

ASSESSING USEFULNESS OF A STRUCTURED PROGRAM FOR TEACHING PANCREATOJEJUNOSTOMY TO SURGICAL RESIDENTS AND FELLOWS OUTSIDE THE OPERATING ROOM

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Aim
Assess usefulness of an **outside the OR pancreatojejunostomy¹ (P-J) teaching program**

Conclusion

- Program **highly-rated** by trainees
- **Improved confidence**
- Possible **useful indicator of trainee skill level**

Subjects & Methods

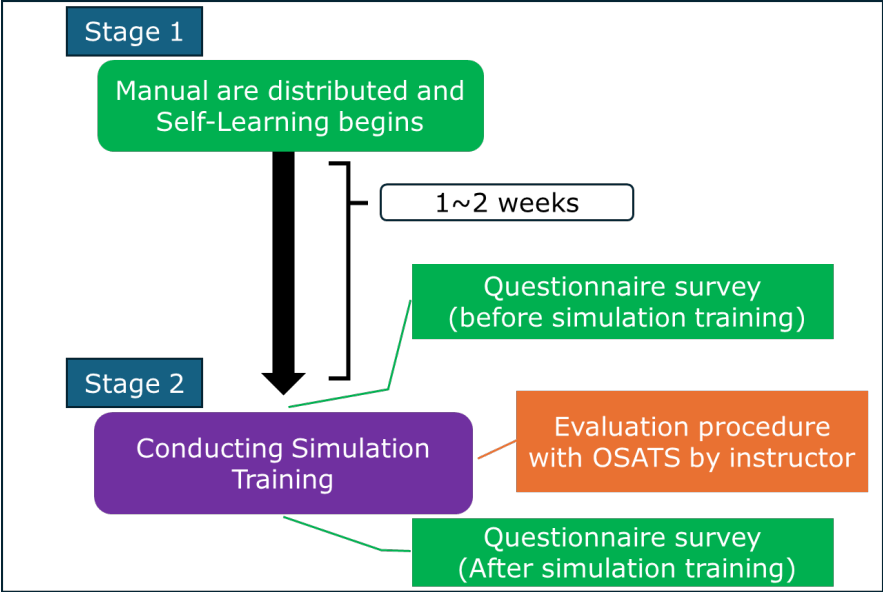
Trainees

	Group R	Group F
Number	11	6
Male : Female	7 : 4	5 : 1
Surgical Training Period(years) mean (range)	4 (2~6)	10.6 (8~12)
Number of experienced PD* ¹		
0 case	11	0
1~9 cases	0	5
≥10 cases	0	1
Number of experienced P-J* ²		
0 case	11	3
1~5 cases	0	2
≥5 cases	0	1

Japanese Surgical Society Certification:
F = Yes, R = No

Models, Setting & View

Program & Study Flow



Manual

8-7. ligation of head side (㉞), tail side (㉟), abdominal side (㊱, ㊲, ㊳) (Fig.15)

- Knot is outside the pancreatic duct.
- First, you ligate ㉞ ant ㉟.
- Next, you ligate in the order of ㊱, ㊲ or ㊱, ㊲, ㊳.

Technical tips

- When you perform ligation, you should be careful about pancreatic injury.

Fig.15

9. Serosal layer suture in front of jejunum (3 hands in the center : ㊴, ㊵, ㊶) (Fig.16)

- Add marking.
- You insert a needle from the serosal incision of the marking circle and take a bit [about 10mm].
- You make ㊴ and ㊵, ㊴ and ㊶ overlap [about 1~2mm].
- You ligate in the order of ㊴, ㊵, ㊶.

