

Developing a Simulation Procedure-based Checklist using a Modified Delphi

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Background

- **The Carilion Clinic Center for Simulation, Research, and Patient Safety (CSRPS)**
- Procedure-based simulation
- Scenario-based simulation
- Hybrid simulation
- **Organizations served:**
 - ❖ Carilion Clinic
 - ❖ Virginia Tech School of Medicine
 - ❖ Radford University Carilion
 - ❖ Virginia Commonwealth University
- CSRPS lacks reliable, validated instrument or checklist to assess the skills they are performing.
- Goal: Develop and implement a checklist that can be used to standardize training as well as validate the competency of the procedure residents are performing.

Methods

- The initial study and as part of fulfillment of my HERS Project I completed the plan in two stages.
 - Stage 1, I developed a Lumbar Puncture procedure-based checklist using the Emergency Procedure and Techniques, Fourth Edition (Simon, R.R., Brenner, B.E., 2002) as a guide. Delphi.
 - Stage 2: Conduct a modified Delphi with experts from various specialties. Three rounds were completed.
- Conducted three virtual sessions with physicians and Advanced Care Providers (ACPs), from various specialties, who perform Lumbar Puncture regularly.
- Initially started with 10 committee members.
- Final Modified Delphi Committee consisted of five members.

Results

Round 1- Reviewed Project Goals. Committee was asked to review initial procedure-based checklist to change, add, or take away items

Round 2- Reviewed comments, item changes from each committee member.

Researcher took all the comments and changes from the committee member and developed the final Procedure-based Checklist.

Round 3- Final checklist was approved by committee members.

- Committee members comment that checklist needs to be shorter and the formatting needed to be updated.
- Some sections of the checklist were not necessary and were removed.
- A lot of the terminology on the initial checklist was too long and wordy so most items were shortened.

Final Checklist

Initial Checklist

Conclusion/Discussion

The purpose of this study was to serve as a framework or template to standardize the CSRPS Procedure-based Checklist. The researcher hopes to continue to validate this checklist through Stages 3-5.

Stage 3: Researcher will test the procedure-based checklist that was created by the committee during Delphi/Modified Delphi. Facilitator will instruct 4th year Resident using checklist. This session will be recorded.

Stage 4: Video will be viewed by the Delphi committee to ensure the checklist is correct and effective

Stage 5: Facilitator will instruct the same as in Stage 3 except 1st year residents will receive the instruction.

Stage 6: 2nd video will be viewed by the Delphi committee to further validate checklist.