

Supporting information

**Multifunctional antibiotics-free hydrogel dressings with self-regulated
nitric oxide-releasing kinetics for improving open wound healing**

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Table S1 The precursor ratios of the hydrogels.

Sample	GelMA (μL)	Chi-SNO (μL)	Chi (μL)
GC	300	0	50
GCNO50	300	50	0
GCNO100	300	100	0
GCNO200	300	200	0

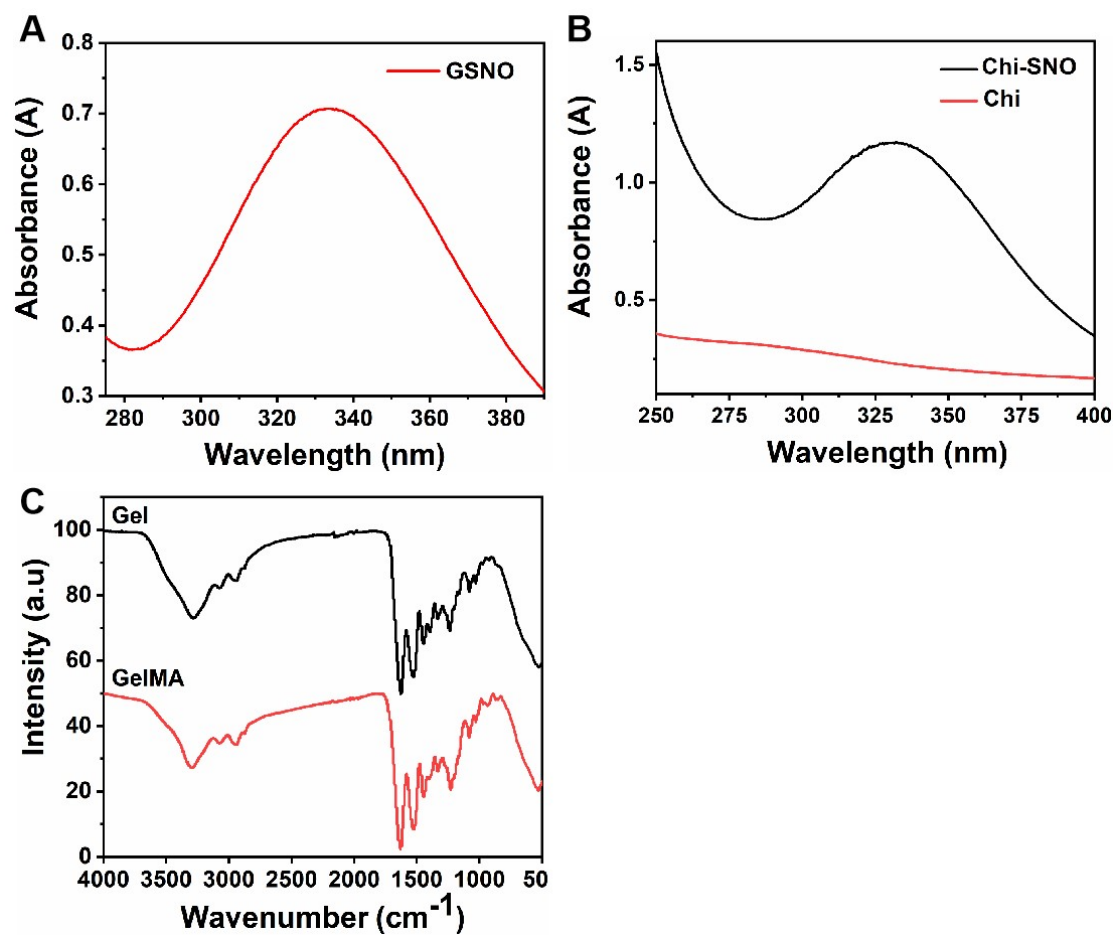


Fig. S1 (A) Characteristic UV absorption peak of GSNO. (B) Characteristic UV absorption peak of Chi and Chi-SNO. (C) FT-IR of Gel and GelMA.

