



STERNUM

INNOVATIVE SOLUTION FOR
STERNAL REPLACEMENT



CERAMIC STERNUM



The sternal implant is a result of the combined surgical expertise of Dr François Bertin and ICERAM's expert knowledge of the manufacturing processes of ceramic implants.

The porous alumina sternum represents a development in the surgical treatment of metastases and bone infection. Totally inert, the ceramic sternum is **biocompatible** and has a **mechanical resistance** similar to that of the native sternum.

INDICATIONS APPLICATIONS

Sternal metastases

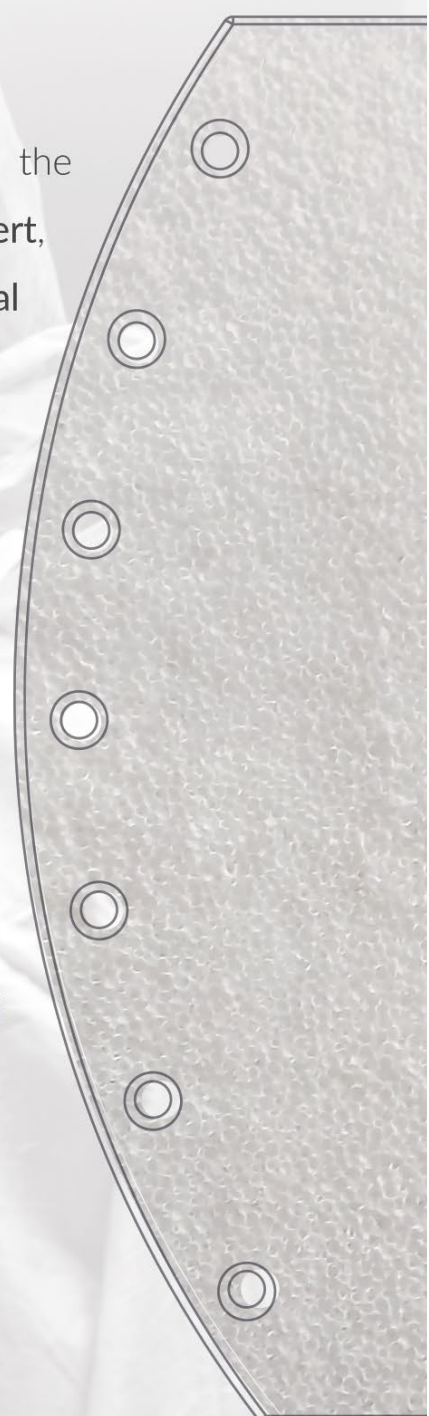
Radio-induced cancer

Primary tumors

Sternal destruction
by controlled infection

Agensis

Size 3
scale 1:1



CERAMIC STERNUM

Thanks to its revolutionary **porous structure**, identical to that of cancellous bone, and to its qualities of **osteoconduction** and **osseointegration**, the implant becomes an integral part of the thoracic cage. The durable nature of this bone integration significantly improves increases the patient's well-being and his/her quality of life.

