Supplementary material: results from the shear wave speed characterisation tests using the CEM43 scale defined by Sapareto and Dewey (1984)

Leon Zurfluh[1,2], Antonio Callejas[1,2,3] and Antonio Gomez[1,2,3,4]

[1]Department of Structural Mechanics and Hydraulic Engineering, University of Granada, Granada, 18071 Campus de Fuentenueva S/N, Spain
[2]TEC-12 Group, Biosanitary Research Institute, ibs.Granada, Granada, 18012 Avenida de Madrid 15, Spain
[3]Excellence Research Unit 'ModelingNature' (MNat), University of Granada, Granada, 18071 Campus Fuentenueva S/N, Spain
[4]UCL Mechanical Engineering, University College London, London WC1E 7JE, United Kingdom

E-mail: `ajgomez@ugr.es`

March 2025

The Shear Wave Speed (SWS) values obtained from test type 1 and test type 2 are presented here as a function of the original CEM43 scale defined by (Sapareto & Dewey 1984) (Figures S1 and S2), to allow comparison with the results shown in the main article, where the CEM43 scale was modified according to the parameters proposed by (Bhowmick et al. 2004) for human prostate tissue.

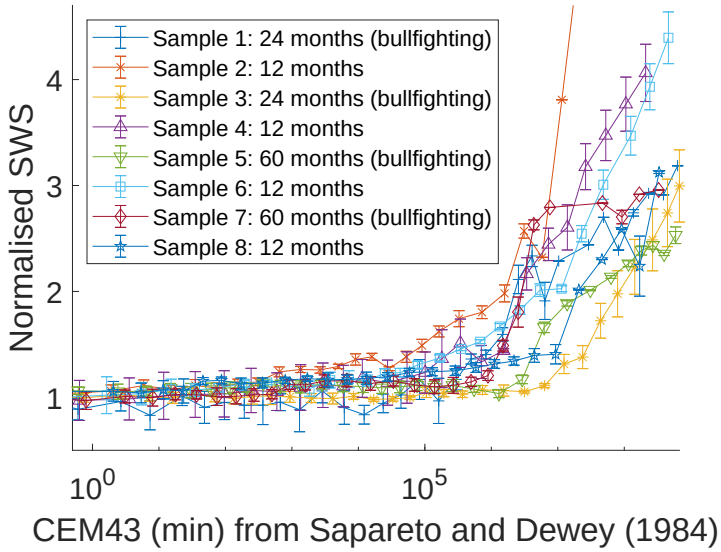

Figure S1: SWS measurements from ex vivo bovine prostatic samples during constant-rate heating test at 1 °C/min, shown as a function of thermal exposure using the CEM43 scale as defined by (Sapareto & Dewey 1984). Data points and whiskers correspond with the mean and standard deviation of SWS estimation over 5 different ROIs.

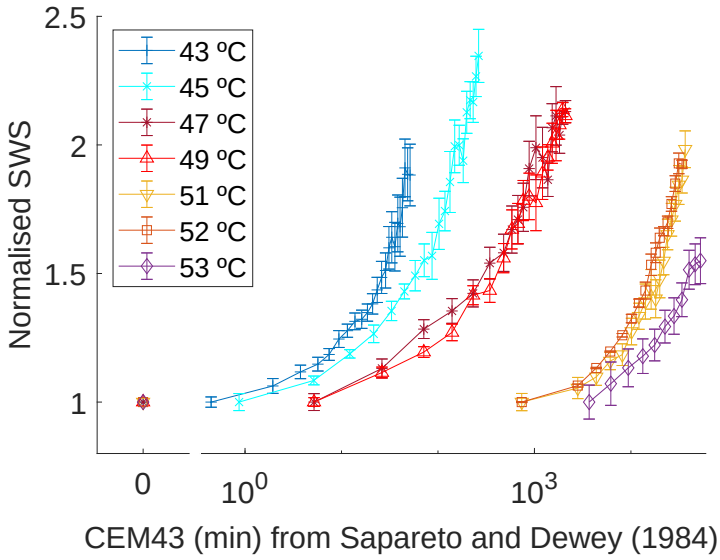

Figure S2: SWS measurements from ex vivo bovine prostatic samples during the steady temperature test (test type 2), shown as a function of thermal exposure using the CEM43 scale as defined by (Sapareto & Dewey 1984). Data points and whiskers correspond with the mean and standard deviation of SWS estimation over 5 different ROIs.

References

Bhowmick, P., Coad, J. E., Bhowmick, S., Pryor, J. L., Larson, T., Rosette, J. D. L. & Bischof, J. C. (2004), 'In vitro assessment of the efficacy of thermal therapy in human benign prostatic hyperplasia', *International Journal of Hyperthermia* **20**(4), 421–439.

Sapareto, S. A. & Dewey, W. C. (1984), 'Thermal dose determination in cancer therapy', *Int. J. Radiat. Oncol. Biol. Phys.* **10**(6), 787–800.