

2023 GMHC

# Improving Healthcare Outcomes in Medical Missions via Telehealth



### **Introductions**



#### Roosevelt Fenelus

CrossClinic, Founder and President

Hau Liu, MD

Endocrinologist

Consult Bridge, Consultant Coordinator





Jeff Lee, MD

Pediatrician
Consult Bridge, Founder





What is telehealth and its use in medical missions?

## Agenda



Data and research on Telehealth



**Example Applications of Telehealth in Medical Missions** 





# What is Telehealth in Medical Missions

Support Locally, Mobilize Globally



#### What is telehealth?

- Pre & Post Covid-19
- The history of telehealth
- The global information technology landscape
- The opportunities of telehealth for medical missions
  - Proper patient health records
  - Continuity of care & Follow-ups
  - Remote consultations for both missionaries & patients
  - Continuing education and knowledge sharing globally



### **Challenges for Providers & Patients**

- Inadequate information technology infrastructure
- Language and educational barriers
- Economical & logistical barriers
- Access to quality healthcare
- Maximizing the gift of healthcare
  - managing demanding job schedules
  - high traveling cost for medical missionaries
  - moving from output to patient outcomes





# Data and Research in Medical Missions

Support Locally, Mobilize Globally



Family Practice, 2022, 168–182 https://doi.org/10.1093/fampra/cmab077 Advance Access publication 19 July 2021



Systematic Review

### The effectiveness of teleconsultations in primary care: systematic review

Sara Carrillo de Albornoza,\*,o, Kah-Ling Siaa and Anthony Harrisa

<sup>a</sup>Centre for Health Economics, Monash Business School, Monash University Level 5, Building H, Caulfield Campus, 900 Dandenong Road, Caulfield East VIC 3145, Melbourne, Australia

"Teleconsultations via telephone or videoconference are an effective alternative to face-to-face consultations for many patients attending primary care and mental health services. Teleconsultations have the potential to deliver time-efficient and lower-cost interventions at a distance while improving access to healthcare."

2021 Jul 19. doi: 10.1093/fampra/cmab077





"Ongoing telemedicine use is fairly effective in having limited return office visits, low emergency visit rates, and very low hospitalization rates compared to office visits."

Annals of Internal Medicine. 2023; 176(10):1349-1357.



# **Example: World Telehealth Initiative Telehealth in low-resource areas**



HOME

**OUR WORK** 

ABOUT US

NEWS GET INVOLVED

DONATE

8.6M

50%

**15M** 

people die annually from treatable conditions. 3.6 million receive no healthcare, and 5 million receive substandard healthcare.

of the world lacks access to essential health services.

Communities in Sub-Saharan Africa and Southern Asia are the most affected.

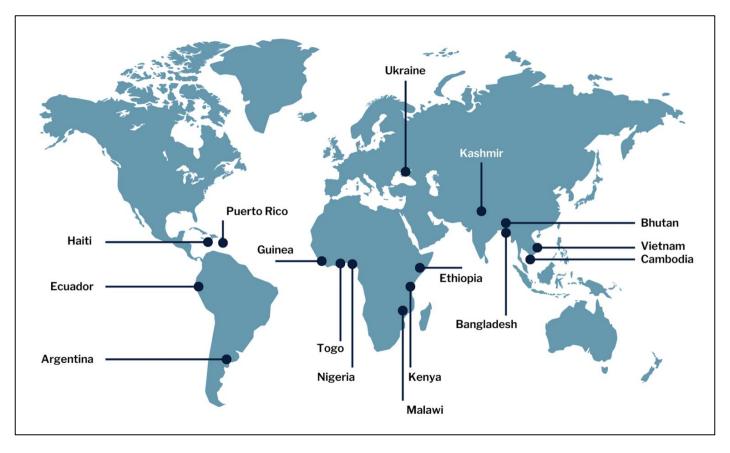
additional healthcare workers will be needed by 2030

to meet the demands of the global population.

As a leader in philanthropic virtual care, World Telehealth Initiative envisions a world where all people have access to quality healthcare.



