



BIOCERA-VET Osteosarcoma RTU

The only ready-to-use injectable bone substitute tailored for intra-osseous administration

CASE STUDY



- **Unique composition** - Calcium deficient hydroxyapatite for an optimal osteo-integration and conduction
- **High injectability, long workability & high cohesivity** - Ideal for intra-osseous injection and long surgical procedure
- **High mechanical resistance (up to 45MPa)** - Optimal to strengthen the weakened bone
- **Highly radiopaque** - Suitable for fluoroscopy/CT or radiological filling monitoring



Distal radius lytic osteosarcoma

Colt, male Labrador, 10 years-old

PRE-OP



POST-OP



→ BIOCERA-VET Osteosarcoma RTU

- **Aggressive lytic osteosarcoma at the distal radius. Bilateral severe cortical osteolysis**
- Post surgery pain management: carprofen; Osteosarcoma chemotherapy treatment: carboplatin
- Cementoplasty with BIOCERA-VET Osteosarcoma RTU with > 50% filling of the bone cavity with cementoplasty
- Dramatic improvement of the lameness of the patient within 24h post-cementoplasty and maintained up to 13 weeks after cementoplasty (patient still under clinical follow-up)

Case performed by Dr. Shaina Stewart Soule, DVM, PetSound Animal Hospital, USA

Scan me to see Colt impressive clinical improvement



Back to the bone





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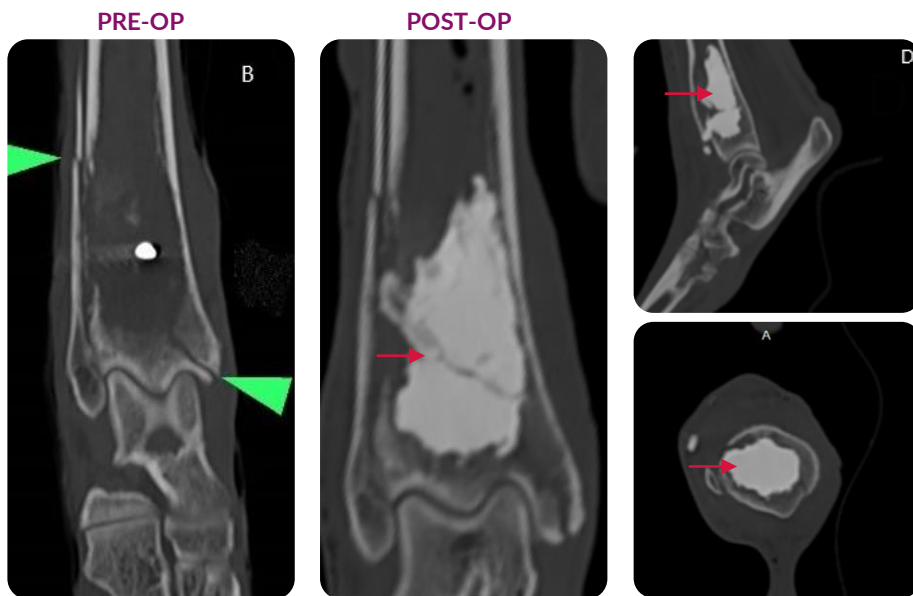
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Distal radius lytic osteosarcoma

Bob, male Greyhound, 10 years-old



▶ Fracture lines

▶ BIOCERA-VET Osteosarcoma RTU

- Aggressive lytic lesion at the right distal tibia and 2 pathological fractures, resulting in a diagnosis of osteosarcoma
- Multimodal palliative treatment considered: microwave ablation (MWA) performed first using CT-guidance.
- Percutaneous cementoplasty with BIOCERA-VET OSTEOSARCOMA RTU performed after suction of defect contents guaranteeing space for the cement & under continuous monitoring by means of CT to ensure the adequate filling of the ablated area.
- Chemotherapy and autologous vaccine administered as part of the multimodal palliative treatment.
- Positive clinical improvement following multimodal management

Case performed by Dr. David Sayag, ECVIM-CA Oncology, ONConseil, Toulouse, France



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Proximal humerus osteosarcoma