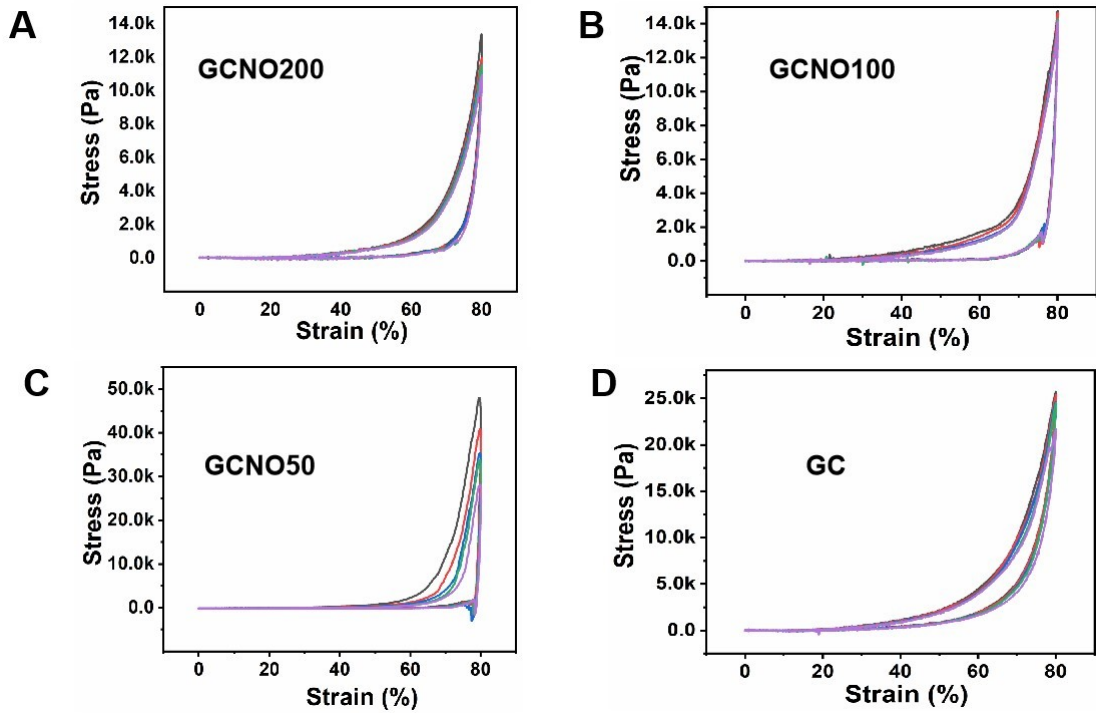


Fig. S2 (A, B, C, D) Cyclic compression stress-strain curve of different samples.