World Telehealth Initiative provides sustainable medical expertise to the world's most vulnerable communities to build local capacity and advance core health services, through a network of volunteer healthcare professionals supported with state-of-the-art technology.





# 2023 Survey of Front-Line Medical Missionary Workers to Better Understand their Needs

### **Medical TeleConsultation Survey**

We want to understand how to better serve your medical specialty consultation needs through a virtual teleconsultation platform. Your responses to the below questions will help us improve connecting clinical practitioners in the field to qualified medical specialists around the world.

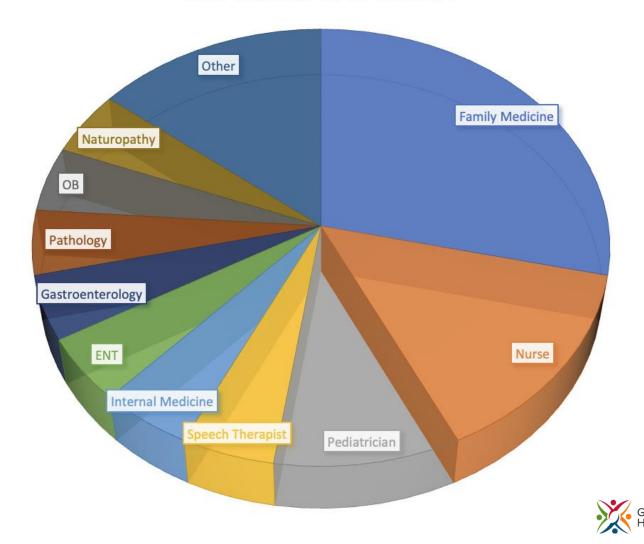


### Respondents' Location and Specialty (n=88)

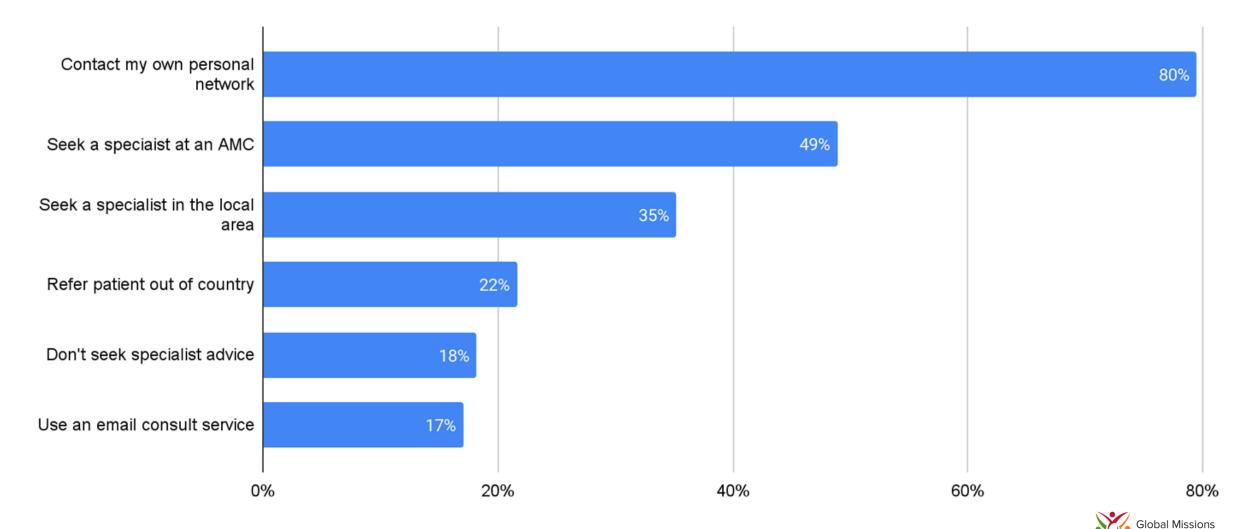
