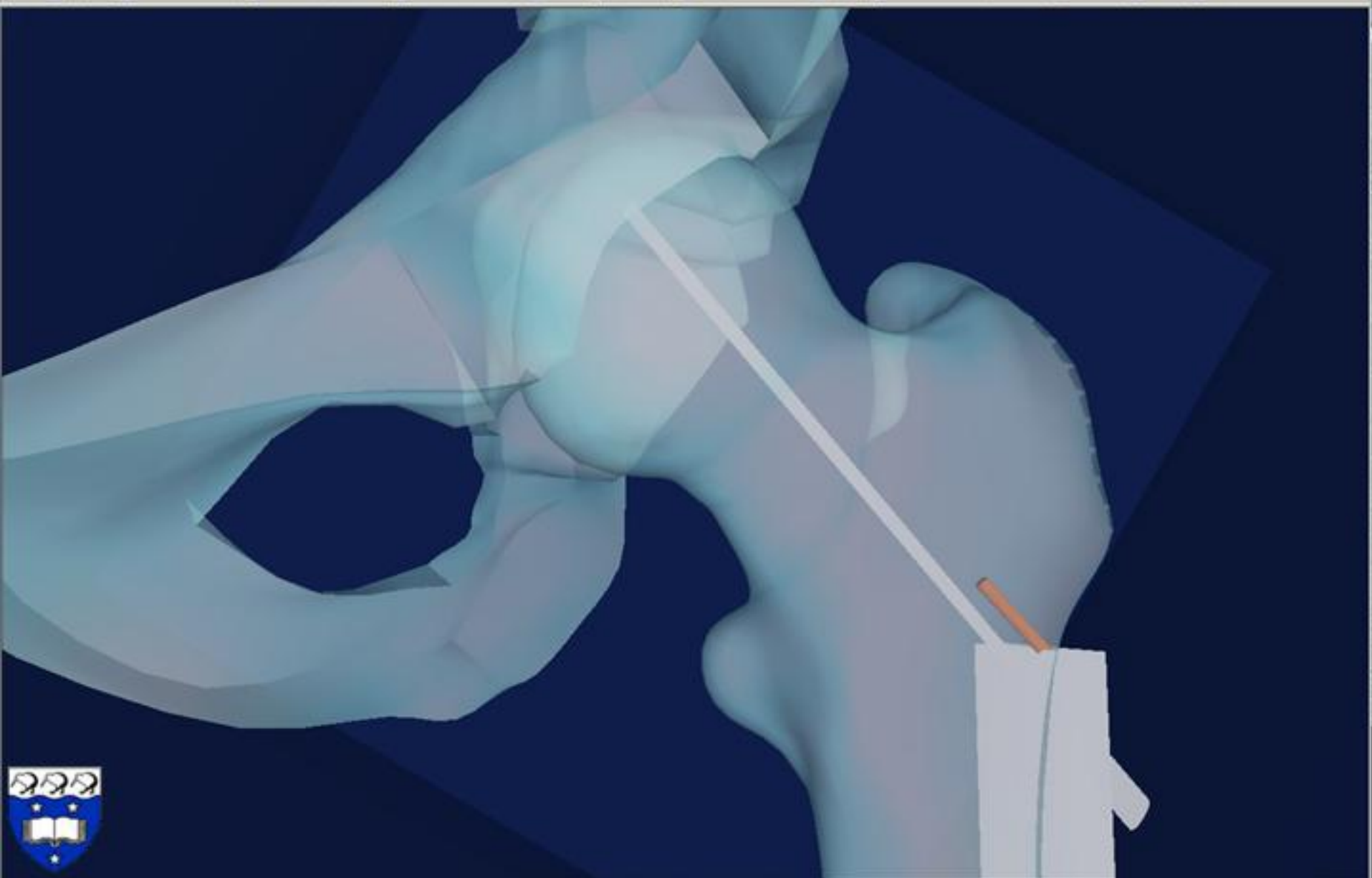


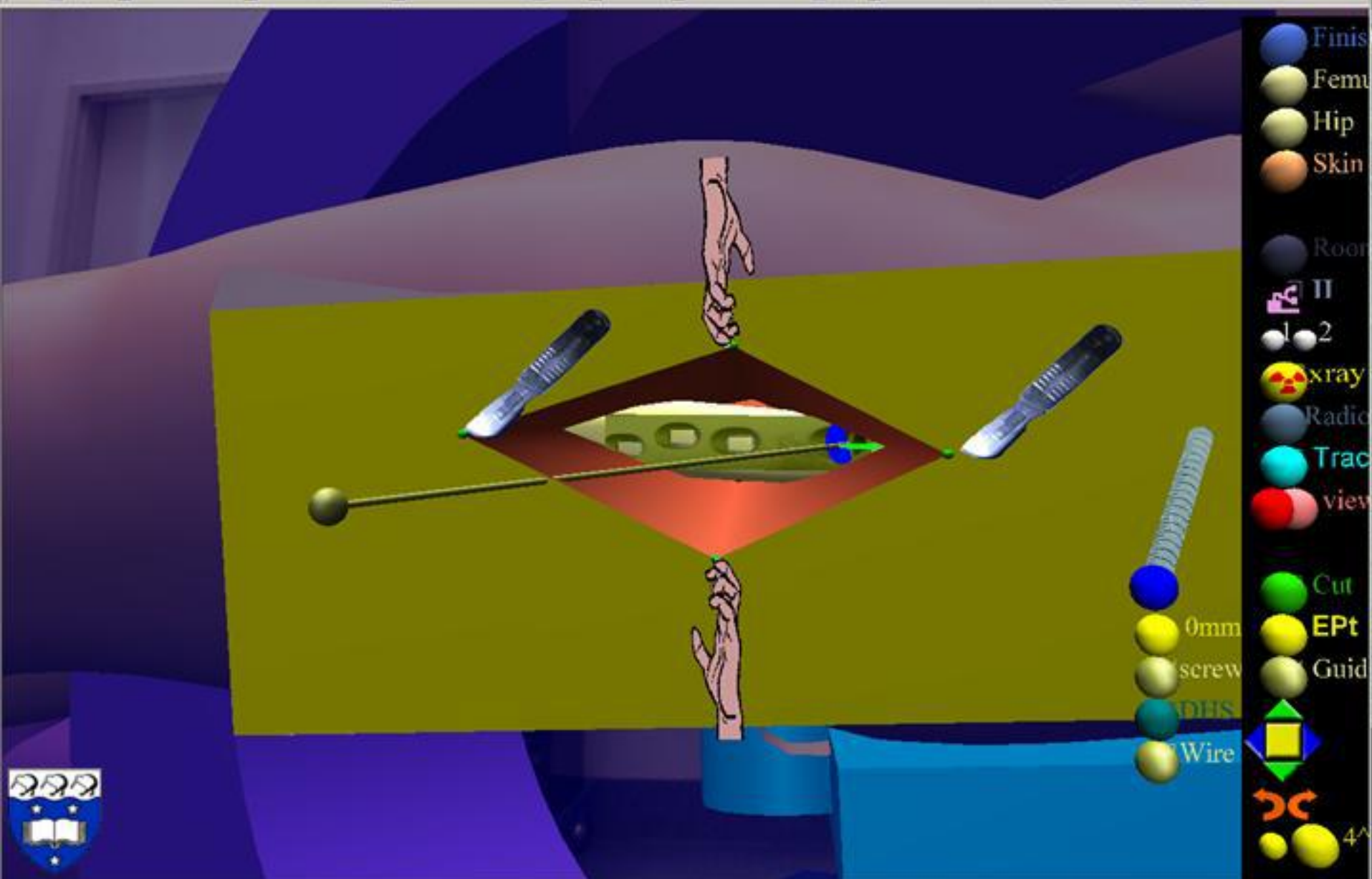
What surgeons think is important

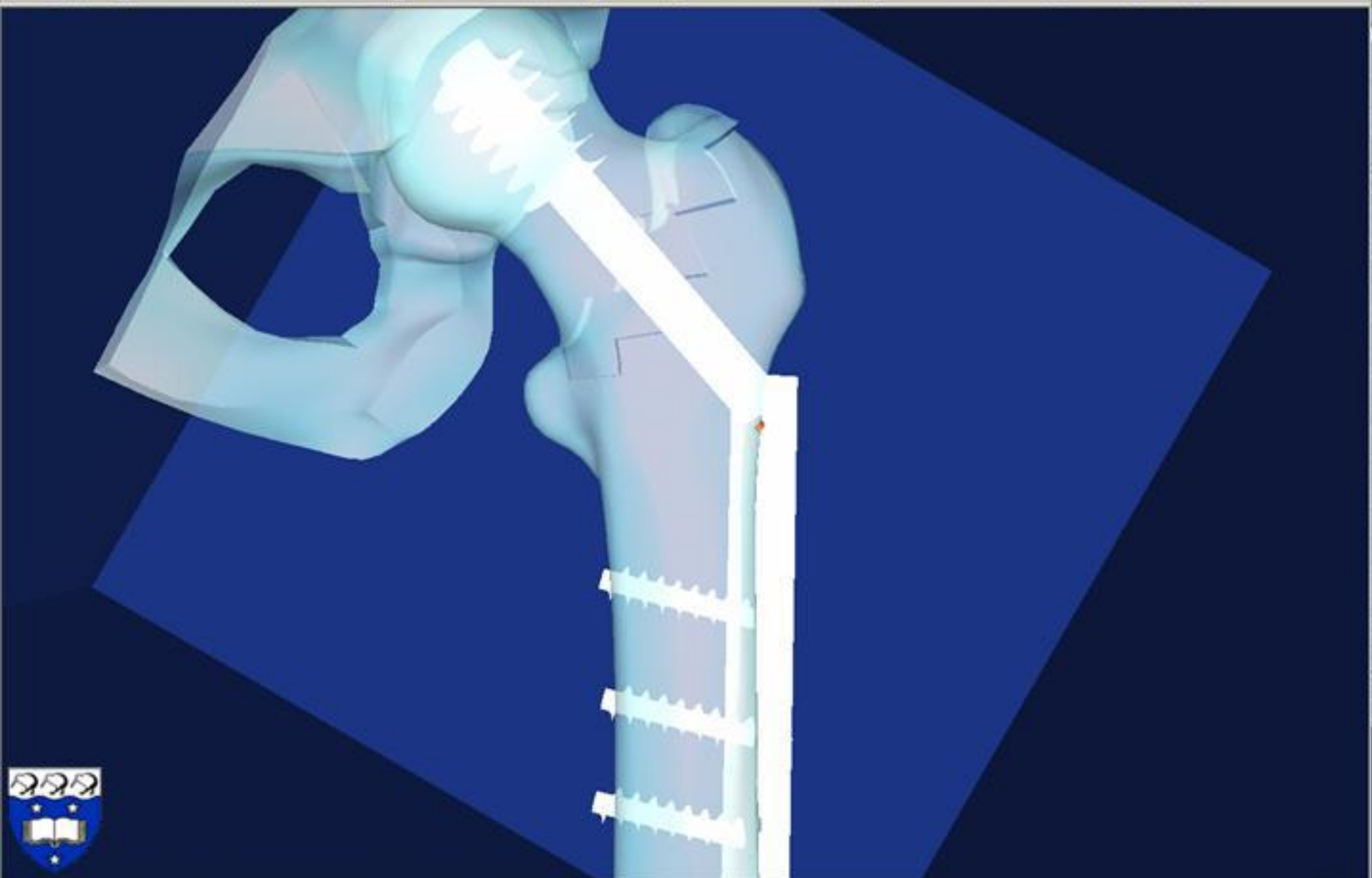


