

3D printing of patient-specific implants for osteochondral defects: workflow for an MRI-guided zonal design

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SUPPLEMENTARY MATERIAL

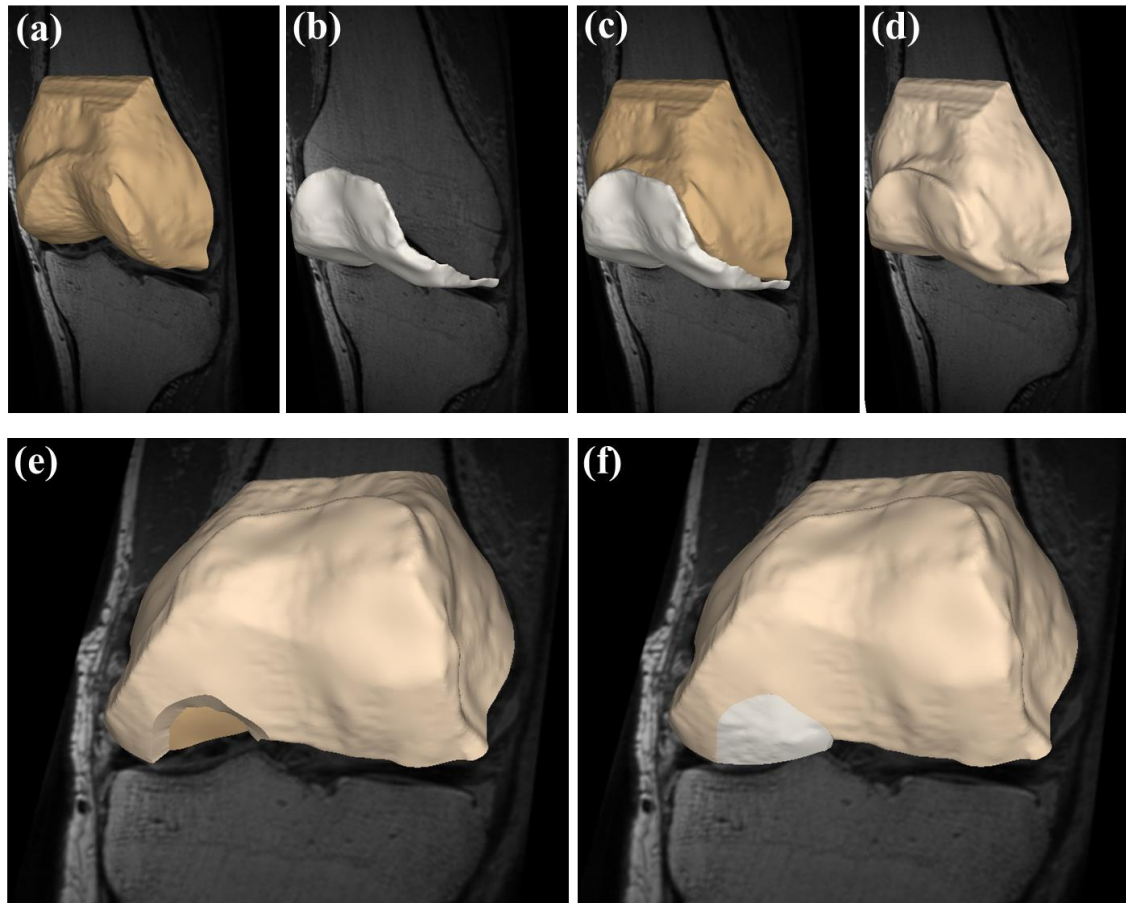


Figure S1: Segmented models of the defect site and the implant geometry. (a) 3D geometry of the segmented bone phase (brown) of the FC in a virtual, visualizing combination with the respective MRI image (b) Segmented AC zone (grey) of the FC. (c) Combined biphasic combination of bone (brown) and AC (grey) model. (d) Combined segmentation of FC and AC (beige). Defect site in the medial FC without (e) and with (f) added implant geometry (grey).

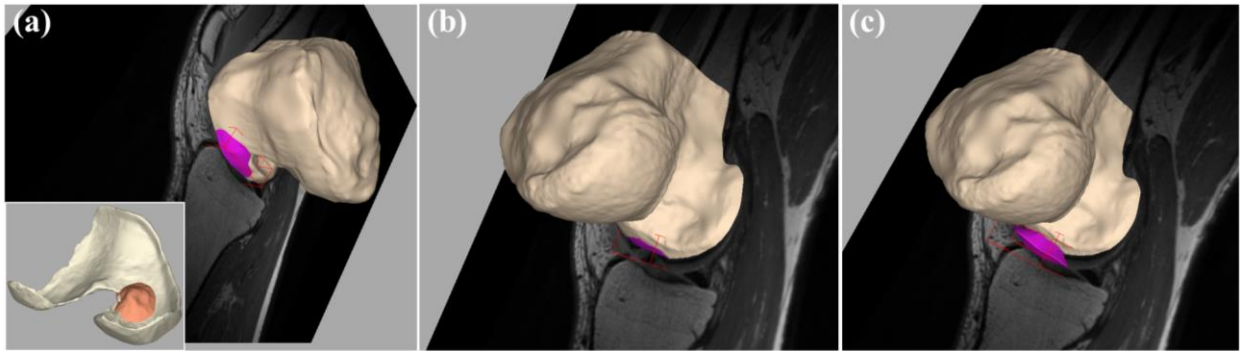


Figure S2: (a, b) Fitting of the implant geometry (violet, insert: bone-facing geometry of the AC and defect-facing geometry of the bone zone) into the combined AC+FC model (beige) in various spatial orientations and with partially removed implant geometry (c)