#### **RESPONDENTS' LOCATION**

USA	4	Malayasia	1
Ethiopia	3	Central Asia	1
Bangladesh	2	Far East	1
Nigeria	2	Middle East	1
Afghanistan	2	Cameroon	1
Malawi	2	Ecuador	1
Madagascar	2	Zambia	1
Pakistan	2	Peru	1
Nepal	2	Ghana	1
UAE	2	Senegal	1
Kenya	1	New Zealand	1
Niger	1	Papua New Guinea	1
South Sudan	1	Botswana	1
Zambia	1	South Africa	1
Angola	1	Mauritius	1
Liberia	1	Phillipines	1
Ghana	1	Angola	1
Cambodia	1	Kyrgyzstab	1
Bolivia	1	France	1
Mongolia	1	Iraq	1
	I I	I	1

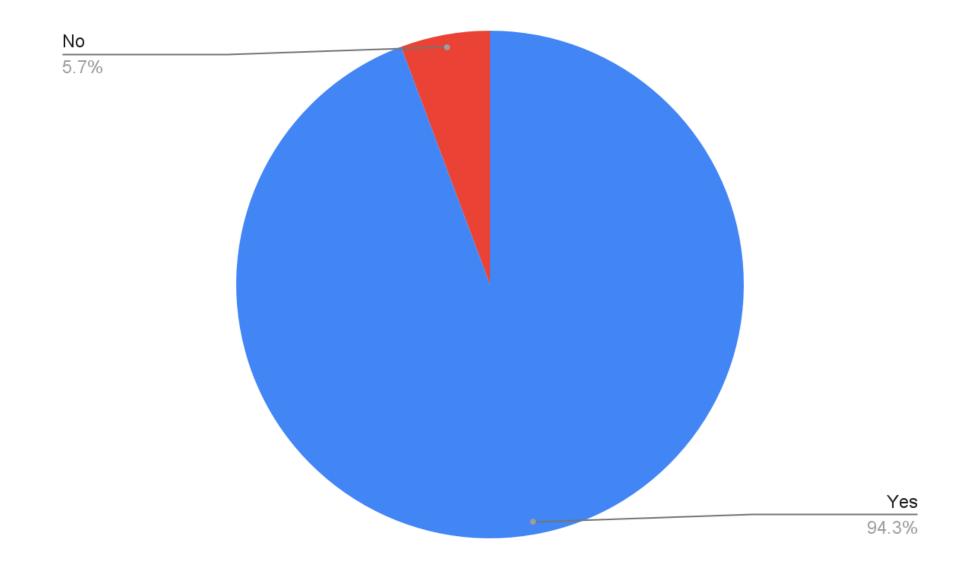
#### **RESPONDENTS' SPECIALTY**



## Currently what do you do if you need access to medical specialists that may not be immediately available in your practice area?

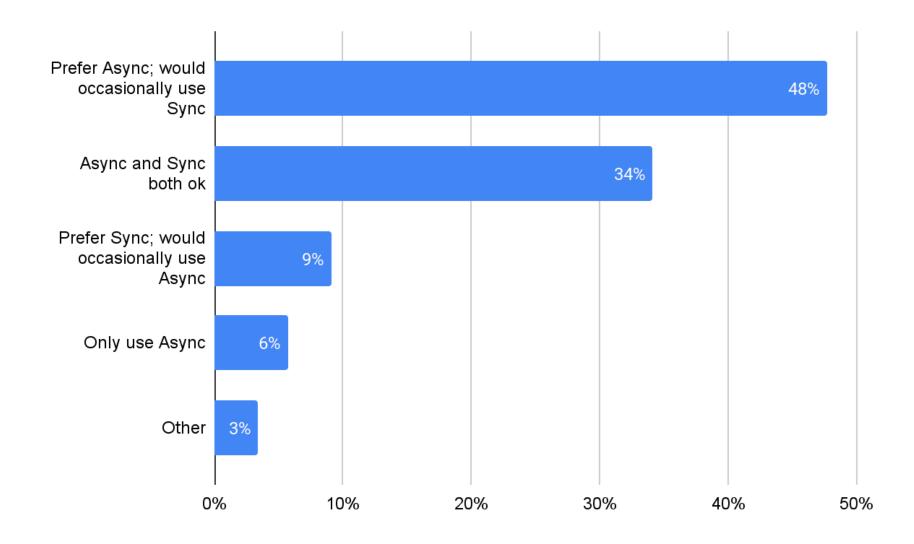


## Would having access to a virtual consultation platform that connects you to vetted network of medical specialists be helpful to you?



