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Erratum: Measurement of the toughness of bone: A tutorial with special reference to small animal studies

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We note an error in the text associated with the stress–intensity equations of Takahashi [1]:

Eq. (6) for the σ_b , the applied bending stress should read:

$$\sigma_b = \frac{M}{\pi R_m^2 t} \quad (6)$$

Also Eq. (9) for the fracture toughness K_c should be:

$$K_c = F_b \frac{P_c S R_o}{\pi (R_o^4 - R_i^4)} \sqrt{(\pi R_m \Theta_c)} \quad (9)$$

Note that these were transcription errors. The correct formulas were used in the calculations of our report and this Erratum does not affect our reported data.

Reference

- [1]. Takahashi Y. Evaluation of leak-before-break assessment methodology for pipes with a circumferential through-wall crack. Part I: stress intensity factor and limit load solutions. *Int J Pres Ves Pip*. 2002; 79:385–92.

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