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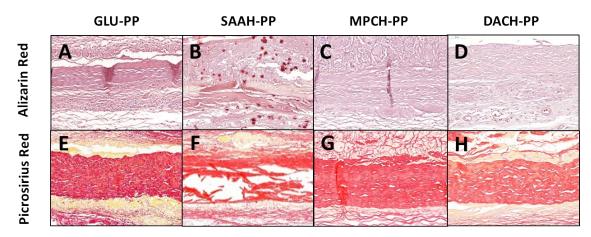


Fig. S1. Histological characterization of GLU-PP,SAAH-PP,MPCH-PP and DACH-PP samples after subcutaneous implantation for 21 days in SD rats. (A-D) Alizarin red staining. Ca deposition was stained deep red. (E-H) Pirosirus red staining. Collagen fibers was stained red to show the structure integrity.

Supplemental Video Legends:

Supplemental Video 1. Video of GLU-PP sample recovering in PBS after being folded for 10 days. **Supplemental Video 2**. Video of SAAH-PP sample recovering in PBS after being folded for 10 days.

Supplemental Video 3. Video of MPCH-PP sample recovering in PBS after being folded for 10 days.

Supplemental Video 4. Video of DACH-PP sample recovering in PBS after being folded for 10 days.