All-on-4® treatment concept
Mandible – TiUltra™ & Xeal™

Dr. Philip M. Walton
Patient
78 years, female

Clinical situation
Failing mandibular dentition

Surgical solution
Full arch clearance + same day rehabilitation with All-on-4® treatment concept

Restorative solution
Immediate PMMA temporary
Definitive zirconia

Surgery date
July 2019

Total treatment time
18 months
“I hated my teeth since I was a teenager and as far as I can remember they were fraught with problems – constant cavities, fillings, root canals, extractions.

The pain associated with my teeth and the recurrent issues were a source of stress.

When I lost my back lower teeth the dentist attempted to use a denture that made me gag, was ill-fitting and uncomfortable – I simply could not wear it and as a result my chewing/function was impacted.”
Initial presentation
Initial presentation
Day of surgery
Day of surgery
Day of surgery

Clinical presentation

Photo courtesy of Phil Walton
Day of surgery

VDO measurement

Photo courtesy of Phil Walton
Day of surgery

Extraction therapy

Photo courtesy of Phil Walton
Day of surgery

Flap reflection

Photo courtesy of Phil Walton
Day of surgery

Aveolectomy

Photo courtesy of Phil Walton
Day of surgery

Aveolectomy

Photo courtesy of Phil Walton
Day of surgery

High insertion torque

Photo courtesy of Phil Walton
Day of surgery

Bone profiler
Day of surgery

Implants placed

Photo courtesy of Phil Walton
Day of surgery

Multi-unit Abutment Xeal™

Photo courtesy of Phil Walton
Day of surgery

Impression Copings

Photo courtesy of Phil Walton
Day of surgery

PMMA prosthetic

Photo courtesy of Phil Walton
Temporary Day of surgery
6-month impression
6-month impression
18 months
18 months

Photo courtesy of Phil Walton
18 months

Photo courtesy of Phil Walton
18 months

Photo courtesy of Phil Walton
18 months

Zirconia final

Photo courtesy of Phil Walton
18 months

Intaglio surface

Photo courtesy of Phil Walton
18 months

Photo courtesy of Phil Walton
18 months
18 months

Photos courtesy of Phil Walton
Case courtesy of Dr. Phil Walton