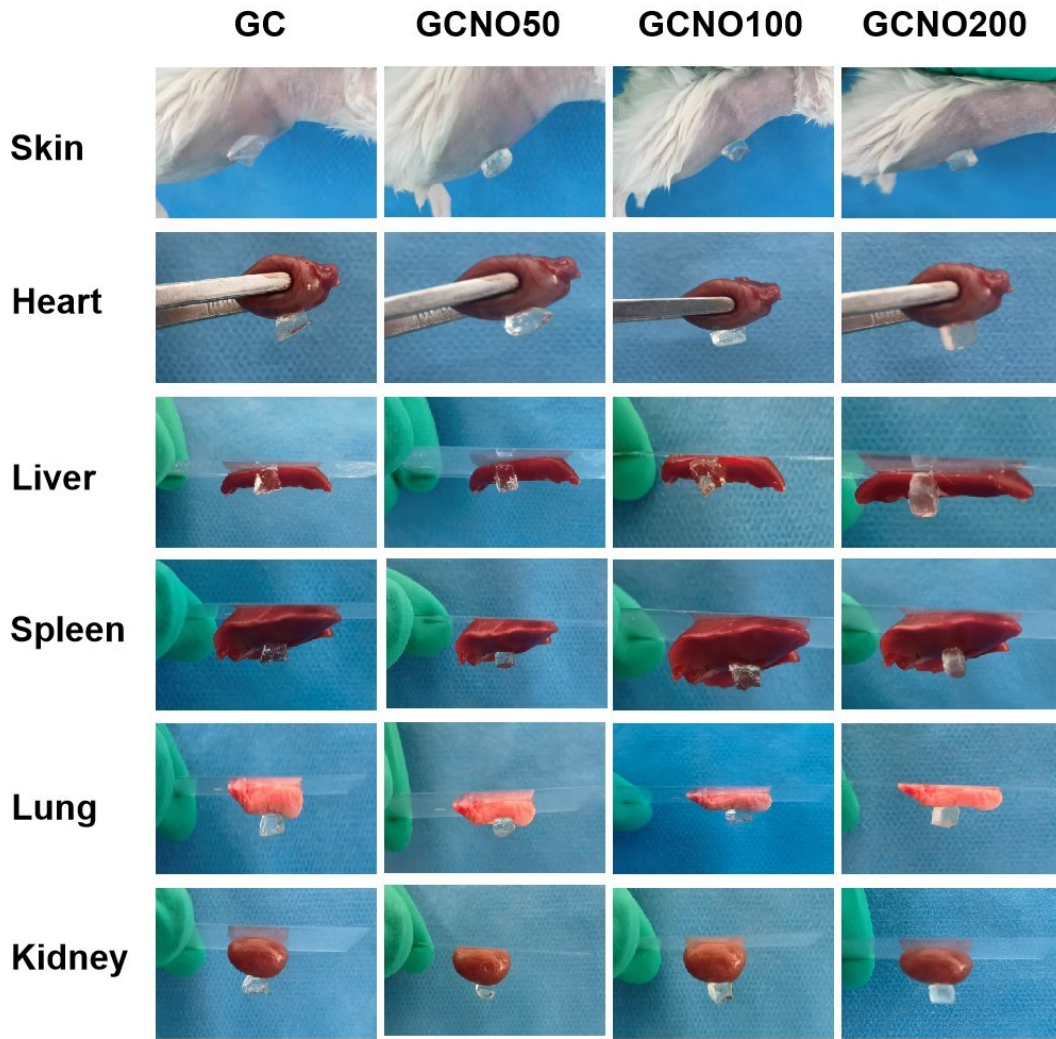


Fig. S3 Adhesion properties of hydrogels on major organs and skin.

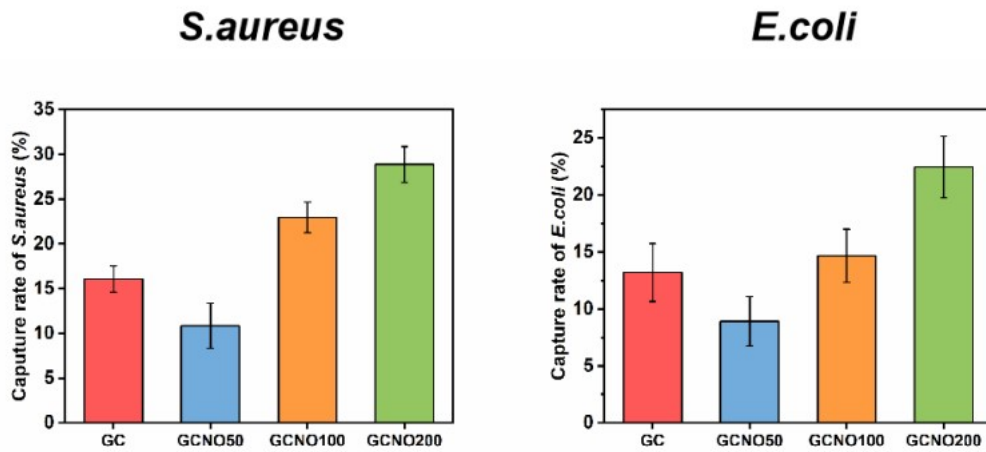


Fig. S4 Capture of *S. aureus* and *E. coli* with different treatment.

