

Original Design

A: "Prepare" Order

B: "Transfuse" Order

User-Centered Design

C: "Prepare" Order

D: "Transfuse" Order

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Supplementary Fig. S2 Comparison of the "prepare" and "transfuse" orders before intervention (original design) and after formative usability testing (UCD). UCD, user-centered design.

1) Which interface do you prefer overall?

Original No preference New

(Place a mark on the scale above)

Please describe how much you agree with the following statements:

2) The new system is easy to use

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

3) The new system allowed me to perform tasks efficiently

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

4) The new system was useful

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

5) Overall, I am satisfied with the new system

Strongly Disagree

Disagree

Neutral

Agree

Strongly Agree

Supplementary Fig. S3 Survey instrument used in step 5 of the summative usability test to evaluate users' preference between the user-centered design (UCD; "new system" in the survey instrument) and the original design, as well as their impression of the UCD orders, and order sets' ease of use, usefulness, efficiency, and overall rating.