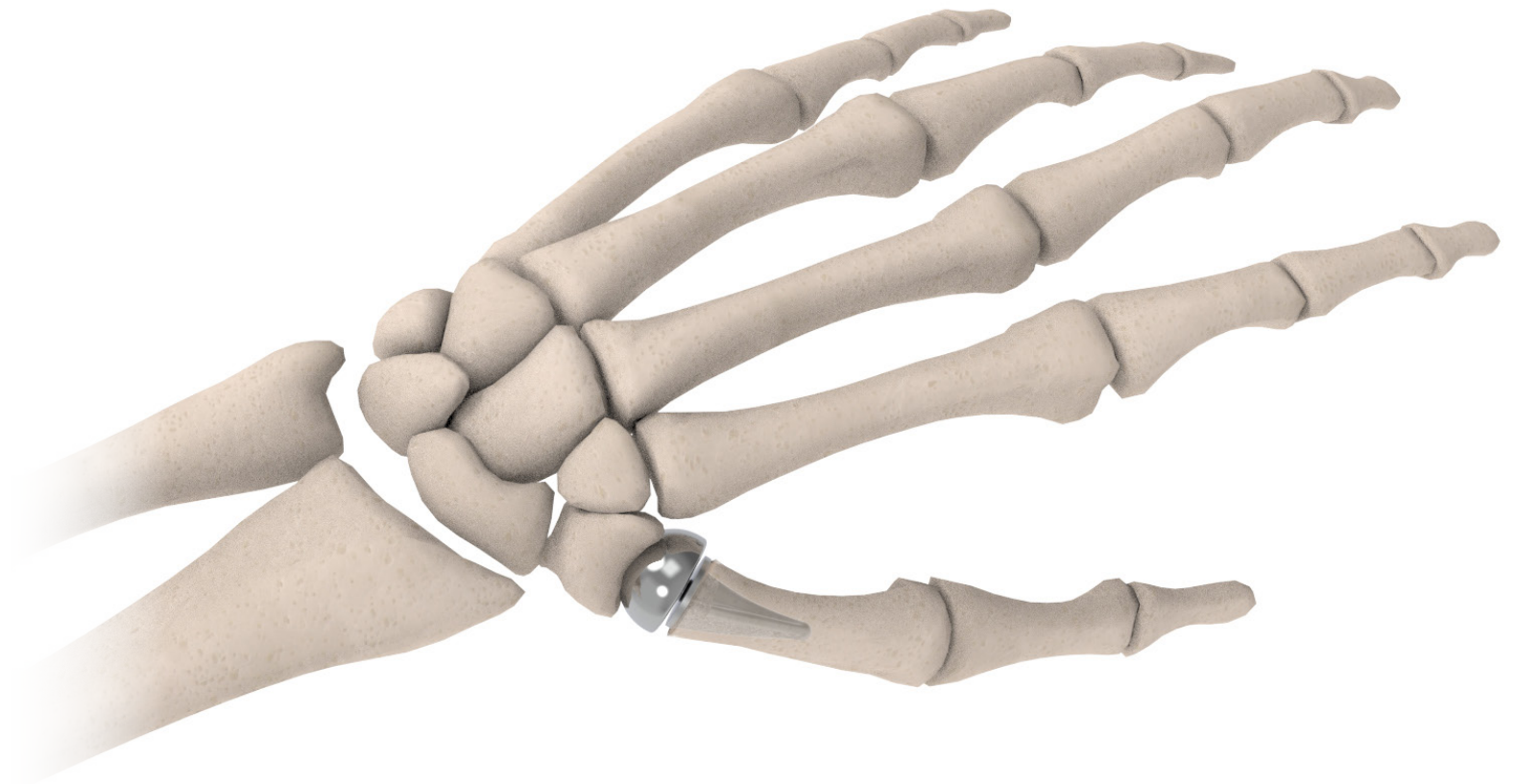


# Modular Thumb Implant

A proven customizable CMC joint implant solution.<sup>1,2</sup>





## Advancing the standard of care.

The BioPro® Modular Thumb Implant is a two-piece implant consisting of a head and a press-fit plasma-sprayed stem. The Modular Thumb is designed to address carpometacarpal (CMC) joint arthritis and the challenges with past implants including: dislocation, implant loosening and subluxation.

