

# Custom Reduction Splint for Edentulous Patients

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## Technology description

USF inventors have developed a novel device for edentulous and partially edentulous patients, of both the adult and pediatric age groups. The device assists in reduction of the mandibular and maxillary fracture segments, maintains reduction, and protects the pre-injury mandibular height and occlusal pattern. The device minimizes operative time and equipment, offering a substantial cost savings to the facility and patient compared to internal hardware placement. Surgical dissection and bone trauma is reduced to promote fracture healing. It also offers the ability to transition the patient from rigid fixation to elastic-guided motion postoperatively, and then seamlessly back into pre-injury dentures. In addition, this innovative device is custom-designed for each patient's degree of decreased bone size, ensuring a high quality and effective product.

Researchers at the University of South Florida have recently developed a custom reduction device for edentulous and partially edentulous patients to be used with mandibular and maxillary fractures.

## Institution

[University of South Florida](#)

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