TECHNICAL CHARACTERISTICS

Complete biocompatibility, bio inert

Open and interconnected porosity promoting osseointegration

Ready to use: **shortened surgical intervention time**

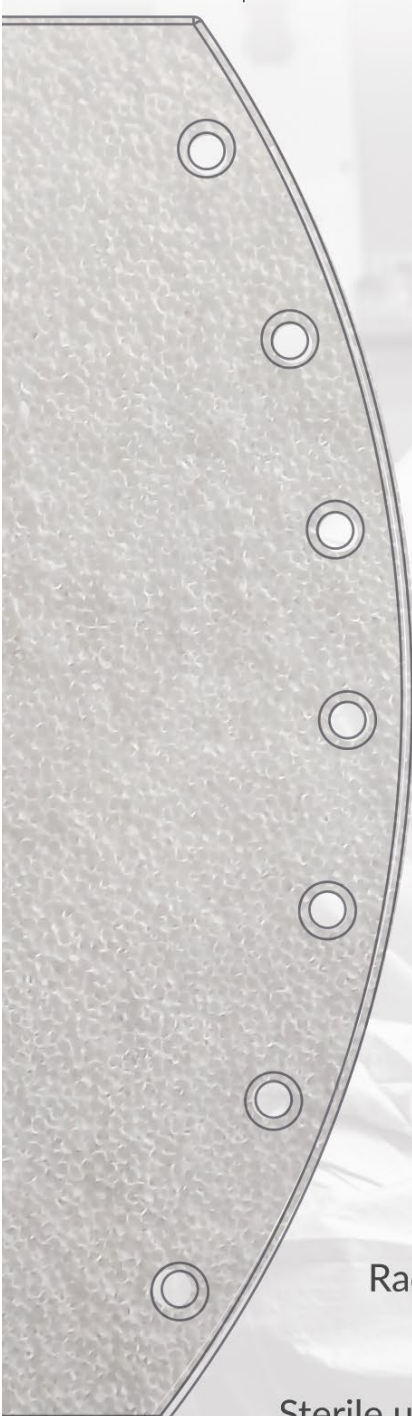
Directly anchored to thoracic wall with non absorbable suture thread

No metal osteosynthesis

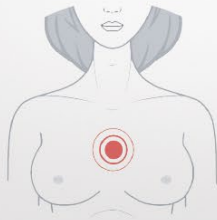
Mechanical resistance: 6 to 7 MPa

Radiotherapy compatible

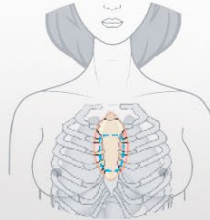
Sterile unit packaging



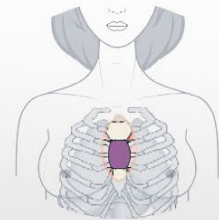
SIMPLIFIED SURGICAL TECHNIQUE: STERNAL TUMOR



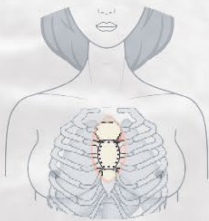
Skin incision
including the biopsy route
after anatomical marking



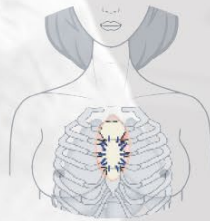
Size selection
with trial implants



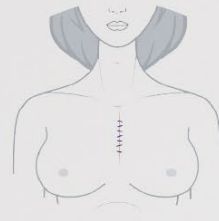
**Sectioning of ribs
and one-piece
tumor excision**



