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## Background

- People with advanced ovarian cancer and their caregivers report unmet communication needs
- Greater patient-centered communication is associated with better health-related quality of life
- Few communication interventions have been optimized for integration into routine practice
- The Collaborative Agenda-Setting Intervention (CASI) elicits patients' and caregivers' needs and preferences through the patient portal, then communicates these to clinicians
- The CASI was developed using human-centered design and integrated into the electronic health record
- The purpose of this study was to assess the usability and acceptability of the CASI

## Methods

- We purposively sampled English- or Spanish-speaking adults with advanced ovarian cancer, their caregivers, and clinicians from one gynecologic oncology program
- Participants used the CASI prototype during individual cognitive interviews, then completed a survey
- We assessed usability with the System Usability Scale (SUS) (range 0-100, scores  $\geq 68.0$  indicate above average usability)
- We measured acceptability and appropriateness with the Acceptability of Intervention Measure (AIM) and Intervention Appropriateness Measure (IAM) (range 1-5, higher scores indicate greater acceptability and appropriateness)
- Interviews were audio recorded, transcribed, and analyzed using conventional content analysis
- Survey data were analyzed using descriptive statistics

## Results

- Participants included 5 patients; 5 clinicians; and 4 caregivers (2 adult children, 1 spouse, and 1 friend)
- Self-identified as white, non-Hispanic (7/14), Asian-American (2/14), Native American (1/14); Hispanic (4/14); female (11/14)
- Patients and caregivers reported annual incomes  $< \$24,000$  (2/9),  $\$45,000-74,999$  (1/9),  $\$75,000-\$119,000$  (2/9), and  $\geq \$120,000$  (1/9) (3/9 declined to report)
- Patients and caregivers did not graduate high school (2/9); graduated high school (1/9) or college (3/9); or had post-graduate degrees (2/9) (3/9 declined to report)

Mean Usability

**71.0**

Out of 100; *SD*=16.6

Mean Acceptability

**3.9**

Out of 5; *SD*=1.1

Mean Appropriateness

**4.2**

Out of 5; *SD*=0.9

## Results

The fact that I can put it into my note is fantastic...and to know ahead of time, I think that is terrific.



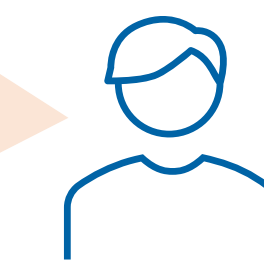
Even though some of those things I will send to social work...I still like to know what is going on at my patient's house.



There were questions that may be very important... to make you feel less bad talking about cancer.

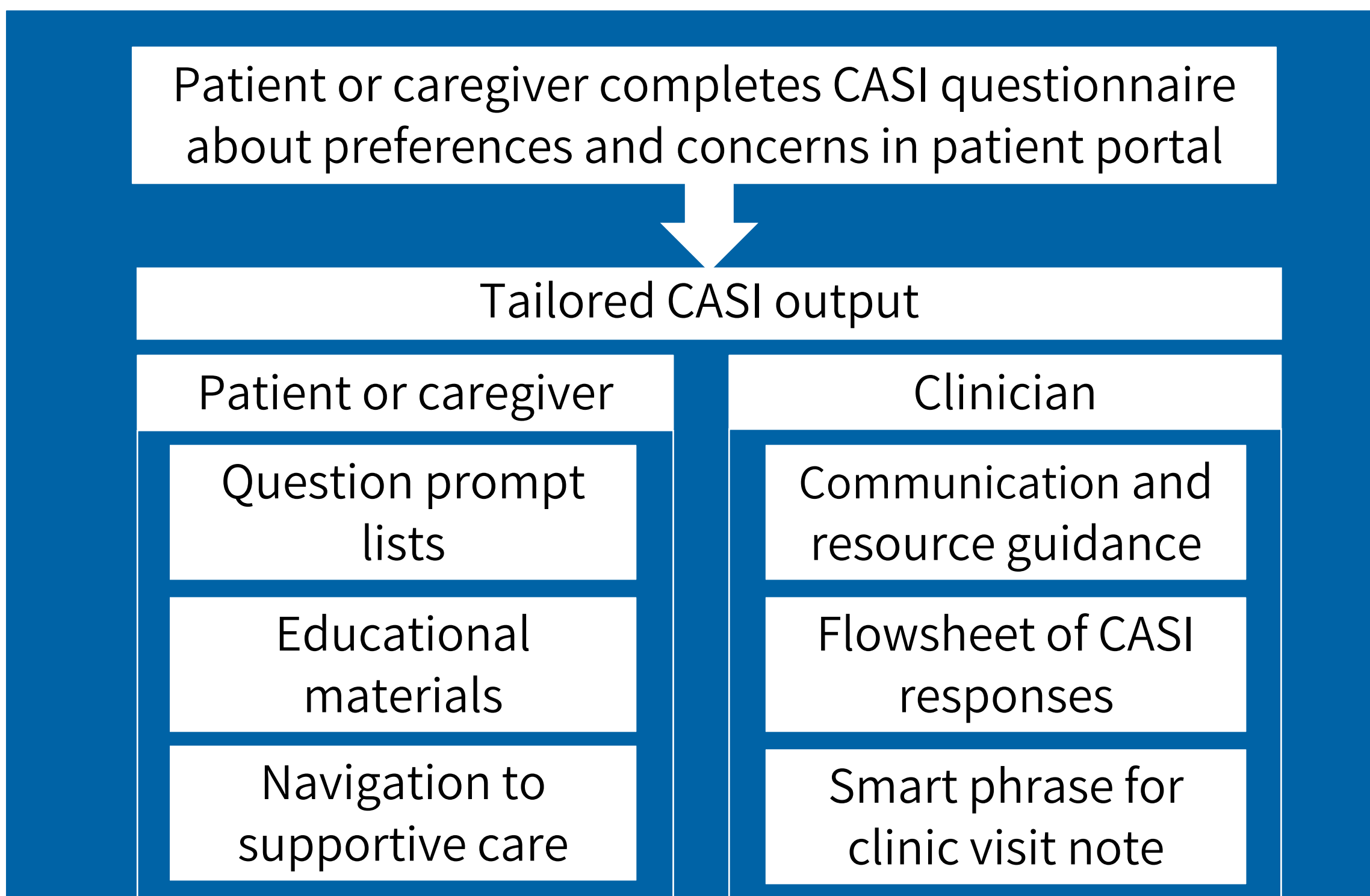


If I am already seeing somebody [e.g., a counselor], there is no need to double back with them.



## Conclusions

- A diverse group of stakeholders rated the CASI as having above-average usability and moderately high acceptability and appropriateness
- We eliminated redundant items, added an option to opt out of navigation, and refined options for communication preferences in response to participant feedback
- We are conducting a pilot randomized controlled trial to assess the feasibility of an efficacy trial comparing the CASI to usual care



**Figure 1.** Collaborative Agenda-Setting Intervention (CASI) schema