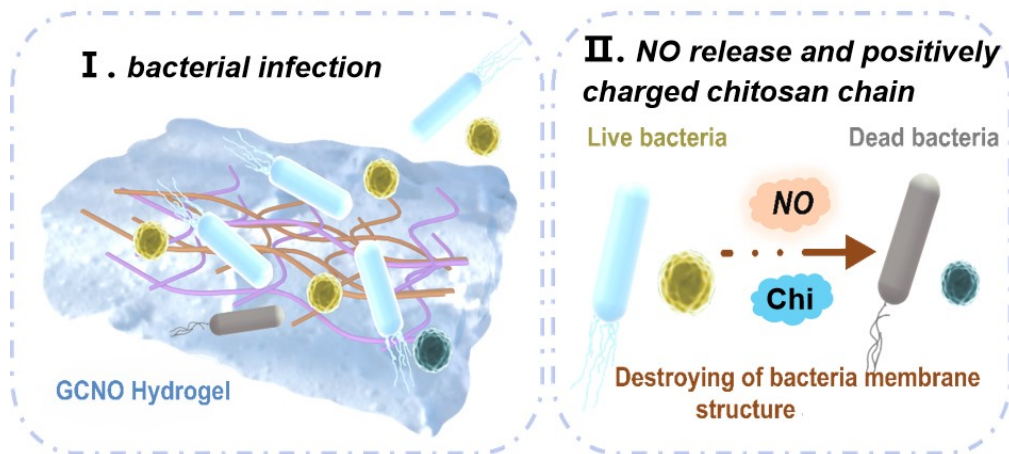


Fig. S5 Diagram of sterilization mechanism.

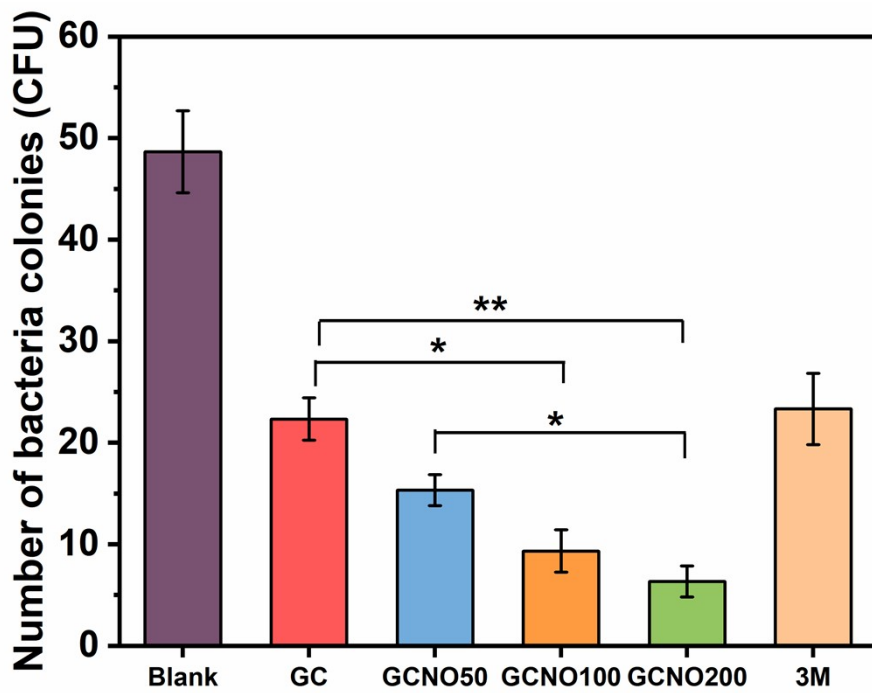


Fig. S6 The number of bacteria colonies from the animal wounds with different treatment.