**Implantation of the
ceramic sternum**

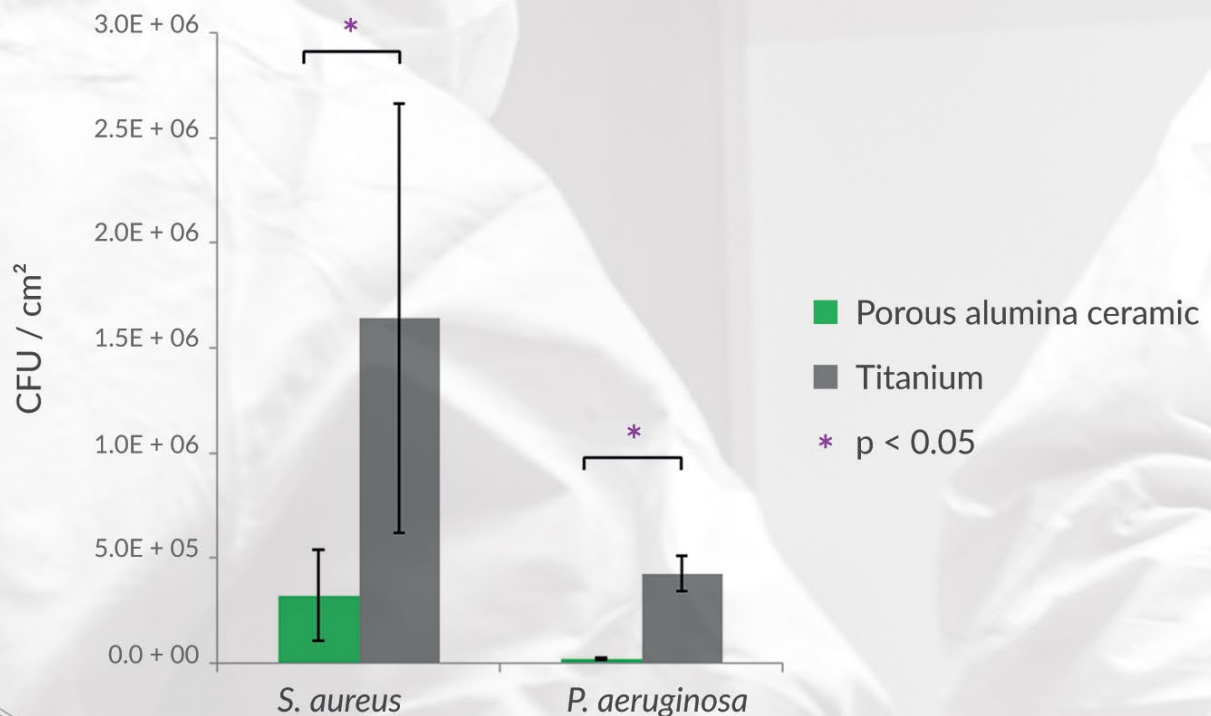


Prosthesis stitching
using non-resorbable
suture thread

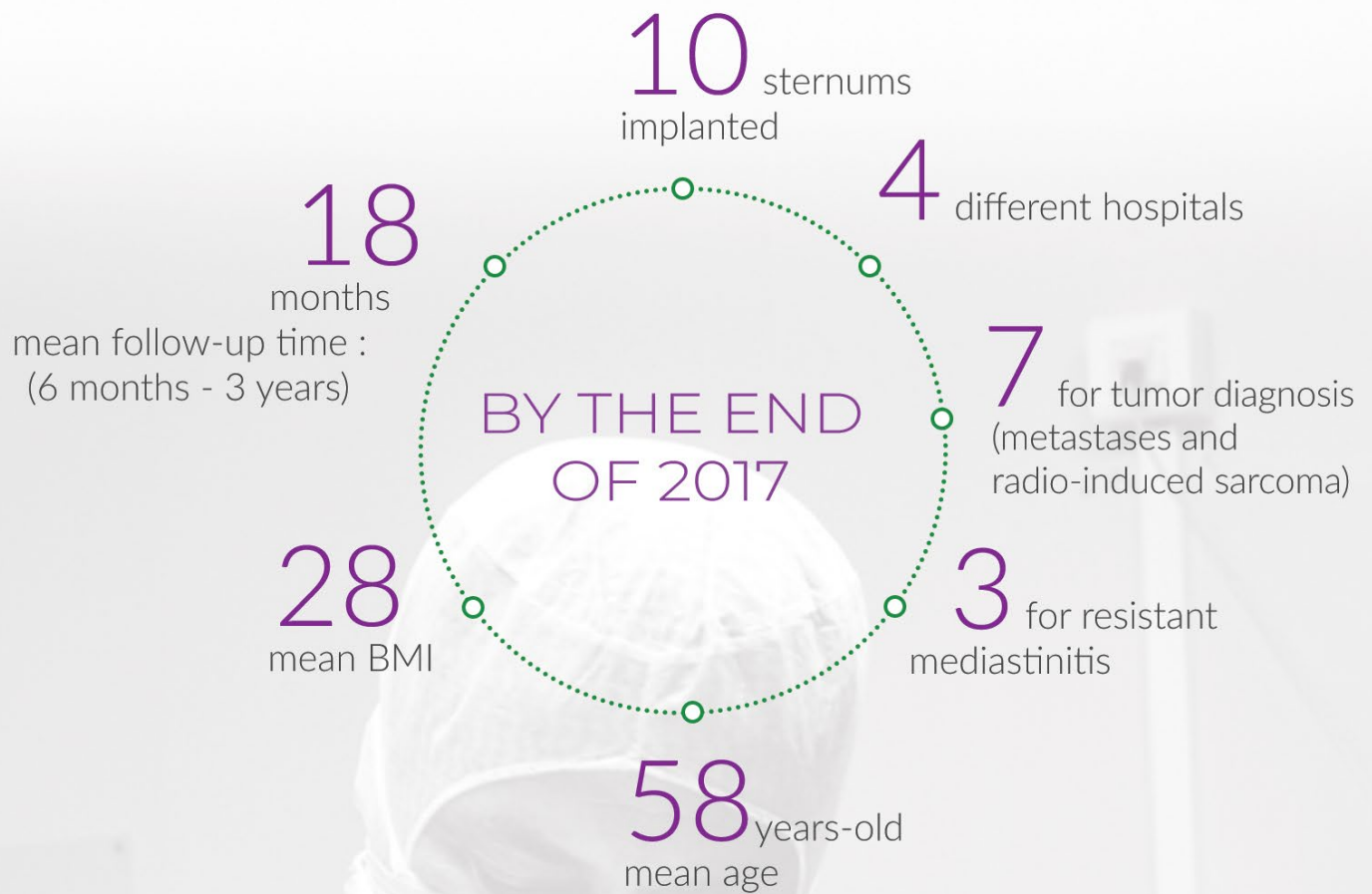


