Supplementary file 1: Indicator usability score assessment

The following questions addressing six dimensions will be assessed:

<u>Experience</u>

1. How many pancreatic resections have you done so far in your career as a responsible surgeon?

   (<25/25-75/>75)

2. In how many procedures/surgeries have you used the SmartPAN device?

   (0/1/2/>2)

<u>Ease of use</u>

3. SmartPAN was easy to remove from its package.

   (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

4. SmartPAN was easy to use.

   (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

   If disagree/strongly disagree, please specify:

5. It was easy to apply SmartPAN in a homogenous layer.

   (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

   If disagree/strongly disagree, please specify:

6. A complete removal of the indicator from the abdominal cavity was achieved.

   (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

   If disagree/strongly disagree, please specify:

<u>Usefulness</u>

7. Was there a color change?

   (yes/no)

   If a color change (from orange to blue) occurred:

   a) How fast did the color change occur?

      (<30 sec/30s-3min/>3min)

   b) How many areas of color change appeared?

      (1/2/≥3)

   c) How big was the overall diameter which presented a color change?

      (<2mm/2-9mm/>9mm)

   d) The color change was precise (not blurry).

      (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

   e) Durability of color change was appropriate for surgical use (over minutes).

      (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

   f) How many extra stiches did you apply after color change?

      (0/1/>2)

g) Did you re-apply SmartPAN after targeted closure?

(Yes/No)

- If yes, did it still indicate a leakage?

  (Yes/No)

- Did you do a second round of targeted closure?

  (Yes/No)

- If yes, how many stiches?

8. SmartPAN is useful for my work.

   (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

Ease of learning

9. I learned how to use SmartPAN quickly and easily.

   (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree).

Intention to use

10. I would like to use SmartPAN frequently.

    (Strongly disagree/Disagree/Neither agree nor disagree/Agree/Strongly agree)

Safety

11. Were there any intraoperative adverse events associated with the use of the product?

    (Yes/No)

    If an intraoperative adverse event occurred, name event: