



# **Need for Innovation**

- Safety concerns during the COVID-19 pandemic limited medical students' ability to rotate in clinical settings
- Research suggests students feel the least prepared for the pediatrics clerkship due to lack of exposure to pediatric patients in the pre-clerkship environment<sup>1,2</sup>
- Our institution's pediatric physical diagnosis curriculum depends on in-person patient contact that is untenable during the pandemic

## Objectives

- 1. Develop a virtual pediatric physical diagnosis curriculum which successfully:
  - Increases pre-clerkship student comfort with the pediatric history and physical
  - Teaches the differences between the pediatric and the adult H&P
  - Fosters interest in pediatric medicine  $\bullet$
- 2. Compare the efficacy of our 2020 virtual curriculum against the 2019 traditional inperson curriculum in the following metrics:
  - Perceived educational value of the session among learners
  - Learners' comprehension of material

# **Instructional Format**



Live virtual small-group sessions via Zoom



Learners: 5-6 pre-clerkship medical students



Instructors: one MS4 after completion of a Peds AI & one Peds faculty member

### University Hospitals

Rainbow Babies & Children's





# VIRTUAL SETTING

![](_page_0_Picture_27.jpeg)

SCHOOL OF MEDICINE CASE WESTERN RESERVE

![](_page_0_Picture_29.jpeg)

## Discussion

- There was no significant difference between the student satisfaction scores of the 2019 inperson and 2020 virtual curricula
- Students in the virtual curriculum performed statistically better on the post-test (90% vs 98% correct, p<0.01)
- A majority of students in the virtual curriculum were in favor of hybridizing future sessions
- Students' reflections from the 2019 in-person curriculum tended to have more variable responses, many notably themed around patient experience
- Students' reflections from 2020 were attuned to learning objectives and identified more practical approaches to pediatric H&P

## Conclusion

In adapting to meet students' educational needs during the COVID-19 pandemic, we demonstrated the effectiveness of a virtual pediatric physical diagnosis curriculum. We gained insight into effective ways to bridge the pre-clerkship pediatric knowledge gap and virtually inspire excitement about pediatrics.

## **Next Steps**

![](_page_0_Picture_41.jpeg)

Formal thematic analysis of students' reflections after pre-pandemic and pandemic pediatric physical diagnosis curricula

![](_page_0_Picture_43.jpeg)

Hybridization of the curriculum to achieve the benefits of both patient experience and standardized expert sessions

# References

1) Held, MR, Gibbs, K, Lewin, LO et al. *Med Sci Educator*. 2017. doi:10.1007/s40670-017-0422-4 2) Rose, Suzanne. JAMA. 2020. Doi:10.1001/jama.2020.5227.