Draining and suturing
of soft tissues and skin

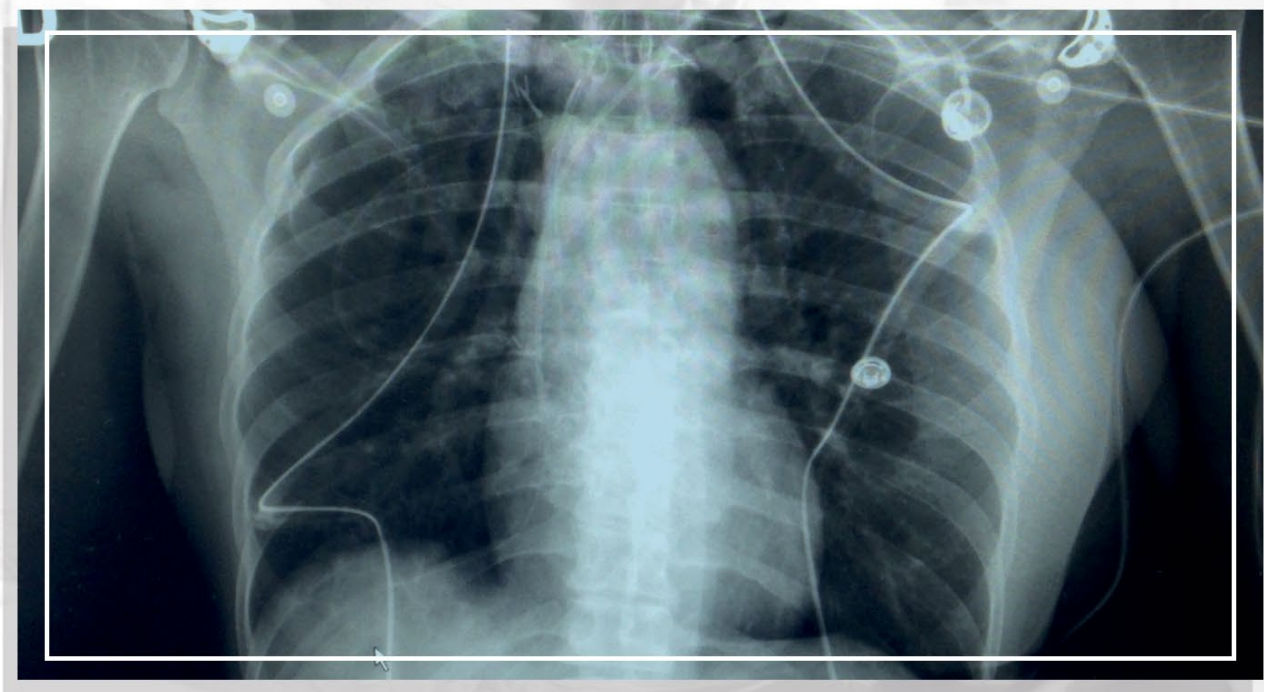
LOW RATE OF BACTERIAL COLONISATION



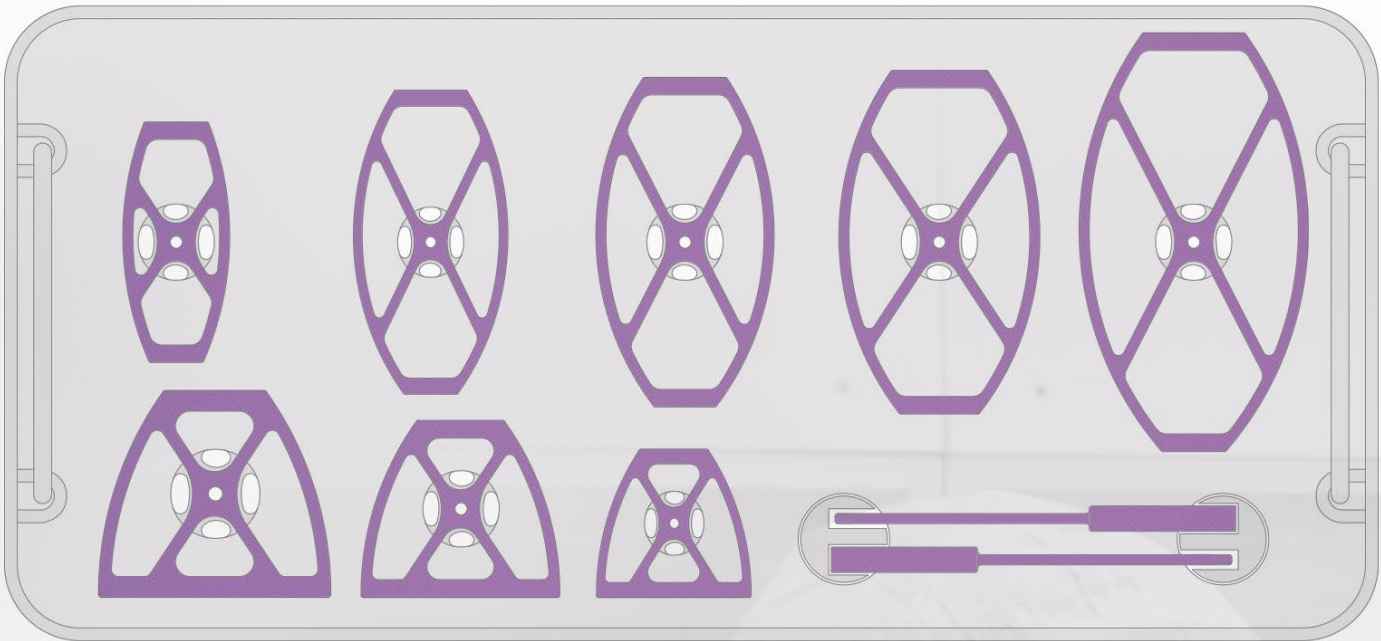