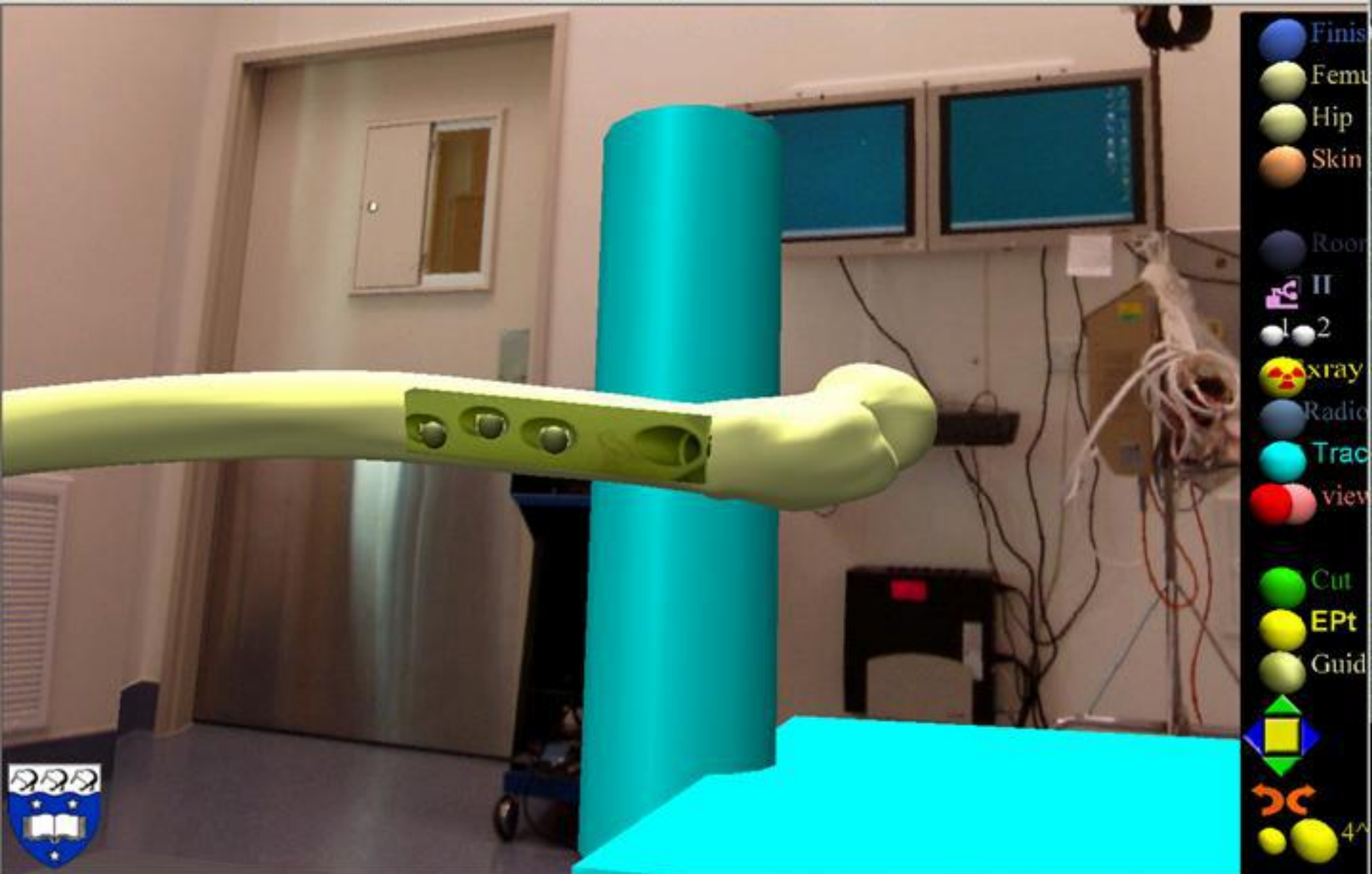


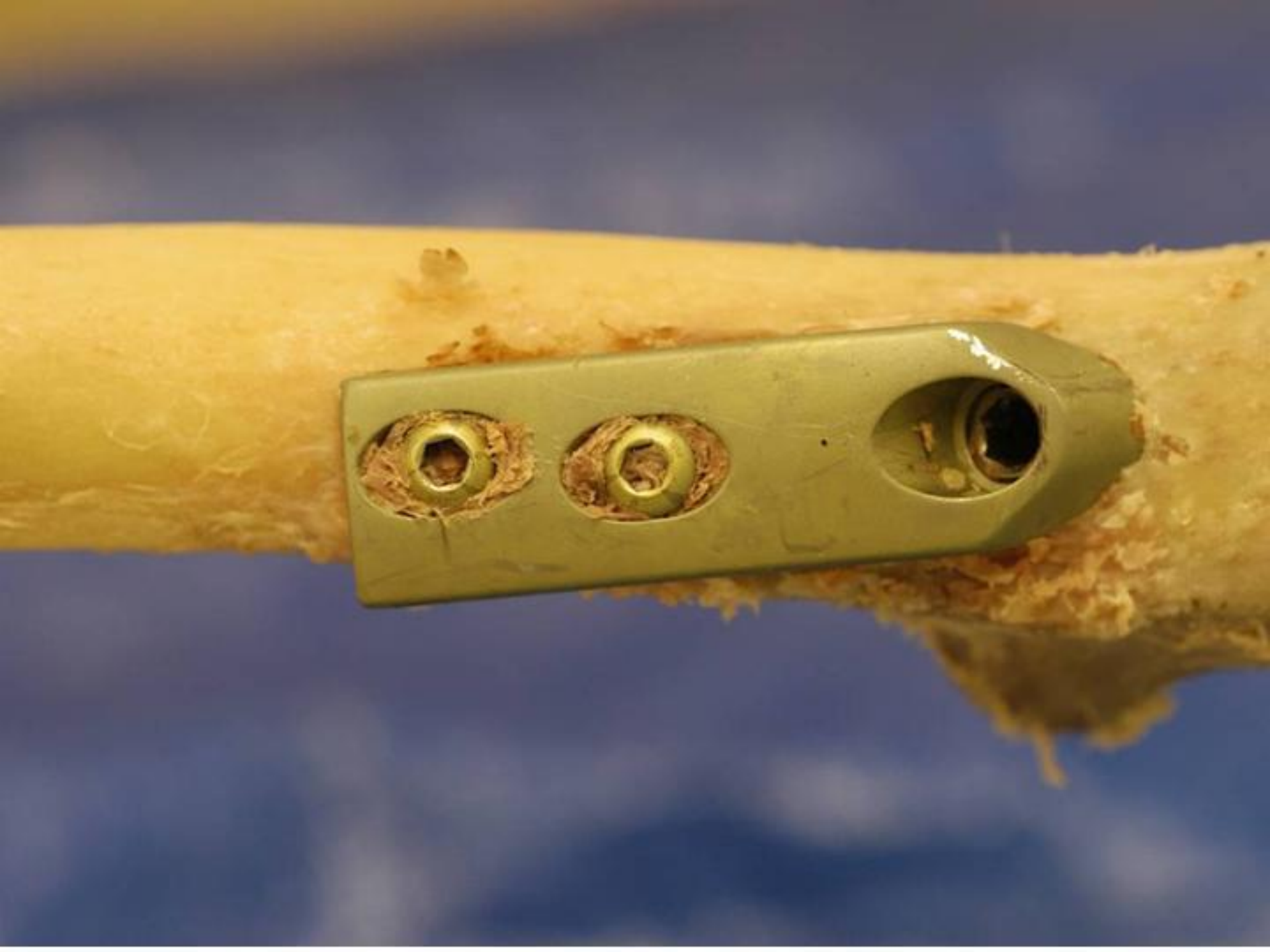












What surgeons think is important

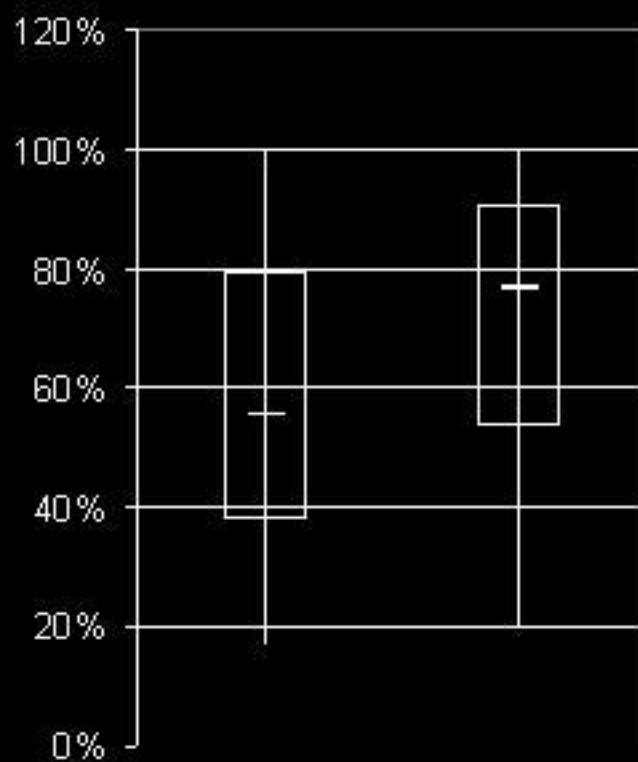
