

L. Rabbitt^{1,2}, L. McVicker^{1,2}, O. Mongan¹, M. Murray¹, H. Linane², Y. Finn¹, A. Moorthy², D. Byrne¹.

¹NUI Galway

²Galway University Hospital







Rationale

- Interns often the first doctors called to manage an acutely unwell patient.
- Consistently shown that that interns feel under-prepared and lack the skills necessary in caring for these patients.
- Smartphones used by the majority of interns on a daily basis in order to perform their job.









Rationale

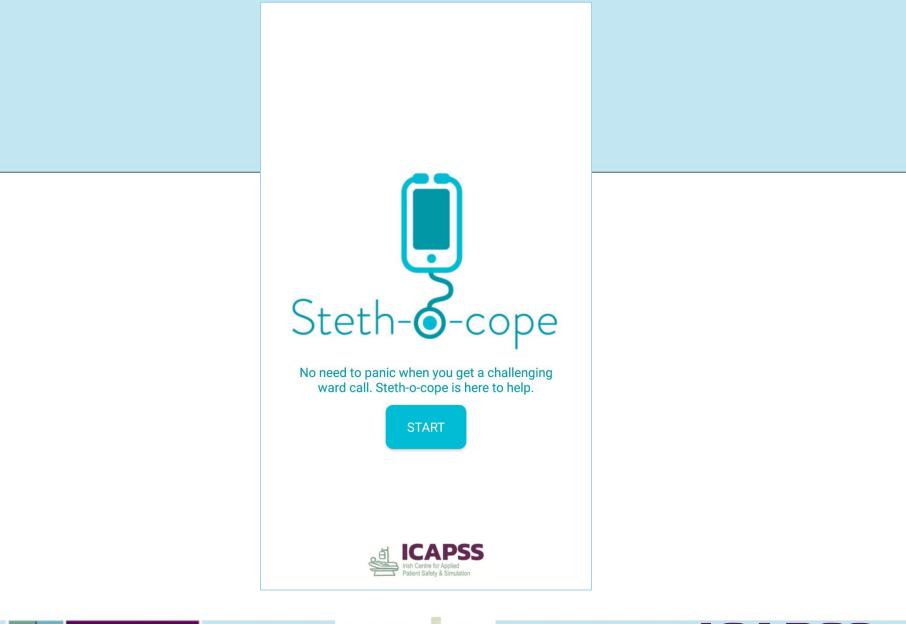
- Initial exploration revealed interns lacked a structured approach to the planning, management and follow-up of many ward calls.
- Protocols and checklists can be useful tools that facilitate decision making and communication.



















- Interns surveyed regarding ward calls
 - Frequency
 - Difficulty

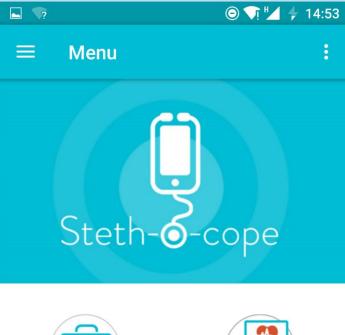


• Review cycles and collation of feedback used before final sign off on content by senior clinician experts.













My Tasks











Methods

 A collaboration of interns, NCHDs and educationalists formulated a standard approach to acute care ward calls: *Prepare, Assess, Investigate,* and *Manage.*









Patient Safety & Simulation

Findings

 The Steth-O-Cope application alpha version was built with 14 initial ward calls covering topics such as high temperature, abdominal pain, fast heart rate, shortness of breath and revised following review.

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≡	Ward Calls	÷
٢	Chest Pain	*>
Ô	Reduced Consciousness	*>
	Rapid/Irregular Heart Beat	*>
J	High Temperature	*>
Ø	Headache	*>
\square	Low Urine Output	*>
	Hyperkalemia	*>
	Confusion/Agitation	*>
\checkmark	Abdominal Pain	*>

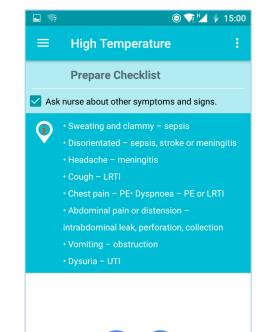






Findings

Additional evidence-based practice protocols and guidelines were sourced to support each topic.





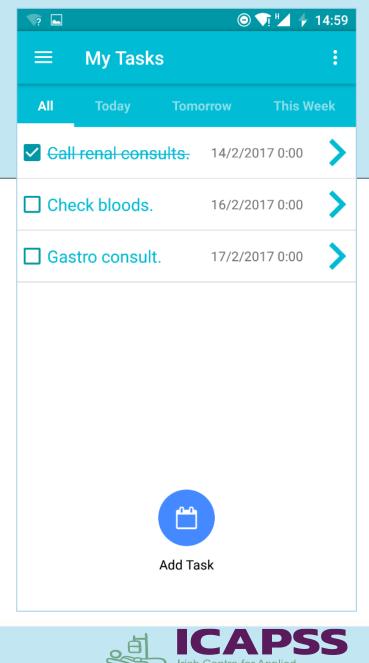








Beta version developed with additional functionality such as task creation and reminder setting.



Patient Safety & Simulation





User testing

- Very positive response
- Helpful feedback on usability

"I would use Steth-o-cope when I get the call to use it to prepare."

"... It would also be useful after to check if you'd missed anything."

"...It gives you a bit more structure."

"... It's good if you're on nights and really tired and just want to check you haven't forgotten anything."

















The gold version will be developed for Android and available on Google play store in March 2017.









Conclusions

- The adoption of an evidence based, iterative and collaborative approach to the development of Steth-O-Cope is one of the strengths of this application.
- The mixed methods study design, informing the content was critical to addressing intern needs.
- User ratings and feedback will be collated using Google Analytics post release.







With thanks

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