KEY FIGURES REGARDING THE FIRST IMPLANTATIONS



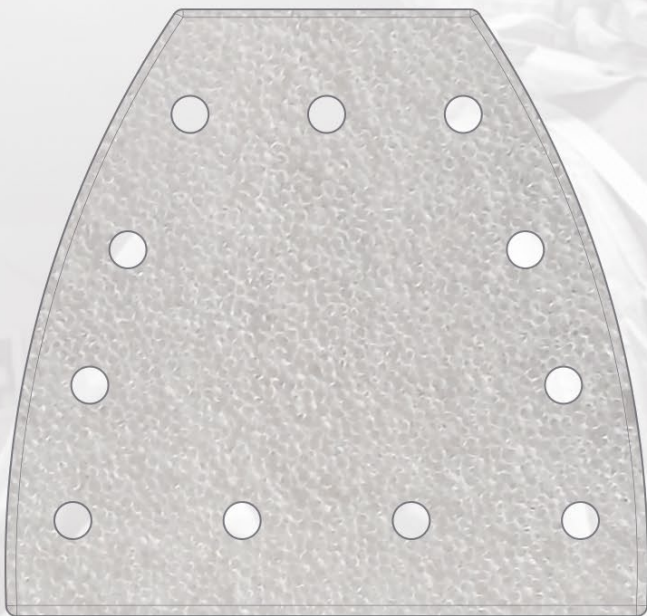
OPTIMIZED FOLLOW-UP THANKS TO LOW-ARTIFACT X-RAY IMAGES



