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Poly(trimethylene carbonate) flexible intestinal anastomosis scaffolds to reduce the probability of intestinal fistula and obstruction

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The dried sample was dissolved in the mixed solution of chloroform/DMF (9/1, V/V). The concentration of the prepared solution was 5.5 (w/w) %. The prepared solution was placed in a 2.5 mL syringe containing a metal needle with an inner diameter of 0.5 mm. The specific electrospinning conditions were presented in Table S1[30]. The obtained fibers were further dried at room temperature for 24 h to remove residual organic solvents and moisture. The spun samples were used for mechanical properties testing and in vitro degradation test.

Table S1. Electrospinning conditions

Needle push speed	Distance between needle and receiver	Roller speed	Voltage	Temperature	Humidity
1.0 mL/h	20 cm	400 RMP	15 V	35 ℃	25 %

Under the catalysis of $Sn(Oct)_2$, PTMC was synthesized by ring-opening polymerization (Fig. S1).

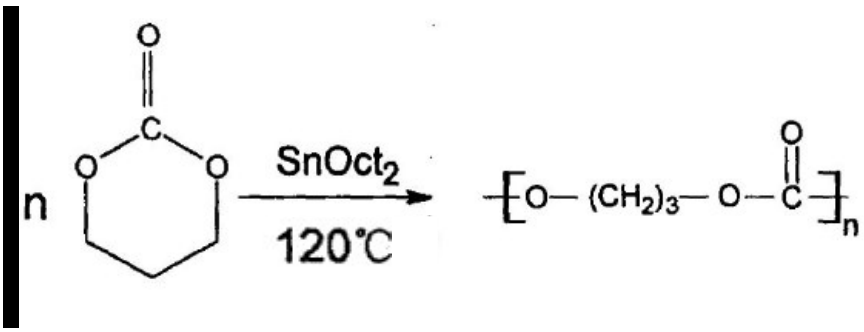

Figure S1. The synthesis process of PTMC.