



Piezosurgery Workshop



Course Outline

This course will be held at Te Pae Convention Centre, Christchurch.

Piezosurgery is a new and beneficial tool for surgeons allowing reduced morbidity and new minimally invasive approaches. Tom Kuruvilla and Chris Thomson have been able to use the Mectron Piezosurgery unit at Forte Health in Christchurch in endoscopic transcanal and microscope post auricular exostectomy combined with microchisels, and in rhinoplasty for hump reduction and osteotomies. There are applications in head and neck surgery, DCR, and sinus surgery that they are just beginning to trial.

Mectron Piezosurgery is a state-of-the-art ultrasonic bone dissector. The technology utilises micro vibrations (24,000 to 36,000/s) which allow for intricate bone dissection in confined anatomy, yielding significant benefits and various applications. The vibration dissection works only on bone sparing nerves, blood vessels, mucosa or dura, as soft tissue vibrates with the tip. This also offers some mitigation of the risk of sensorineural damage to the inner ear due to the frequency of conducted sound. In osteotomies the thickness of the cut is the same as the tip itself (0.5 mm).

Precision, safety and perfect ergonomics make it ideal for shaving and refining bone when close to important structures. Surgeons are discovering the post-operative benefits brought by Piezosurgery devices specifically faster and better bone healing, reduced post-operative pain, swelling and oedema.

This workshop will allow attendees to understand the concept of Piezosurgery and the technology behind it. There will be discussion with the surgeons and videos of the technology in NZ surgical practice. Tips and tricks including case selection and our learning progression will be discussed.

Each attendee will have a wet animal bone specimen to dissect using the different available handpieces used for osteotomy or osteoplasty.

If you have heard about Piezosurgery and want to know more to start your surgical journey then this workshop is for you, we have limited spaces so please register early to avoid disappointment.