



Medical Technology & School-Based Health Centers

Meet Our Presenters



Nikhil Reddy
He/Him
Freshman, Stanford
University
Dallas, TX



Ketan Tamirisa
He/Him
Freshman, WashU St.
Louis
Dallas, TX



Justin Wang
He/Him
Freshman, Stanford
University
Atlanta, GA



Annabel Sparano
She/Her
Senior (high school),
Ranney School
NJ

Icebreaker: Two Truths & A Lie



1. 3D-printed drugs are *already* FDA-approved, creating unique drugs that can improve patient compliance rates.
2. Preliminary research has found that wearable kidney monitors paired with an AI app can predict acute kidney injury up to *two days* before onset.
3. CRISPR-based therapies have been FDA-approved for at least *three* different inherited blood disorders.

Objectives

Participants will:

Enhance youth literacy regarding technology used in school-based health centers.

Promote understanding regarding implementation strategies.

Provide actionable strategies to increase medical technology in SBHCs nationwide.



Kahoot

[Link](#)



01

Discussion of Current Landscape

Overview

Medical technology refers to **products, services, or solutions** to save and improve people's lives.

2,000,000+ medical technologies.

Examples:

- CRISPR
- Apple Watch (health wearables)
- Vaccines

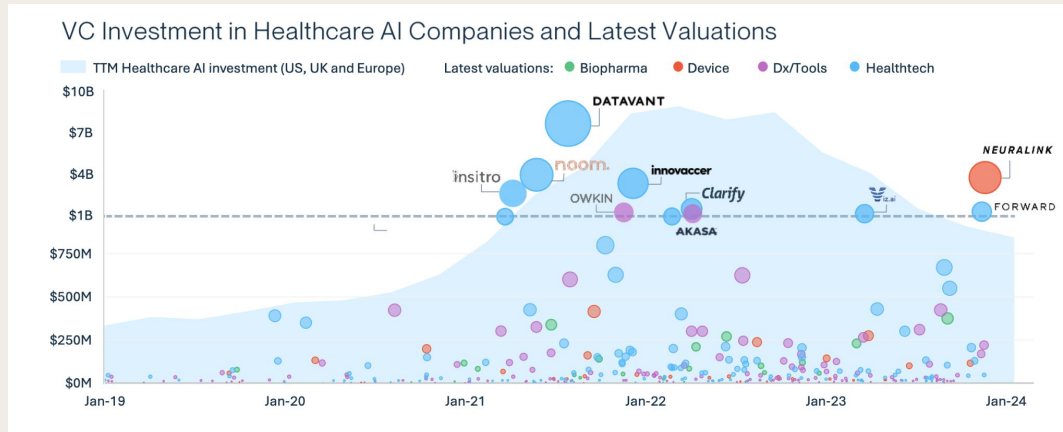
Status Quo

- SBHC-based telehealth use rose from 7% in 2007-2008 to 19% in 2016-2017
- >1 million students in 1800+ public schools have access to an SBHC using telehealth (2% of students & 2% of public schools)
- These SBHCs are primarily in rural communities and sponsored by hospitals

Relevance

Accelerated pace of innovation with AI.

“AI has the potential to revolutionize healthcare”
– *Healthcare Science Journal*

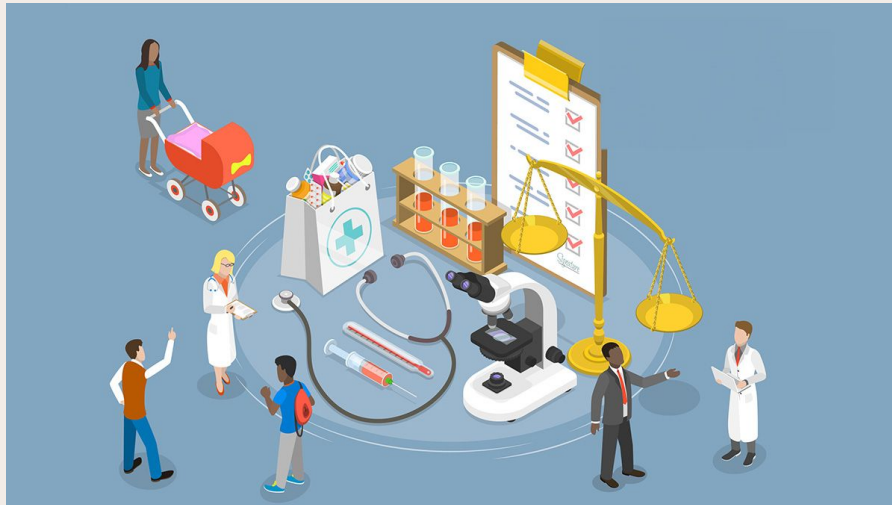


Impacts:

- Patients
- Care Providers
- Careers
- Insurance
- Healthcare Systems
- and so many more...!