- 2 page Postal Survey
- 212 Orthopaedic Surgeons and Trainees
- Response rate 70%
 - 128 surgeons
 - 24 trainees



Time Frame

Simulation will impact on my **practice** in next 5 years?

Agree Strongly



Disagree Strongly

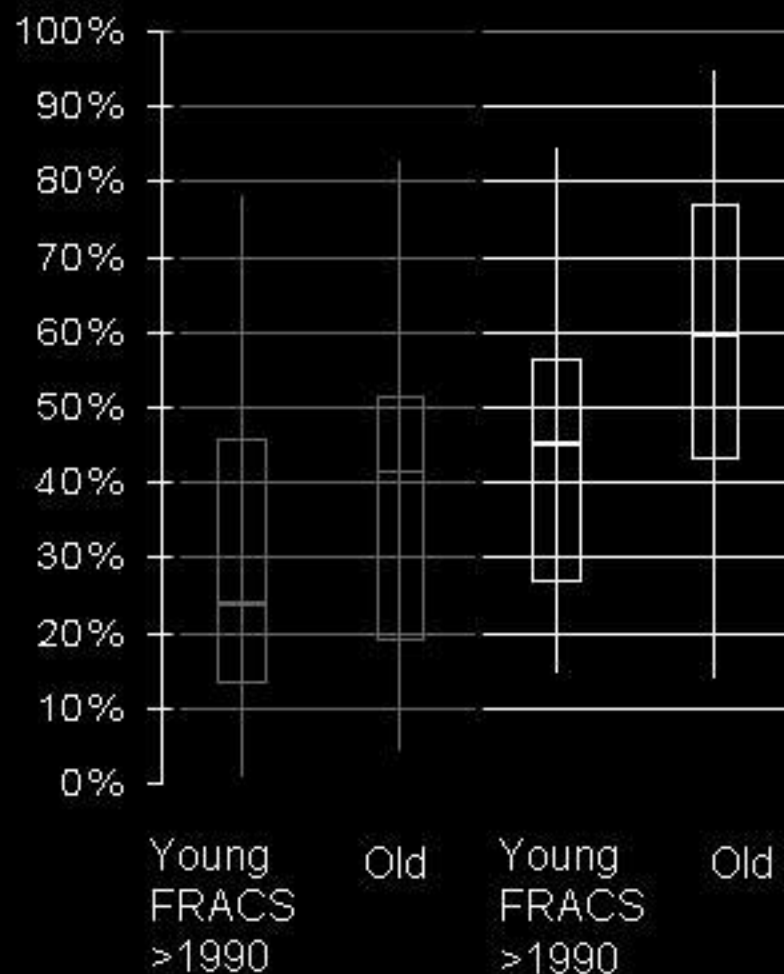
Young
FRACS
>1990

Old

Time Frame

Simulation can be used for **accreditation** in next **10** years?

Agree Strongly



Disagree Strongly



May I see your Scorecard?



May I see your Scorecard?



RIBNO MENI	
- OHRIDSKI KRAP	
- JAGULA (50 REZERVOIR)	
- BELVICA	
	1400 1kg
SALATI	
- GREKA	100
- ŠOPSKA	100
- MAKEDONSKA	80
- MEŠANA	70
- TARATUR	100
- PIROŠKI	150