

## Australian-first 3D-printed Metal Jaw Joint

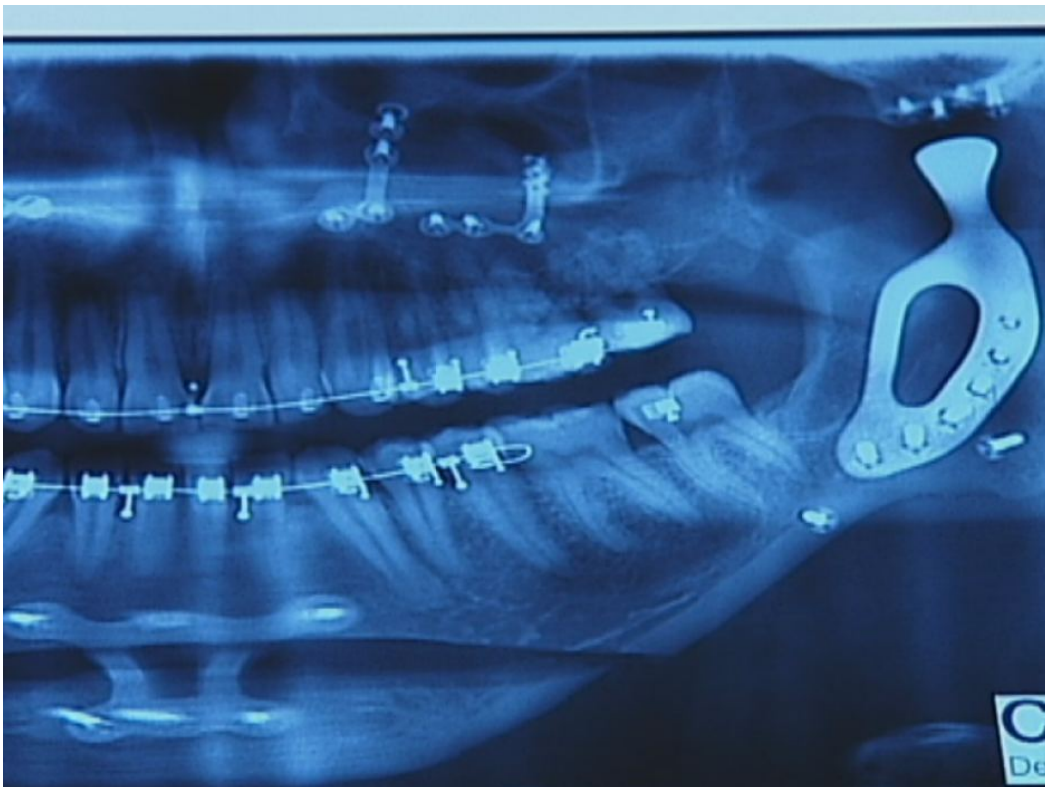
- **Pioneering corrective surgery using a 3D-printed implant**
- **Implant development and project delivery managed by 3DM**
- **Surgery undertaken at Melbourne's Epworth-Freemason Hospital by leading Oral & Maxillofacial Surgeon, Dr George Dimitroulis**

Further to the announcement made by 3D Medical Limited (ASX:3DM) (3DM or the **Company**) on 20 May 2015, the Company is pleased to confirm that, in an Australian first, and working with a leading Oral & Maxillofacial Surgeon, it has successfully developed a 3D-printable and customised titanium jaw joint for use in corrective jaw surgery.

A 32-year-old male patient underwent a ground-breaking five hour operation at the Epworth-Freemasons Hospital in East Melbourne to correct a rare jaw deformity. The jaw deformity had left the patient with a skewed lower face and limited jaw opening resulting from a missing left temporomandibular jaw joint and consequent lack of growth in the left side of the face.

The patient's severe deformity was an ideal case for 3D printing application, enabling the corrective implant to be perfectly fitted to the complex geometry of the mandible.

Working closely with leading Oral & Maxillofacial Surgeon, Dr George Dimitroulis, and leveraging global expertise from Australia and abroad, 3DM developed a customised titanium jaw joint that was successfully implanted into the patient (see panoramic x-ray of the patient's jaw).



The commercialisation process not only included the design and development of the implant but also extended to 3DM gaining necessary approvals with hospitals, clinicians, healthcare suppliers and the health insurer who paid for the cost of the procedure.

Dr Nigel Finch, Chairman of 3DM said “the successful outcome of this procedure not only achieves a fantastic result for the patient but it also serves to validate the end-to-end business model of 3DM in designing and developing custom implants”.

Following the surgery, Dr George Dimitroulis commented “we are at the cross-roads of an exciting era of customised medical devices that will become an integral part of healthcare in the 21st Century.”

Dr Finch said “3DM expects to see an increase in cases of this type as leading clinicians and hospitals seek to leverage the data-rich medical images used in patient diagnoses by harnessing computer-aided design and precise 3D printing to more efficiently solve complex clinical problems.”

**END**

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**About 3D Medical Limited:**

At 3D Medical our aim is to aid medical professionals in the facilitation of improved clinical care, improving medical procedures, diagnostics and ultimately improving patient outcomes.

3D Medical is a medical specific 3D printing and holographic projection and data integrations provider. Our services 3D Medical Printing; EchoPixel (holographic projection technology); GestSure (in surgery image control); Mach 7 (enterprise imaging solution provides healthcare organisations with the ability to archive, consolidate, access, and share medical imaging data across departments, locations and regions); and MediDATA provide medical practices the opportunity to leverage their analytical capabilities to gain an improved understanding of the characteristics of the patients which drive their business.

These new and innovative products leverage data already captured by conventional imaging modalities and apply it in more meaningful ways to deliver improved economic and patient outcomes.

Further information is available at [www.3Dmedical.com.au](http://www.3Dmedical.com.au)