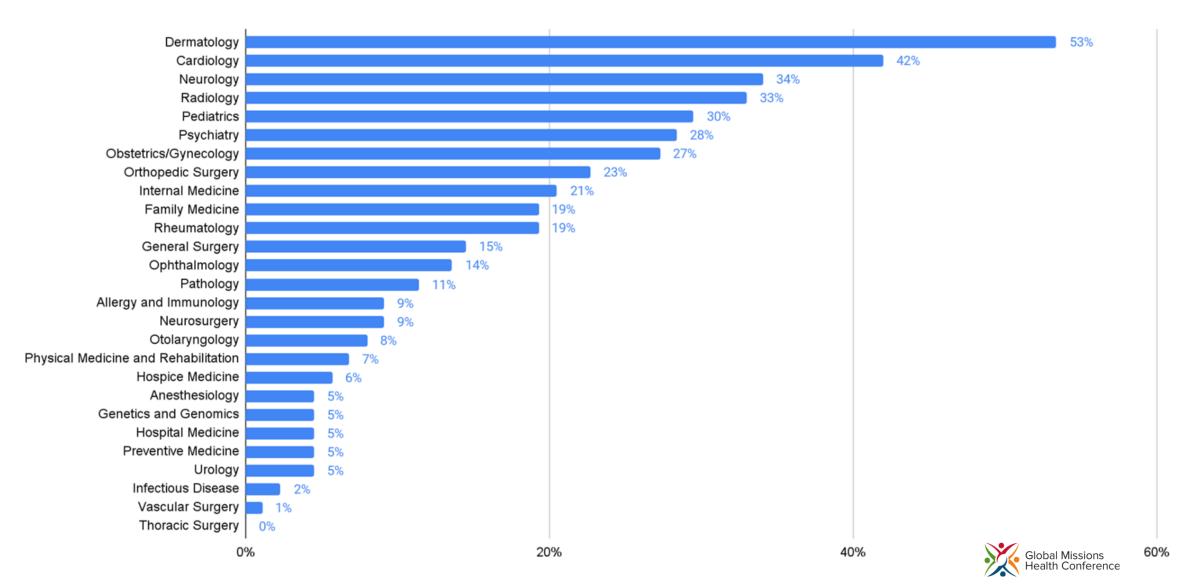


# In using a virtual consultation platform, which consultant communication method would you prefer (select one)?

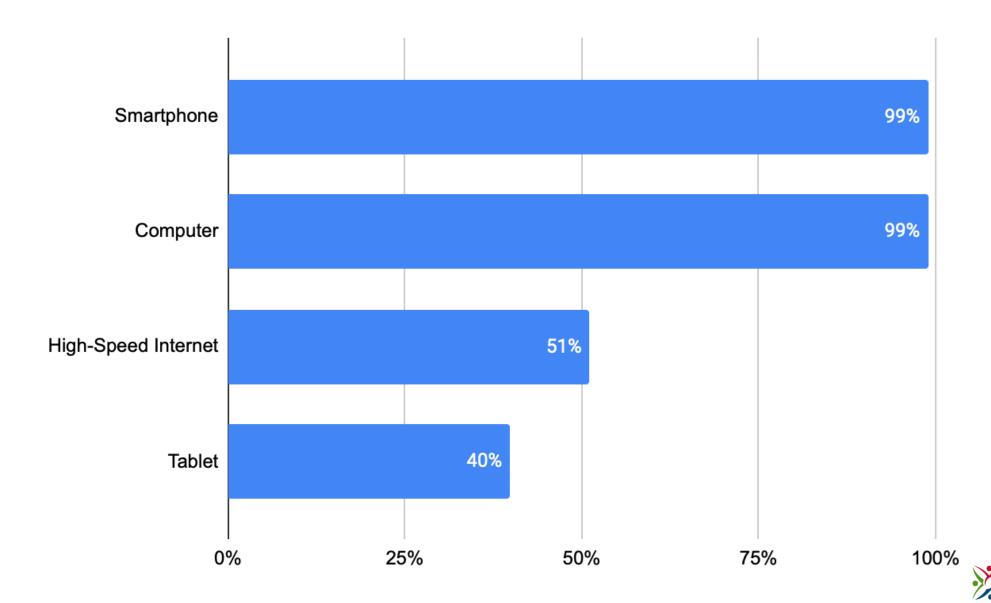




# What specialty would be most useful to you for virtual consultations? (please select up to 5 specialties)

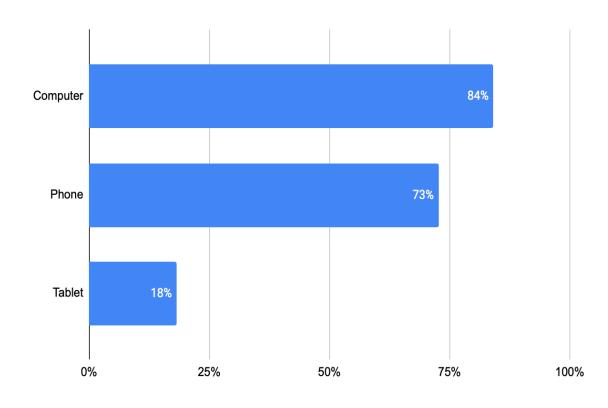


