

Hypochlorite-induced Porcine Model of Peritoneal Fibrosis Through The Activation of IL1 β -CX3CL1-TGF β 1 Signal Axis

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Running title: Porcine model of hypochlorite-induced peritoneal fibrosis

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Supplementary Figure 1 Operation of NaClO-injection and pathological changes of parietal peritoneum after NaClO-injury.

A. Ultrasonography was used to monitor the injection of sodium hypochlorite. Pre-injection evaluation was carried out thoroughly for the comparison with post-injection analysis. Injected sodium hypochlorite was monitored and marked with asterisks. I: intestine; L: liver. **(B)** 3D reconstruction images confirmed the integrity of mesothelium and accumulation of α SMA⁺ myofibroblasts in the submesothelial tissue of control and hypochlorite-injured pigs.

Supplementary Figure 2 Laparoscopy procedures for antemortem evaluation of peritoneal fibrosis.

A. (1-2) Sodium hypochlorite was diluted with sterilized saline and was administrated via intraperitoneal injection in anesthetized pigs. (3) Injection site was indicated with arrow. (4) Pigs were placed in a high stand recovery room with heated lamp after NaClO injection. **B.** (1) Antemortem laparoscopy evaluation of peritoneal fibrosis was carried out as described in methods and material under aspectic condition. Incision site was marked with arrow. (2) Pneumoperitoneum was achieved by infusing CO₂ via a Veress needle. (3) A two-port technique was adopted for laparoscopic exploration and biopsy. A 5-mm laparoscope was introduced into abdominal cavity through one of the trocars. The laparoscopic instruments, such as palpating probe and biopsy cup forceps were introduced through the other trocar. (4) Discontinued suture was performed after thorough antemortem laparoscopy evaluation.

Supplementary Video 1 Laparoscopy examination of peritoneal cavity of control pig (1 week after normal saline injection). Representative video was presented.

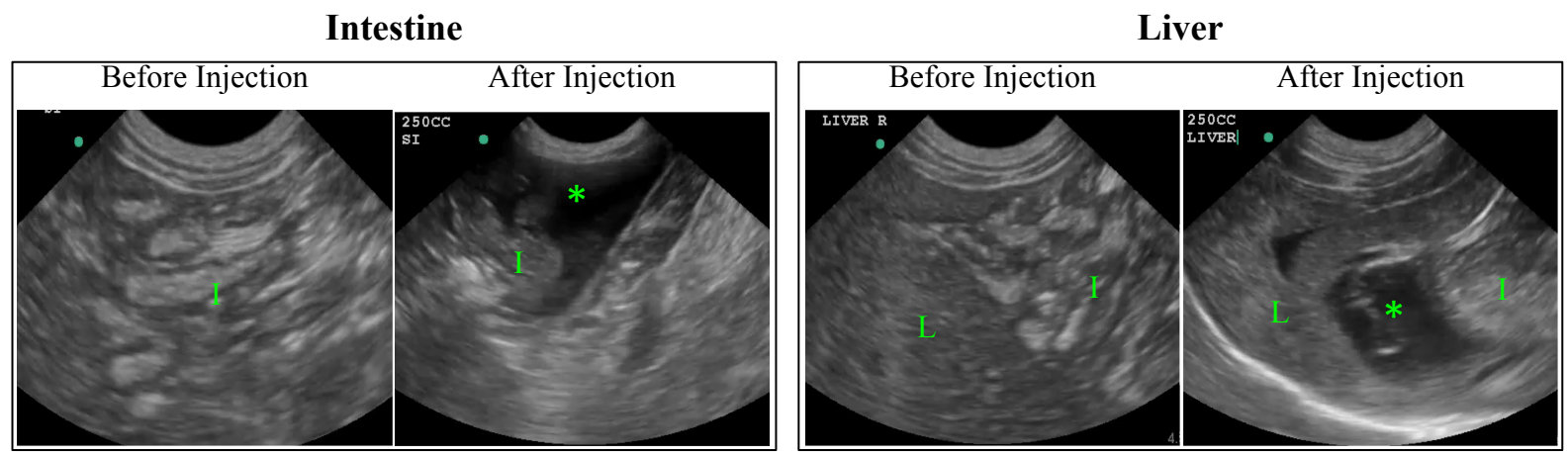
Supplementary Video 2 Laparoscopy examination of peritoneal cavity of 0.05% NaClO-injured pig (1 week after injection). Representative video was presented.

Supplementary Video 3 Laparoscopy examination of peritoneal cavity of 0.1% NaClO-injured pig (1 week after injection). Representative video was presented.