Max, male Belgian Malinois, 9 years-old



PRE-OP



POST-OP



→ Void caused by the bone tumor → BIOCERA-VET Osteosarcoma RTU

- **Osteosarcoma at the right proximal humerus**
- Post surgery pain management: carprofen and gabapentin.
Osteosarcoma treatment: carboplatin
- Excellent bone filling and positive clinical improvement after cementoplasty

Case performed by Dr. Shaina Stewart Soule, DVM, PetSound Animal Hospital, USA



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Proximal humerus osteosarcoma

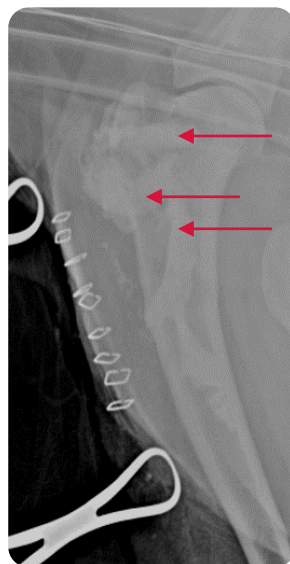
Border Collie, 12 years-old

PRE-OP



→ Void caused by the bone tumor

POST-OP



→ BIOCERA-VET Osteosarcoma RTU

- **Lesion at the right proximal humerus, diagnosis of osteosarcoma**
- Palliative treatment considered: percutaneous cementoplasty with BIOCERA-VET OSTEOSARCOMA RTU
- Suction of bone defect guaranteeing space for the injection & cementoplasty under continuous monitoring by means of CT to ensure the adequate filling of the ablated area.
- Filling 50% of the lesion with BIOCERA-VET OSTEOSARCOMA RTU achieved with satisfactory clinical improvement after cementoplasty
- Filling of bone cavity with BIOCERA-VET OSTEOSARCOMA RTU

Case performed by Dr. Ciarán Jones, MVB, MS, ACVS, ECVS, MyVet Luncan, Ireland



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Distal radius lytic osteosarcoma

Tyna, female Leonberger, 8 years-old



PRE-OP



POST-OP



→ BIOCERA-VET Osteosarcoma RTU

- **Aggressive lytic lesion at the right distal radius, resulting in a diagnosis of osteosarcoma.**
- **Cementoplasty with BIOCERA-VET Osteosarcoma RTU.** Optimal filling of the bone cavity created by the tumor through aspiration of the cavity contents and injection under fluoroscopic control
- **Good improvement of pain and lameness within 24h post-cementoplasty.** Satisfactory quality of life up to 2-months. Worsening of the disease from 2-months with end of life at 3-months.

*Case performed by Dr. Olivier Gauthier, DVM,
Professor of Veterinary Surgery at the College of
Veterinary Medecine ONIRIS, Nantes, France*



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Lytic lesion at the right femur

Hastro, male Newfoundland dog, 10 years-old

PRE-OP



POST-OP



7 WEEKS POST-OP



15 WEEKS POST-OP



- **Aggressive lytic lesion, with an atypical presentation, at the distal third of the right femur with confirmed diagnosis of appendicular osteosarcoma.**
- Percutaneous cementoplasty with BIOCERA-VET OSTEOSARCOMA RTU alone.
- Good improvement of pain and lameness within 24h post-cementoplasty. Good quality of life maintained as far as 20 weeks after cementoplasty

*Case performed by Dr. Olivier Stievenart, DVM,
Surgivet, Belgium*

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Scan me to see Hastro clinical improvement



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Distal radius lytic osteosarcoma

Alfred, male Anatolian Shepherd, 10 years-old

PRE-OP

POST-OP

1 MONTH POST-OP

- **Aggressive osteoproliferative and osteolytic lesion at the distal radius, compatible with osteosarcoma**
- Palliative treatment by cementoplasty with BIOCERA-VET OSTEOSARCOMA RTU
- Good filling of the cavity with good improvement of lameness and pain.
- Increase of the osteoproliferation and soft tissue swelling associated to the tumor progression observed at 1-month follow-up.

→ BIOCERA-VET Osteosarcoma RTU

Case performed by Dr. Luis Chambel, DVM and practice owner at VetOeiras Veterinary Hospital Evidensia, Portugal



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