Professor Paul S. D'Urso
MBBS (Hons) PhD, FRACS

Neurosurgeon
Provider No: 081161DY

FRACS
Fellow of the
Royal Australasian College of Surgeons

The Epworth Centre
Suite 7, Level 8, 32 Erin Street
Richmond Vic 3121
Tel: 03 9421 5844
Fax: 03 9421 4186
Email: enquiries@pauldurso.com
Web: www.pauldurso.com

Biomodelling

Prof. Paul D'Urso has recommended that a Stereolithographic biomodel be manufactured of your spine. The biomodel will be generated from a routine CT scan of your spine. Prof. D'Urso will use the biomodel to explain to you why you need surgery. He will also use the biomodel to plan the surgical procedure. The biomodel will then be sterilised and used intraoperatively to assist with the surgery and the exact placement of titanium screws using a minimally invasive keyhole approach. Once the surgery is completed the biomodel will be re-sterilised and can be provided as a keepsake, at your first post-operative visit.

Prof. D'Urso has considerable experience using biomodels over a 15year period and has found them to be extremely helpful in delivering the best possible outcome for patients with more complex spinal conditions.

What is Biomodelling?

Biomodelling is a process of solid anatomical replication. 3D Medical scan data are used to direct a 3D Printer to manufacture exact plastic replicas (BioModels) of patient anatomy. Such biomodels may then be used to improve communication, allow advanced tactile surgical planning and placement of spinal implants. There is overwhelming evidence from the scientific literature to support the clinical utility of biomodels. A comprehensive on-line MedLine (USA National Library of Medicine) search has found over 240 papers that describe the use of this technology in surgery.

Prof. Paul D'Urso has been a world leader in the development of biomodelling technology. He commenced the research to develop the process in 1991. Prof. D'Urso founded and remains a Director and Shareholder of the company Anatomics Pty Ltd that continues to provide biomodel technology to patients in Australia and throughout the world.

APPENDIX B: Web Resources

http://www.anatomics.net/resources/our_publications.html

for a full publication list featuring Anatomics technology specifically, and:

http://www.anatomics.net/resources/medical_RP_papers.htm

for a comprehensive summary of international research in BioModelling technology.

Abstracts for most of the papers listed in Appendix A are freely available via search at the USA National Library of Medicine (MedLine) web site:

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi

DISCLOSURE

Prof. Paul D'Urso has researched and developed biomodelling technology in Australia. Prof. D'Urso is Director and Shareholder of Anatomics Pty Ltd.

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