The implant is supported by two decades of combined clinical experience and research with published results of 94% survivorship at 6 years<sup>1</sup>. The patented modular design allows the head to be sized independently of the stem to match the patient's anatomy. The modularity along with the stems ulnar alignment has attributed to the promising advancement of cmc implant arthroplasty.

### Clinical Findings

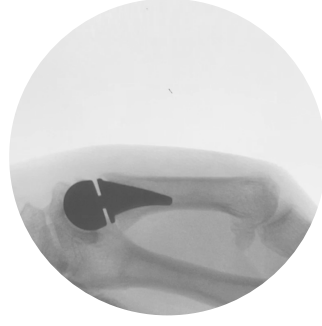
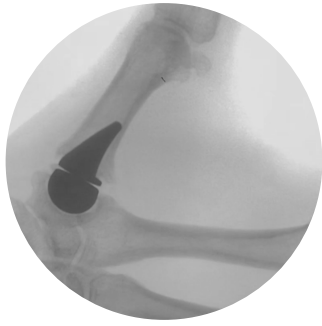
92.5-94% implant survivorship<sup>1,2</sup>

97% patient satisfaction<sup>1</sup>

1% subluxation rate<sup>1</sup>

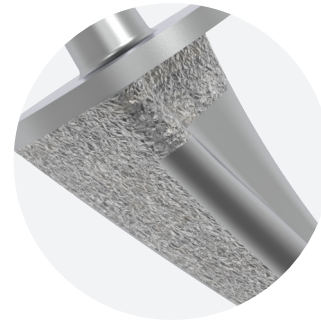
Return of strength<sup>1,2</sup>

Recovery on average 10 weeks faster than LRTI<sup>1</sup>



### Ulnar Alignment

The stem features a 15 degree varus angle resulting in an ulnar alignment of the implant which directs the head of the implant to prevent dislocation during flexion and opposition.



### Titanium plasma spray

The stem features titanium plasma spray on the backside of the implant as well as underneath the platform. This allows for improved in-growth while still allowing the stem to be easily removed if necessary.

## 48 possible configurations.

The system features four stem sizes for the metacarpal, four head diameters and three head heights (offsets/neck lengths) for the trapezium. This customizable approach allows the head of the implant to be maximized, evenly distributing the forces across the trapezium, reducing the incidence of trapezial remodeling and metacarpal subsidence. Additionally, three head offsets/neck lengths are available to assist in joint tensioning.



	Cobalt Chrome Heads	Titanium Heads
<b>12mm</b>	17199	17800
<b>12mm+2</b>	17238	17801
<b>12mm+4</b>	17500	20234
<b>13mm</b>	17005	17798
<b>13mm+2</b>	17239	17799
<b>13mm+4</b>	17501	20235
<b>14mm</b>	17006	17806
<b>14mm+2</b>	17240	17807
<b>14mm+4</b>	17507	20236
<b>15mm</b>	17007	17808
<b>15mm+2</b>	17241	17809
<b>15mm+4</b>	17508	20237

	Cobalt Chrome Stems	Titanium Stems
<b>7.5mm</b>	17596	17600
<b>8.5mm</b>	17597	17601
<b>10mm</b>	17598	17602
<b>11.5mm</b>	17599	17603
<b>7.5mm+4 Revision</b>	20050	
<b>8.5mm+4 Revision</b>	20048	
<b>10mm+4 Revision</b>	19294	
<b>11.5mm+4 Revision</b>	19295	

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1. James W. Pritchett MD, Louis S. Habryl DO. A Promising Thumb Basal Joint Hemiarthroplasty for Treatment of Trapeziometacarpal Osteoarthritis. Clinical Orthopaedics and Related Research. April 2012
2. John Faillace MD. Hemiarthroplasty Successfully Treats Thumb Basilar Arthritis. Presented at the American Academy of Orthopedic Surgeons 2017 Annual Meeting.

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