
**Paleoradiology and N.D.T. by X-rays - Visual abstracts about Radiology and the past: secrets unveiled /
Paleorradiologia e A.N.D. por Raios-X — Abstractos Visuais sobre Radiologia e o Passado**

“2 Stories of How X-Ray/CT Restored What Time, Repair, or Circumstance Kept Obscured”

*“2 Histórias de Como os Raios X/TAC Repuseram o que o Tempo, Reparações ou
Circunstâncias Mantiveram Oculto”*

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Estudos colaborativos com:

- o Arqueólogo F.E. Rodrigues Ferreira (†) e sua equipa, em “Causas de Morte de Damião de Góis”
- o Museu Nacional de Arqueologia, Dr. Luís Raposo e sua equipa.

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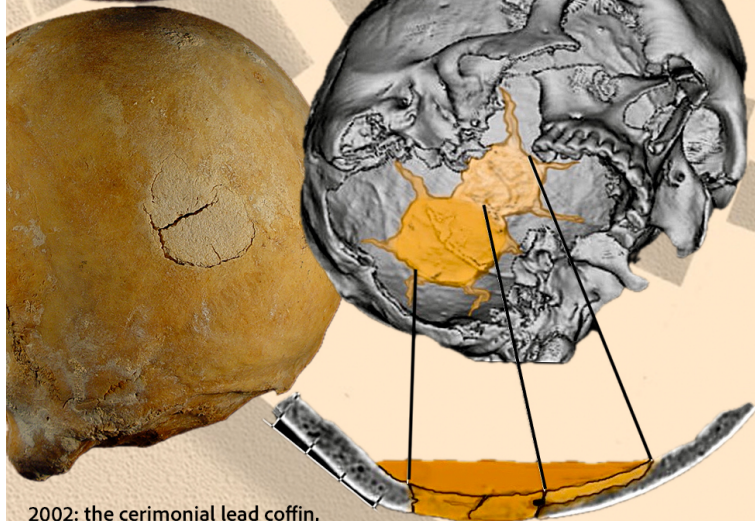
VISUAL ABSTRACTS about RADIOLOGY and the PAST: secrets unveiled

SPRMN — Section of Paleoradiology and N.D.T. by X-Rays (2 case(s) nº8)

2 stories of how X-Ray/CT restored what time, repair, or circumstance left obscured.

Damião de Góis (1502–1574) / 1941 - Exhumation

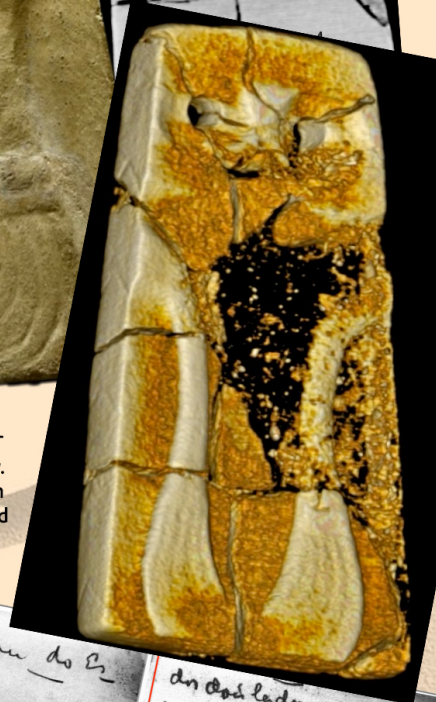
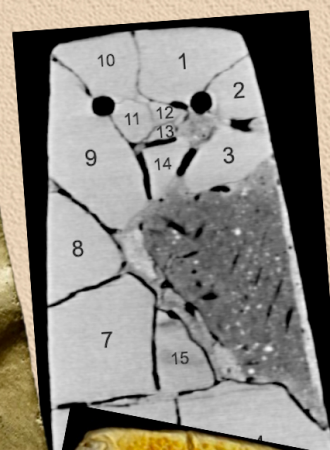
In 1941, remains presumed to be those of the famous humanist were transferred to a commemorative lead coffin. In 2002 an investigative re-exhumation and radiographic study of the coffin's contents revealed a commingled assemblage — bones of multiple individuals, differing sex and age — and a cranium whose estimated age at death was incompatible with 72 years. Also a lesion, previously interpreted as peri-mortem trauma and cause of death, was shown by CT to be taphonomic. The 1941 transfer took place under high civic and political expectation; the radiographic record, decades later, tells a different story. In all likelihood, the humanist was never there.



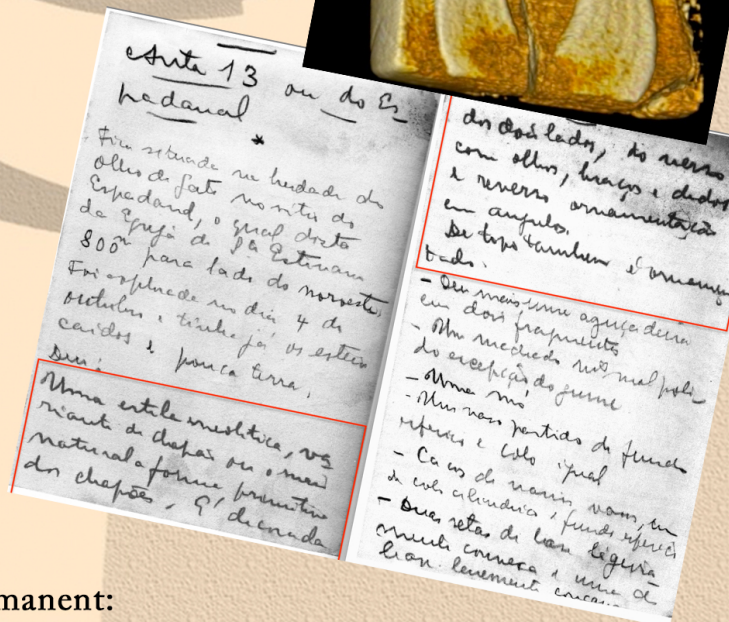
2002: the ceremonial lead coffin, its contents and bottle (with a 1941 deposition note), the skull lesion and its CT 3D map (taphonomic corrosion).

“Anta do Espadanal” Plaque / 1930s - Site Excavation

This anthropomorphic sandstone plaque, a landmark of Portuguese Chalcolithic art, was then unearthed, apparently intact. However, in 2007, Radiography and CT revealed a through-and-through fracture pattern consistent with a single high-energy impact at the excavation, very probably from a pickaxe. That event was masked by a later skilful restoration, but undocumented. Its field diary records the piece as undamaged, yet, in its entry seemingly done the same day, both the writing tool and line spacing differ from the rest of the text.



The Plaque, its 2007 CT fragments and 3D view. Below, the handwritten field diary with inserted entry.



Structural truths in cultural heritage are rarely permanent:
Trough Paleoradiology and NDT no artifact's interior can be presumed forever hidden.