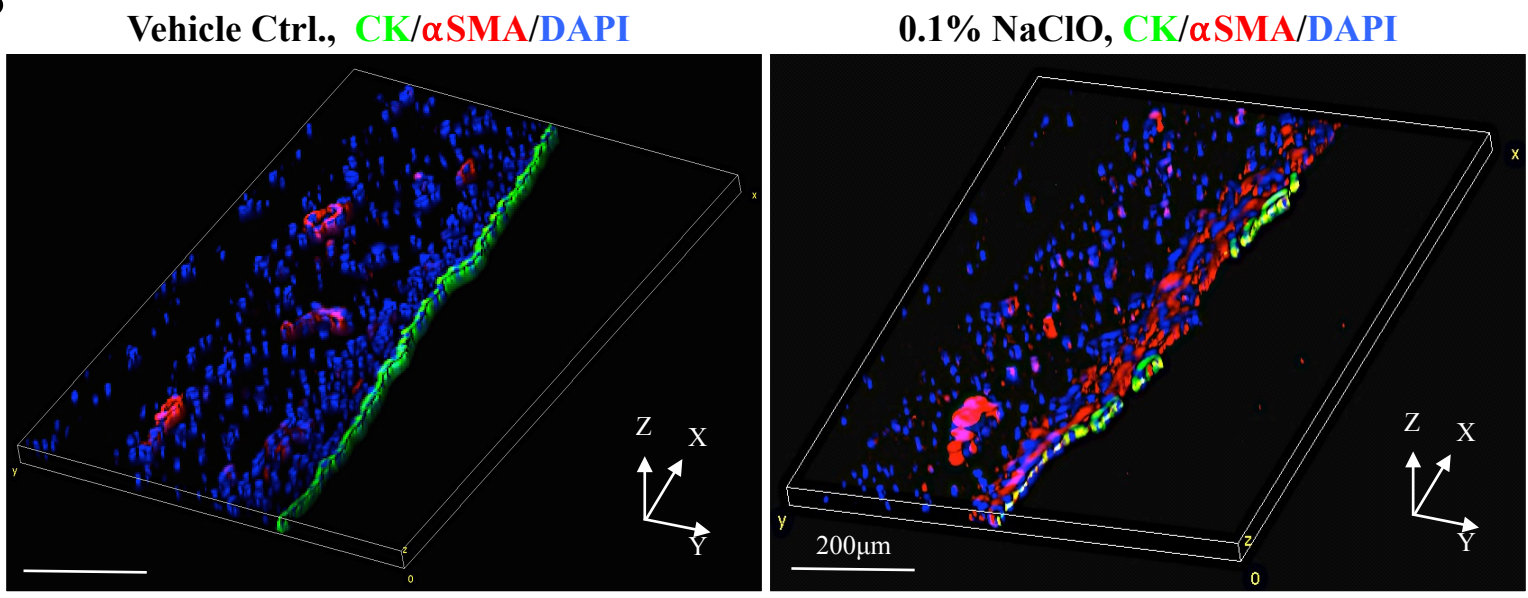
Supplementary Video 4 Laparoscopy examination of peritoneal cavity of 0.2% NaClO-injured pig (1 week after injection). Representative video was presented.

Supplementary Figure 1

A

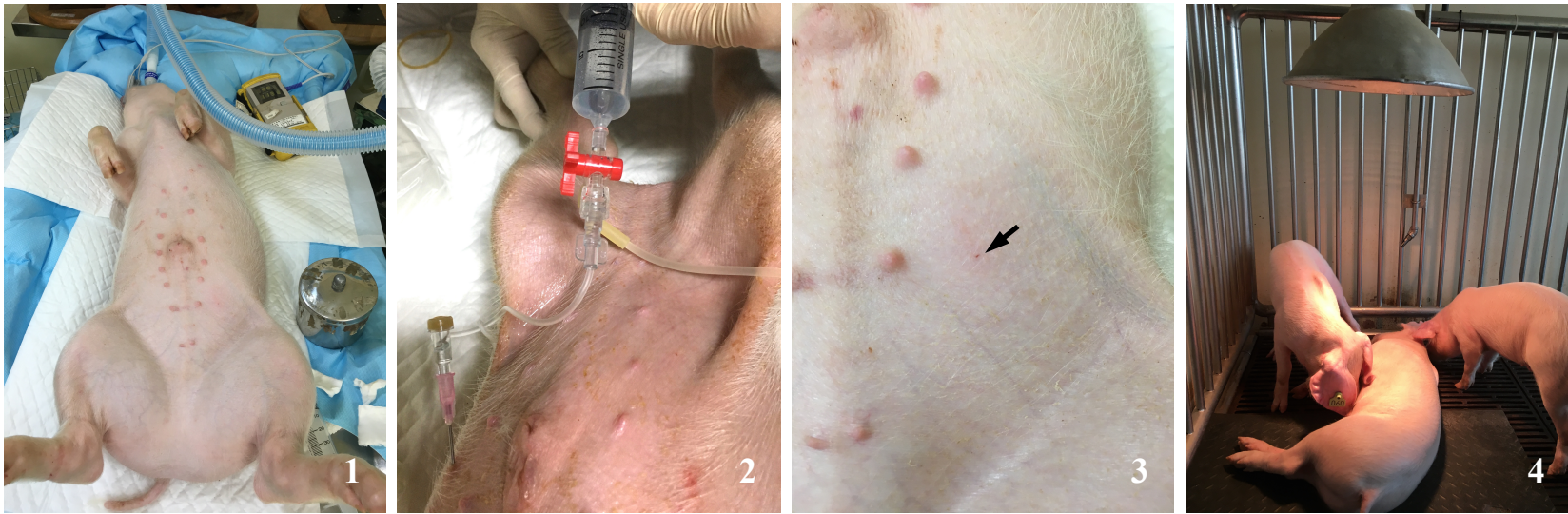


B



Supplementary Figure 2

A



B

