

Supporting information of

Phase-Changeable and Bubble-Releasing Implants for Highly Efficient HIFU-responsive Tumor Surgery and Chemotherapy

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Movie S1: The swift phase change of PED oleosol upon contacting water. NMP was diffused into surrounding water and no apparent DOX and CO₂ MBs releasing can be found.

Movie S2: The swift breakdown of effervescent disintegrant (NaHCO₃ and citric acid) upon contacting saline.

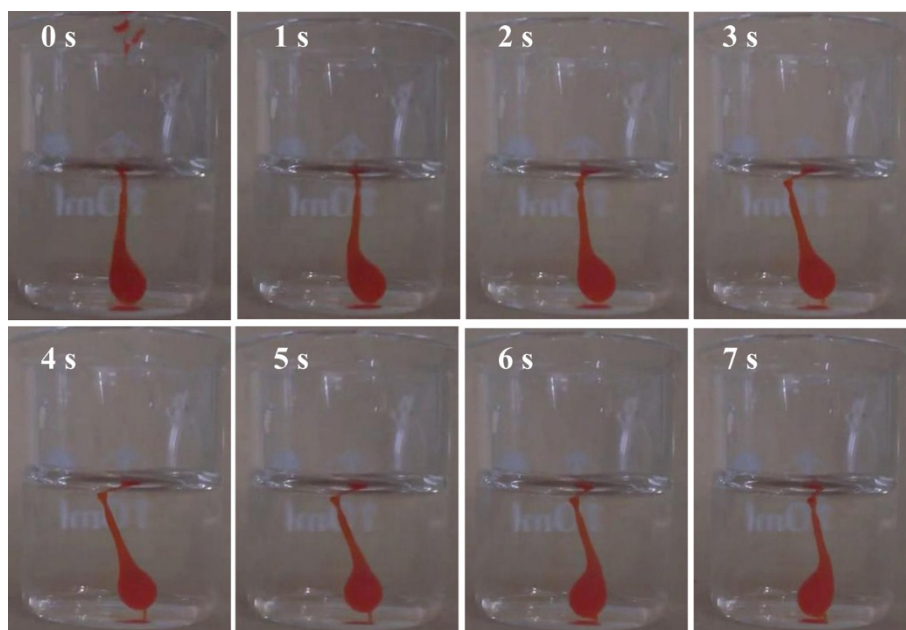


Figure S1: Time-dependent liquid-to-solid phase transition of PED oleosol upon contacting water (these images were originated from movie S1).

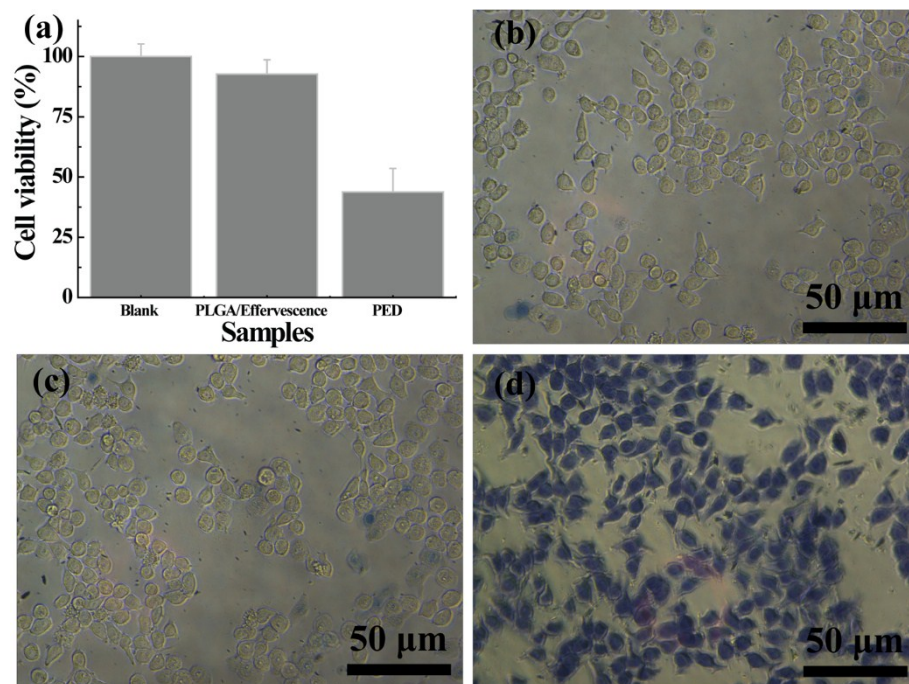


Figure S2: In vitro anti-tumor efficiency of different implants. (a) Cell viability of L929 cells after the treatment with saline (blank), PLGA/effervescent or PED implant, respectively. (b-d) Corresponding trypan blue staining results of cells treated with saline (blank), PLGA/effervescent or PED implant, respectively.