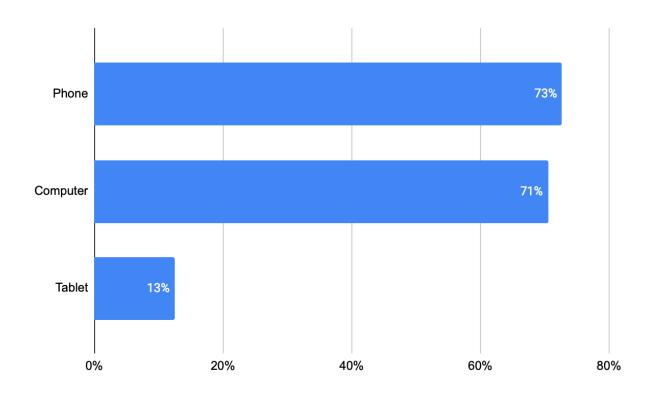
#### Please select all items you have access to:



# What modalities would you prefer to submit consults on (select all that apply):

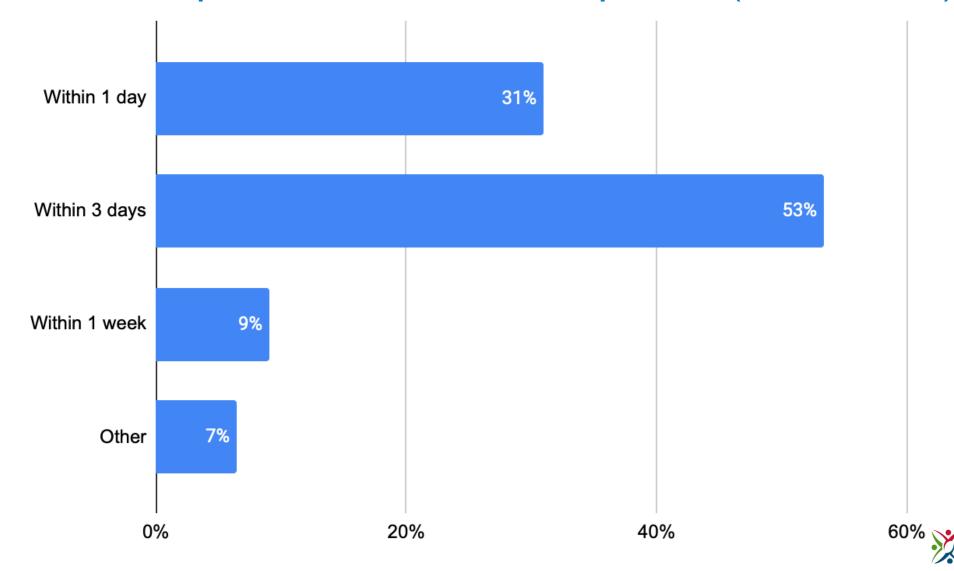
What modalities would you prefer to conduct a video consult with (select all that apply:)