OSATS Assessment

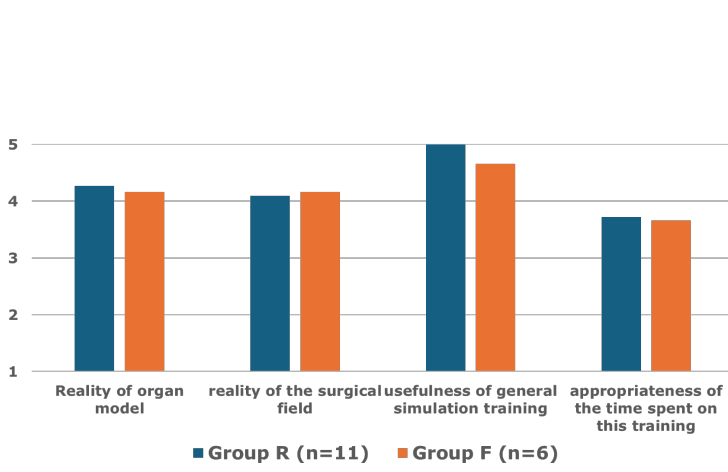
Flow of operation, Instrument Handling, Respect for Tissue, Knowledge of Specific Procedure, Total Points.

a Intestinal model (L), Pancreas model (R)
b Simulation training equipment
c Surgical field setting
d Training scene: trainee (L), instructor (R)
e Anastomosis in progress
f Completion

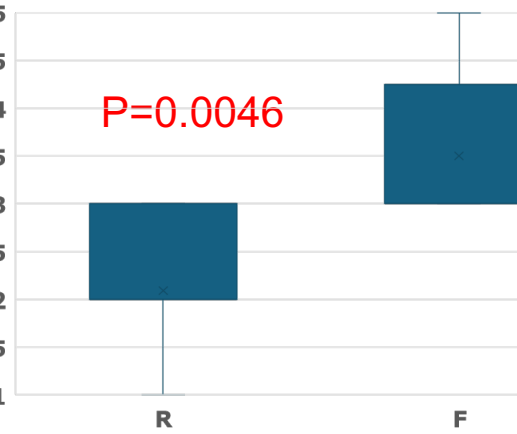
1) Oshiro, K., et al. (2021). "A structured program for teaching pancreatojejunostomy to surgical residents and fellows outside the operating room: a pilot study." *BMC Surg* **21(1)**: 102.