AI Improving Healthcare Equity

- Unrepresentative data in medical technologies → bias → ineffective treatment for minorities and females
- Training new AI-enhanced medical technologies with more diverse data can bridge this gap, leading to more personalized and effective care.






15%

Yearly growth rate of the global
healthcare IT market.

2,000,000+

Subscribers to digital telehealth
subscription company *Hims & Hers*.





02

Discussion of SBHCs & Implementation



SBHCs

Technology can play an important role in school-based care.

Can you think of some examples?

What does your local SBHC look like?

Do you think technology is effectively utilized?

What would it look like in an ideal world?



Telehealth

- Virtual consultations for *improved* accessibility
 - Remote areas
 - Timing/urgency
- 7% (2007) → ~20% (2017)
- Telehealth-exclusive SBHCs
11% of centers (COVID-19)

Primary Care

- 100% of SBHCs offer primary care; NPs staff 86%
- Toolkits for:
 - Oral health
 - Test measures
- Innovation here tends to be more slow-paced.

EHR Systems

- 91% of respondents used an EHR to record student data
- Common EHR in SBHCs:
 - NextGen
 - Epic Systems
- Interoperability w/ hospitals and office-based doctors





Discussion: Your Perspectives



Group Activity

A battle of the minds... Shark Tank!

1. **Brainstorm! Come up with one technology or digital tool that would solve a real need in your school-based health center.**
2. **Create! You have 15 minutes to develop a sketch, slideshow, or some iteration to show the Sharks.**
3. **Pitch & present! Get ready to showcase your innovation to the public & Sharks... we have some tough questions ahead.**



Activity Debrief

A battle of the minds... Shark Tank!

**What lesson you take away from
this activity?**

What was your favorite pitch?





03

Discussion: *A Look Forward*



Discussion Questions



1. What role do you think technology could play in improving health services at your school or in your community?
2. What are some ways you or your peers could raise awareness about the benefits (or challenges) of tech in school health settings? What about implementation?

What can *you* do?

Stay Informed.

Keep up with the newest technologies that could enhance SBHCs. Follow news, podcasts, and pages like **SBHA's Youth Development Forum** to stay engaged!

Advocate.

Brainstorm some ideas for implementation and share them with school leaders. Start conversations with your nurse, principal, or even your district board. Get peers involved!

Assess.

Reflect on your SBHC — where could health services be faster, easier, or more accessible? Talk to friends and classmates. Think about how tech could fill those gaps.

Educate.

Raise awareness about developments in tech in SBHCs. Create posters, video, or flyers to help other youth & adults understand why technology can make a big difference in school health.

Quick Debrief on *'Education'*!

- Where do you think there are gaps in your school's health services? Could technology help fill them? If so, how?
- Imagine you had to teach your peers about a tech tool used in SBHCs. What would you highlight, and how would you make it engaging?



04

Closing: Final Thoughts



Key Takeaways



Medical technology is reshaping healthcare, and school clinics can be part of that change.

SBHCs can use tools like telehealth, wearables, and mobile diagnostics to improve student care.

Innovation matters: bringing tech into schools means faster, easier access to health services.

Youth leadership is powerful — you can advocate for better tools and smarter solutions.

**Stay informed, speak up, and spark change in your school and community.
Stay connected with SBHA!**

Questions?

Thanks for your time!

Citations

- Campbell K. The Impact of Virtual Consultations on the Quality of Primary Care: Systematic Review. Journal of Medical Internet Research. 2023;25:e48920-e48920. doi:<https://doi.org/10.2196/48920>
- Love H, Panchal N, Schlitt J, Behr C, Soleimanpour S. The Use of Telehealth in School-Based Health Centers. Global Pediatric Health. 2019;6:2333794X1988419. doi:<https://doi.org/10.1177/2333794x19884194>
- Johnson KB, Wei W, Weeraratne D, et al. Precision Medicine, AI, and the Future of Personalized Health Care. Clinical and Translational Science. 2020;14(1).
- MedTech Europe. Facts and Figures 2024.
<https://www.medtecheurope.org/wp-content/uploads/2024/07/medtech-europe--facts-figures-2024.pdf>
- SBHA Toolkits. Sbh4all.org. Published 2025. Accessed June 30, 2025. <https://tools.sbh4all.org/>
- Thacharodi A, Singh P, Meenatchi R, et al. Revolutionizing healthcare and medicine: The impact of modern technologies for a healthier future—A comprehensive review. Health Care Science. 2024;3(5).
doi:<https://doi.org/10.1002/hcs2.115>