# What would you consider to be a helpful timeframe for a consultant to respond to a consult request? (select one)



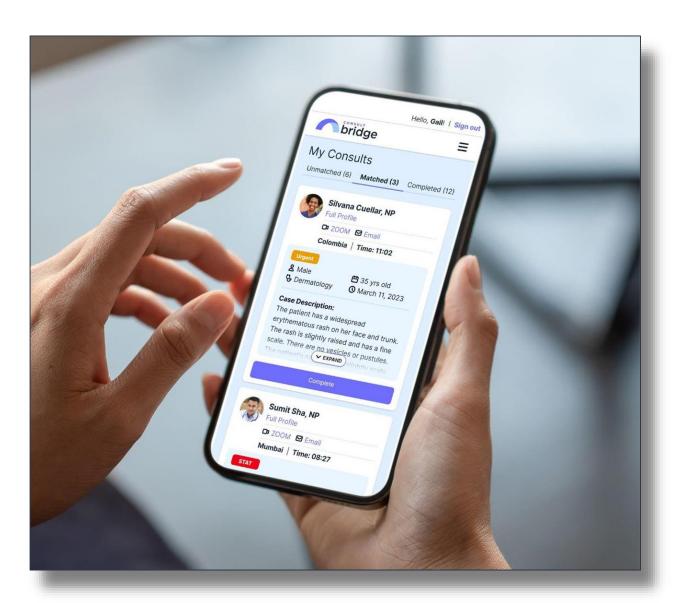


# Technology Examples in Medical Missions

Consult Bridge & The Cross
One Platform











#### What Is Consult Bridge?

A tele-consultation platform that virtually connects medical missionaries with medical subspecialists just using smartphones and computers.

#### The

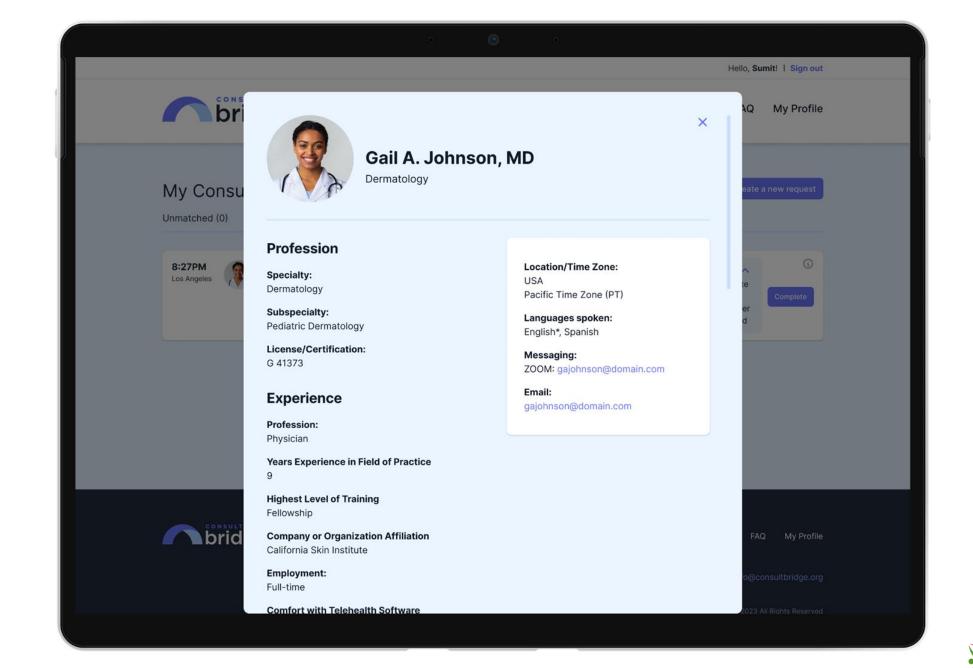
1)Provides in missionaries with access to a network of board-certified specialists.