Results

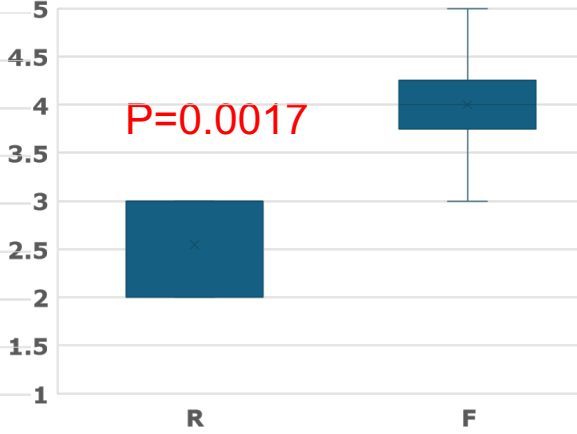
Rating



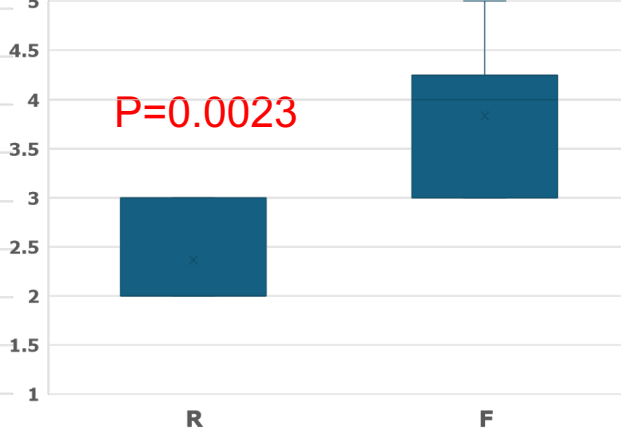
Flow of Operation



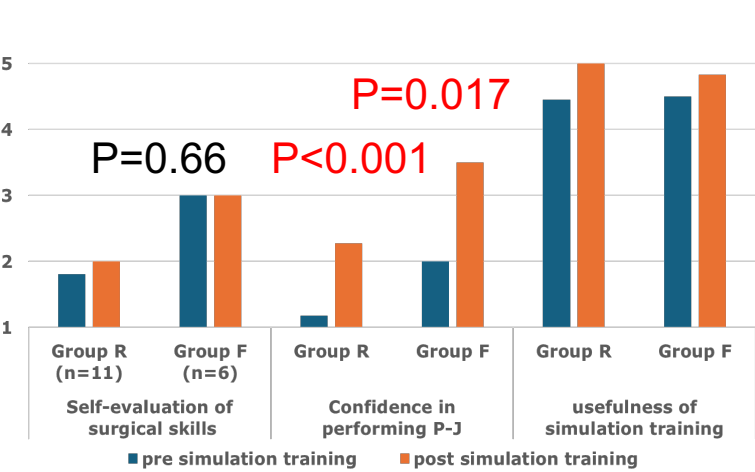
Instrument Handling



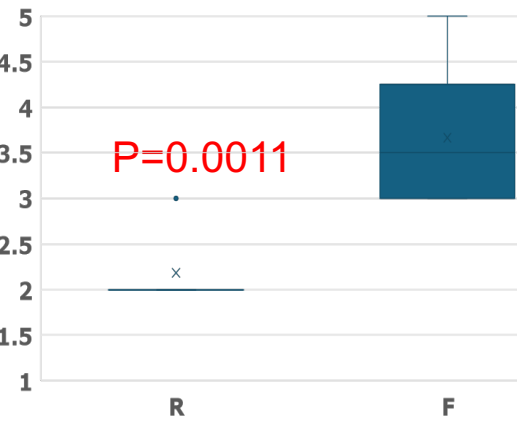
Respect for Tissue



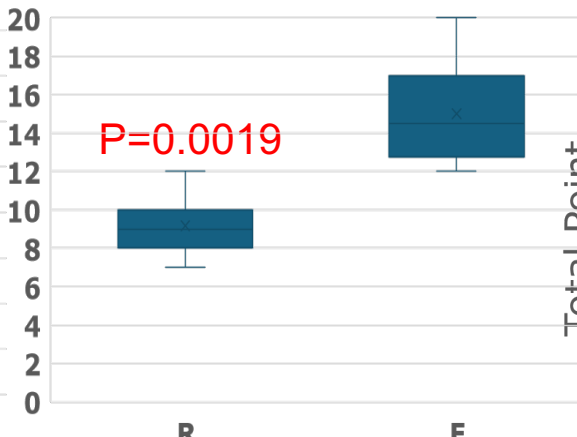
Self-Eval, Confidence, Usefulness



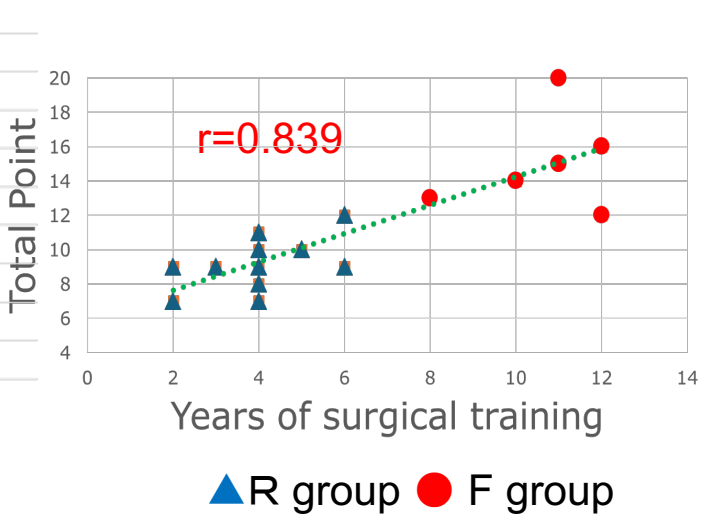
Knowledge of Specific Procedure



Total Point



Correlation: Training Yrs*Total Pts



Discussion

- Program received positive evaluation because it **adapted to learner needs**
- Addressed two learning areas: **Cognitive function & Psychomotor skills** → **Confidence↑**
- However, single session **insufficient** for acquiring & developing **competencies & autonomy**
- **Repeated program implementation necessary?**
- **OSATS** considered **useful** in determining if learners could **move to On-the-Job Training (OJT)**