Implementation of Medical Education Handbook to Enhance Comfortability and **Efficiency during First Year of Pediatric Residency** Darla Fink MD, Saloni Sheth MD, Jessica Goldstein MD Rainbow Babies & Children's Hospital, Cleveland, OH, USA

Background

from medical transition student to The A **post-survey** was sent out two months resident physician is challenging. New resident following the distribution of the handbook physicians are rapidly expanding their medical to first year pediatric residents. Primary knowledge and learning their new hospitaloutcomes included comfort and efficiency specific Application following use of handbook. Secondary protocols. based handbooks seeking to improve resident outcome included handbook ease of use. knowledge and procedural skills have gained popularity in recent years [1]. However, many handbooks focus on resident education, many do not attempt to increase knowledge of hospital-specific protocols and nuances [2]. This resident-led project seeks to fill that gap. The **objective** of this study is to assess the impact of a hospital-specific resident handbook application on intern confidence and comfort on new rotations.

Aim

We hypothesize that the use of a medical handbook education will improve comfortability and efficiency on rotations for interns.

Methods

Prospective, IRB-exempt study of pediatric residents at a single institution.

- A needs assessment was emailed to the residency. Questions asked how residents prepare for rotations and what resources residents would like included in a handbook.
- The handbook was created on the Google Classroom platform, which is available for download as an application.



Methods (Continued)







& Children's Hospital



Figure 1. Eighty-three percent (5/6) of residents felt that the handbook impacted level of comfortability



Figure 2. Sixty-seven percent (4/6) found improved the handbook their that efficiency on rotations



- comfortable.

1. Levin AS, Haq IU, LaPorte DM. Pre-course cognitive training using a smartphone application in orthopaedic intern surgical skills "boot camps". J Orthop. 2018;27;15(2):506-508.

2. Zoghbi V, Caskey R, et al. "How To" Videos to Resident Performance of Essential Improve Perioperative Electronic Medical Records and Clinical Figure 3. All residents that participated in Tasks. Journal of Surgical Education Philadelphia.

the study found the handbook to be helpful 2017;75(2):489-496. with 5/6 finding it very helpful.

The authors report no conflicts of interest

Limitations

• By nature of being on rotations, pediatric first year residents gradually become more

• Small sample size with n = 6 in post-test. Prone to recall bias.

Future Steps

Provide incoming first year pediatric residents with handbook at orientation Obtain presurvey prior to starting rotation and obtain post survey after finishing rotation

Conclusions

• The majority of pediatric first year residents found the digital handbook to improve their comfortability and efficiency on rotations.

• Most pediatric residents found the medical education handbook to be very helpful.

• Further application of a digital handbook may ease the transition to a new institution.

References