bridge

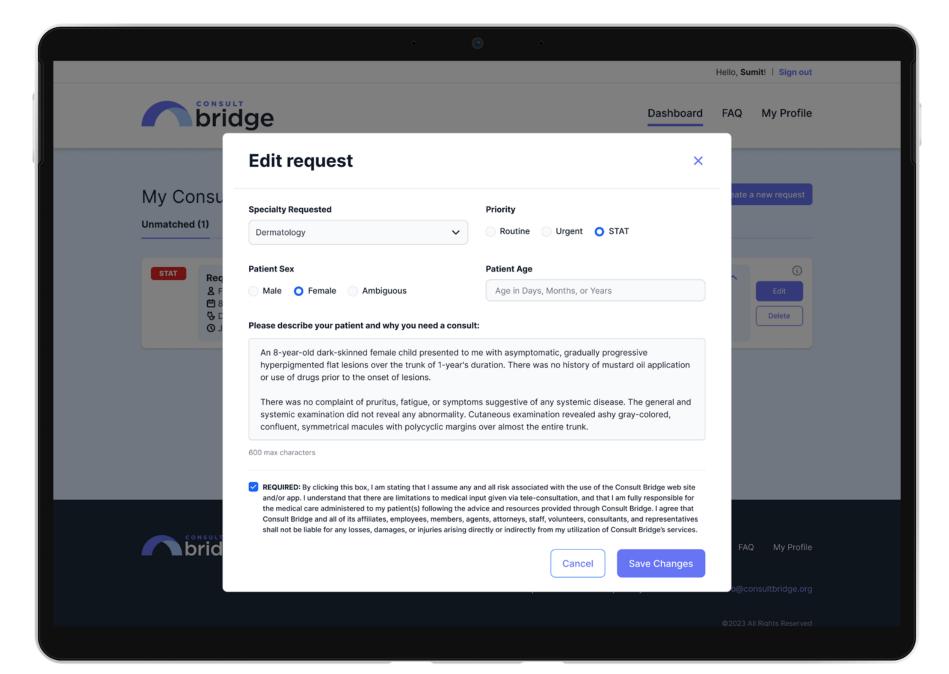
1) Create a convenient, high-impact, way for medical subspecialists to engage in Kingdom work.