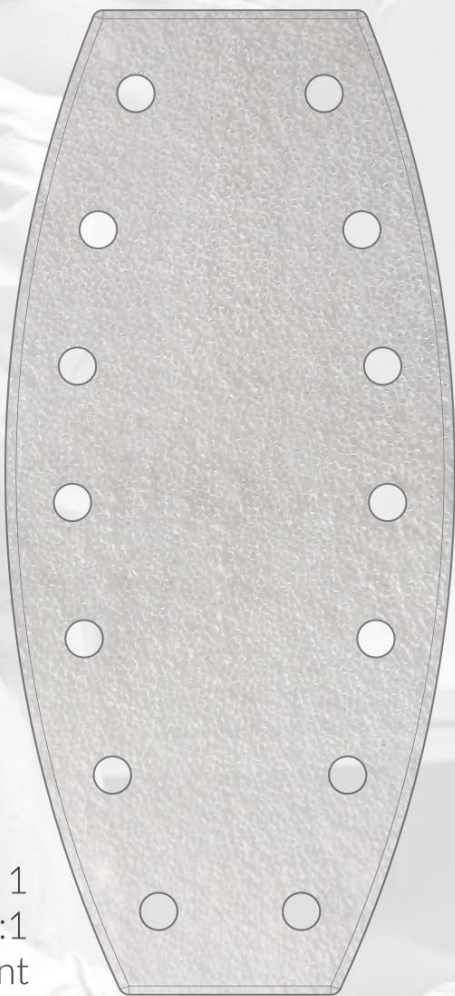
SIMPLE AND UNIQUE INSTRUMENT SET



8 trial implants (5 complete and 3 half sizes)



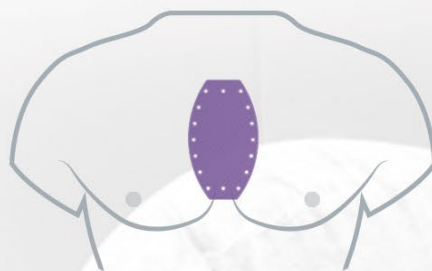
Size 1H
Scale 1:1
Manubrium replacement



Size 1
Scale 1:1
Complete sternal replacement

AVAILABLE RANGE OF IMPLANTS

COMPLETE STERNUM (sterile unit packaging)

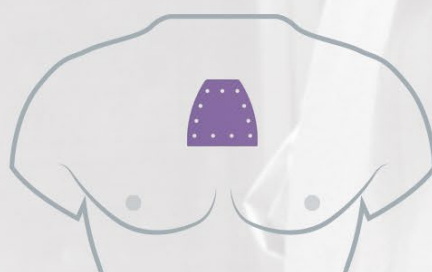


References

Size (Length x Maximal Width x Thickness)

ST01/3B/T1	92 x 42 x 5 mm
ST01/3B/T2	116,5 x 59,5 x 6 mm
ST01/3B/T2,5	129 x 69,5 x 6,5 mm
ST01/3B/T3	132 x 78 x 7 mm
ST01/3B/T4	163 x 87,5 x 8 mm

HALF SIZE STERNUM (sterile unit packaging)



References

Size (Length x Maximal Width x Thickness)

ST01/3B/T1-H	57 x 60 x 6 mm
ST01/3B/T2-H	70 x 75 x 7 mm
ST01/3B/T3-H	80 x 89 x 8 mm



Founded in 2005 in the heart of the technology park of Limoges, Limoges Technopole, **I.CERAM is a French company** with high technological value, specialized in the design, manufacturing and marketing of orthopaedic prostheses and ceramic implants. The company has decided to substantially speed up the development of its bioceramics. Its belief, backed by **20 years of clinical experience**, is that porous alumina has all the intrinsic qualities required to develop **revolutionary treatments** for bone metastases and bone infection.

As a member of the **European Ceramics group**, **France Biotech** and the **Cancer-Bio-Santé** competitive cluster, I.CERAM works with specialists from top level universities and educational institutions with one goal in mind, to enhance patient care and to facilitate the work of the surgeon.

6000

implantations
of ceramic
parts

20

years of clinical
experience in the field
of ceramic implants

0

infection and materials
vigilance linked
to implants

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