



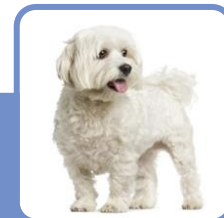
CASE STUDY

BIOCERA-VET Bone Surgery RTU

The only ready-to-use injectable bone substitute with high porosity & compressive strength



- **Unique composition** - Calcium deficient hydroxyapatite for an optimal osteo-integration and conduction
- **High injectability, long workability & high cohesivity**
- **Self-setting** - Fast-hardening within 10-15'
- **High mechanical resistance** (up to 45MPa)



Mal-union fracture revision in toy breed

Sissi, female Maltese Dog, 10 months-old

PRE-OP



→ Fracture line

POST-OP



→ BIOCERA-VET Bone Surgery RTU

20 WEEKS POST-OP



- **Distal Radio-Ulnar refracture revision surgery**
- Reduction of the radioulnar fracture, positioning of plate and screws.
- Filling of the bone gap with BIOCERA-VET BONE SURGERY RTU 1 cc
- Radiological follow at 20 weeks (5 months) showed a good bony ingrowth and presence of bone callus with advanced resorption of BIOCERA-VET Bone Surgery RTU

Case performed by Dr. Melania Dallago, DVM, PhD, Italy



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Tibiotarsal arthrodesis

Zazou, female mixed Carthusian, 4 years-old

PRE-OP



IMMEDIATE POST-OP



4 WEEKS POST-OP



→ BIOCERA-VET Bone Surgery RTU

- **Metatarsal bone fracture**
- Fracture reduction and tibiotarsal arthrodesis
- Filling of the fracture site with BIOCERA-VET BONE Surgery RTU 1cc
- Radiological follow-up at 4 weeks showed a new bone formation associated to a good radiological and clinical improvement

Case performed by Dr. Frédéric Sanspoux, DVM, CES d'orthopédie, Clinique Sirius, France



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Ulnar comminuted fracture

Lilly, domestic short-haired cat, 3 years-old



PRE-OP



IMMEDIATE POST-OP



6 WEEKS POST-OP



→ BIOCERA-VET Bone Surgery RTU

→ New bone formation

- **Ulnar comminuted fracture with radial head luxation (Monteggia fracture)**
- Reduction of the radial luxation and positioning of the screws and plate
- Filling of the bone gap with BIOCERA-VET BONE SURGERY RTU 1cc
- Radiological follow-up at 6 weeks showed a good bony ingrowth at 6-weeks follow-up with an optimal support and osteointegration of BIOCERA-VET Bone Surgery RTU

Case performed by Dr. Guillaume Ragetly DVM, PhD, ECVS, ACVS in Small Animal Surgery, CHV Frégis, France



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Carpal arthrodesis

Bonnie, female Staffordshire bull terrier, 3 years-old



PRE-OP



IMMEDIATE POST-OP



8 WEEKS POST-OP



→ BIOCERA-VET Bone Surgery RTU

- **Medial collateral ligament rupture**
- Pancarpal arthrodesis using a 3.5mm carpal arthrodesis plate
- Filling of the gaps with BIOCERA-VET BONE SURGERY RTU 1cc
- Radiological follow-up at 8-weeks showed good bony ingrowth with an optimal support and progressive osteointegration of BIOCERA-VET Bone Surgery RTU

Case performed by Dr. Guillaume Ragetly DVM, PhD, ECVS, ACVS in Small Animal Surgery, CHV Frégis, France

Scan me to watch the injection of BIOCERA-VET



Back to the bone





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Tibial comminuted fracture

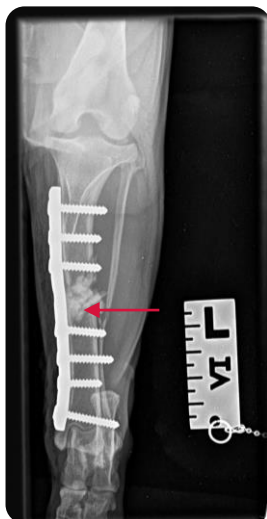
Lottie, female Cocker Spaniel, 12 years-old



PRE-OP



IMMEDIATE POST-OP



8 WEEKS POST-OP



→ BIOCERA-VET Bone Surgery RTU

→ New bone formation

- **Complete, traumatic, comminuted, closed, left mid-diaphyseal tibial and fibular fracture**
- Medial approach and bridging osteosynthesis with a 3.5 mm LC-DCP
- Filling of the fracture site with BIOCERA-VET BONE SURGERY RTU
- Radiological follow-up at 8 weeks showed rapid healing and very good bony ingrowth for a 12 years-old patient with a relatively 'biologically poor' fracture site along with progressive osteointegration of BIOCERA-VET Bone Surgery RTU

Case performed by Dr. Steve Butterworth, DVM, RCVS in Small Animal Surgery, Weighbridge Referral Centre, UK



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Tibial Plateau Levelling Osteotomy (TPLO)

Corbin, male Labrador mixed



IMMEDIATE POST-OP



8 WEEKS POST-OP



→ BIOCERA-VET Bone Surgery RTU

- TPLO performed following standard procedure
- Filling of TPLO osteotomy line with BIOCERA-VET BONE SURGERY RTU 1cc
- Radiological follow-up at 8 weeks showed good bone healing at osteotomy line with a satisfactory clinical recovery (NRS)

Case performed by Dr. Walter Renberg, DVM, MS, DACVS, USA



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Carpal arthrodesis

Lotje, female Italian Greyhound, 10 years-old



IMMEDIATE POST-OP



3 WEEKS POST-OP



6 WEEKS POST-OP



→ BIOCERA-VET Bone Surgery RTU

- **Carpal joint instability**
- Pancarpal arthrodesis using a 3.5mm carpal arthrodesis plate. Removal of old osteosynthesis plate
- Filling of the gaps with BIOCERA-VET BONE SURGERY RTU 1cc
- Radiological follow-up at 3 & 6 weeks showed optimal osteointegration and gradual resorption of BIOCERA-VET Bone Surgery RTU. Good bony ingrowth at 6 weeks follow-up is visible

Case performed by Dr. Johan Van Ommen, DVM and Dr Christophe Verroken, DVM, Dierenkliniek Orion, Belgium



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Tibial tuberosity advancement (TTA)

Rottweiler, Female, 3 years-old

IMMEDIATE POST-OP

1-MONTH POST-OP

6-MONTHS POST-OP

1-YEAR POST-OP



→ BIOCERA-VET Bone Surgery RTU

→ Bridging callus

- **Cranial cruciate ligament rupture at left stifle joint**
- TTA procedure using a 10,5/22 TTA cage. Gap was filled with BIOCERA-VET BONE SURGERY RTU 3cc to stimulate bone healing
- Radiological follow-up at 1-month showed good osteointegration of BIOCERA-VET BONE SURGERY RTU associated with new bone formation and progressive resorption of BIOCERA-VET being replaced by newly formed bone ("bridging callus")

Case performed by Dr. Yves Samoy, DVM, PhD, Dipl. ECVSMR, AniCura VETIMACS, Belgium



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