Supplementary material – Figure S1

Figure S1: Course of callus stiffness ($K_C$) over the healing time ($t_H$) under rigid (top) and flexible (bottom) fixation. Bars indicate *in vivo* data (statistical means and 95% confidence intervals) from the rat experiment [26]. Lines show results of a sensitivity study using the calibrated numerical model. Therefore, the following parameters were varied as follows to create 30 different combinations: gap size by 0.1 mm, offset of the fixator body by 0.5 mm, and the bodyweight by 25 g (all standard deviations). Progresses of statistical mean, standard deviation, minimum and maximum data are shown. Standard deviations were up to 14% for the rigid and up to 20% for the flexible group. Maximum range of the callus stiffness was up to 57% (rigid) and 77% (flexible) of the intact bone stiffness.