Supplementary material

**Supplementary Fig. 1** Relationship between physician-patient communication, patient satisfaction with the treatment decision-making, and patient trust in physicians (hypothetical model).

*a*Data reversing the five-level rank values of TIPS.

*DRS* Decision Regret Scale, *TIPS* Trust in Physician Score
**Supplementary Fig. 2** Path diagram showing the relationship between physician-patient communication, patient satisfaction with treatment decision-making, and patient trust in physicians by categorical variables of patient background (multi-population simultaneous analysis). (a) By PRO2 remission and non-remission. GFI = 0.880, AGFI = 0.817, RMSEA = 0.101. (b) By the time spent with the physician when deciding on treatment. GFI = 0.857, AGFI = 0.782, RMSEA = 0.105. (c) By the patient decision-making preference scale score. The patient decision-making preference scale was stratified by median. GFI = 0.877, AGFI = 0.814, RMSEA = 0.099. Values represent standardized path coefficients that indicate the degree of relationship between variables.

*p<0.05.

aData reversing the five-level rank values of TIPS.

**AGFI** adjusted goodness of fit index, **DRS** Decision Regret Scale, **GFI** Goodness-of-fit index, **PRO2** two-item patient reported outcomes, **RMSEA** root mean square error of approximation, **TIPS** Trust in Physician Scale, **UC** ulcerative colitis

**a. By PRO2 remission/non-remission**

![Path diagram](image)
b. By the time spent with the physician when deciding on treatment

| Disease                  | 0.770* | 0.837* | 0.777* |
|--------------------------|--------|--------|--------|
| Endoscopy                | 0.693  | 0.890* | 0.777* |
| Treatment                | 0.787* | 0.639* | 0.777* |
| Medical costs            | 0.822* | 0.755* | 0.515* |
| Support                  | 0.503* | 0.356* | 0.590* |
| Precautions for daily life| 0.812* | 0.587* | 0.517* |

Physician-to-patient information

| Patient satisfaction (DRS) | 0.526* | 0.309* | 0.416* |
|---------------------------|--------|--------|--------|
| Patient trust in physicians (TIPS) | 0.553* | 0.602* | 0.655* |

c. By patient decision-making preference scale

| Disease                  | 0.787* | 0.808* |
|--------------------------|--------|--------|
| Endoscopy                | 0.649  | 0.714  |
| Treatment                | 0.799* | 0.499* | 0.775* |
| Medical costs            | 0.783* | 0.457* | 0.552* |
| Support                  | 0.413* | 0.585* | 0.583* |
| Precautions for daily life| 0.664* | 0.718* | 0.718* |

Physician-to-patient information

| Patient satisfaction (DRS) | 0.220* | 0.661* |
|---------------------------|--------|--------|
| Patient trust in physicians (TIPS) | 0.538* | 0.665* | 0.665* |

Upper: ≤ 2.50 (lower decision-making preference)
Middle: 2.50 to < 2.75 (higher decision-making preference)
Lower: ≥ 2.75 (higher decision-making preference)