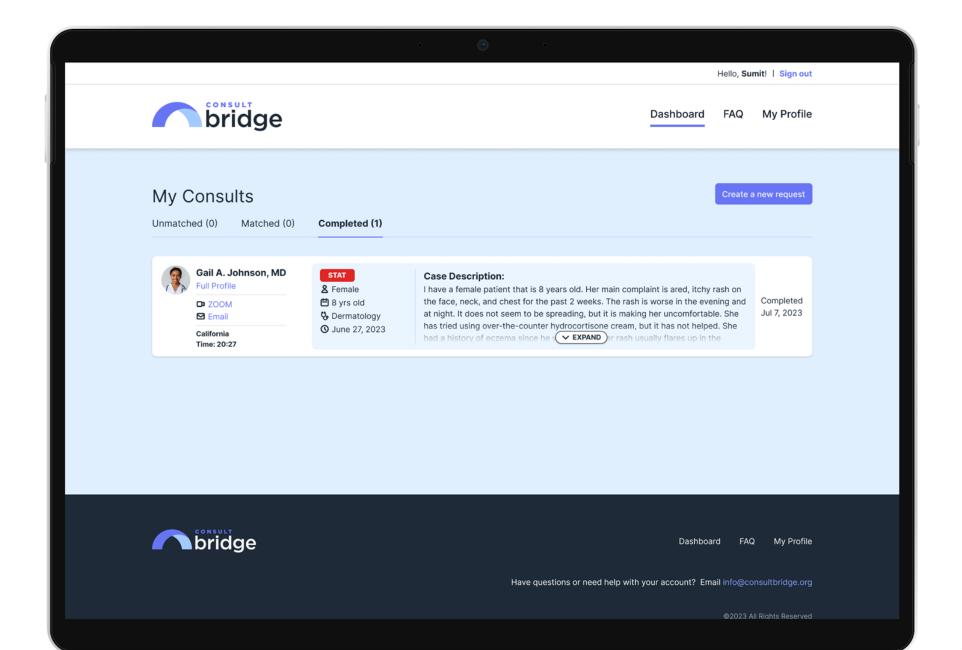














### Where We Are Today

Soft Launch (October 2023)

7 Medical Missionaries (from 6 different countries)



Neurology

Endocrinology

HIV specialist

**Pediatrics** 

Cardiology



"This would meet a lot of needs for those serving in remote areas and seems to be an increasing felt need."

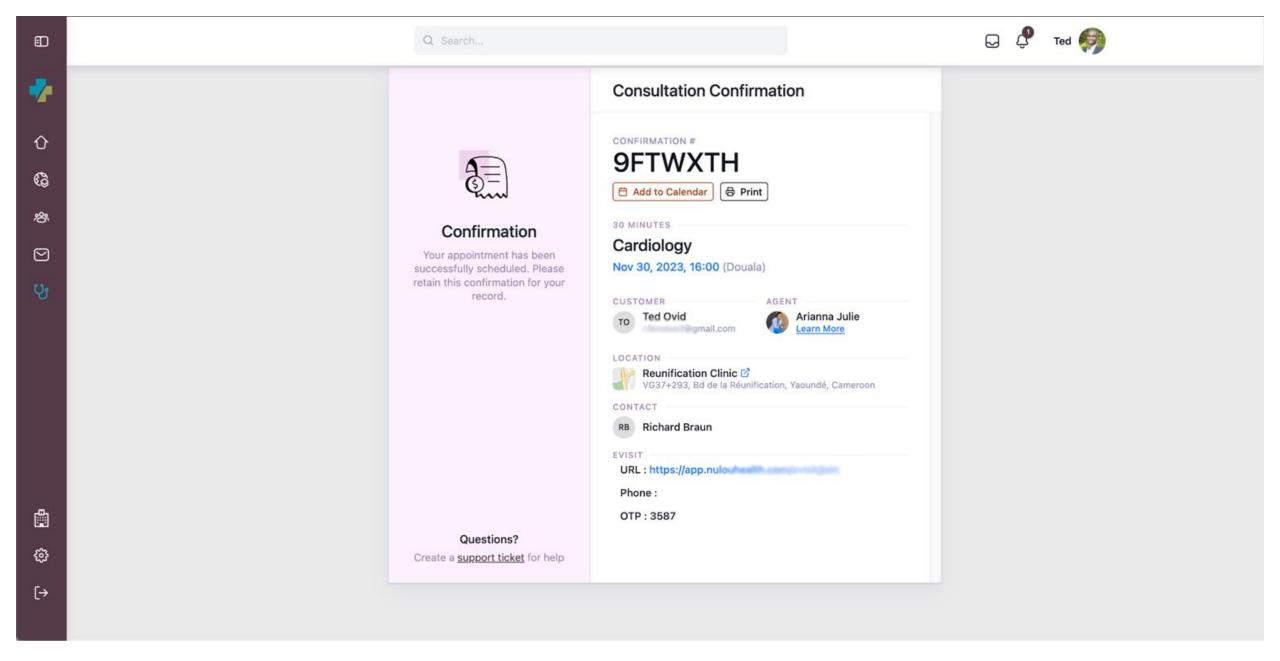




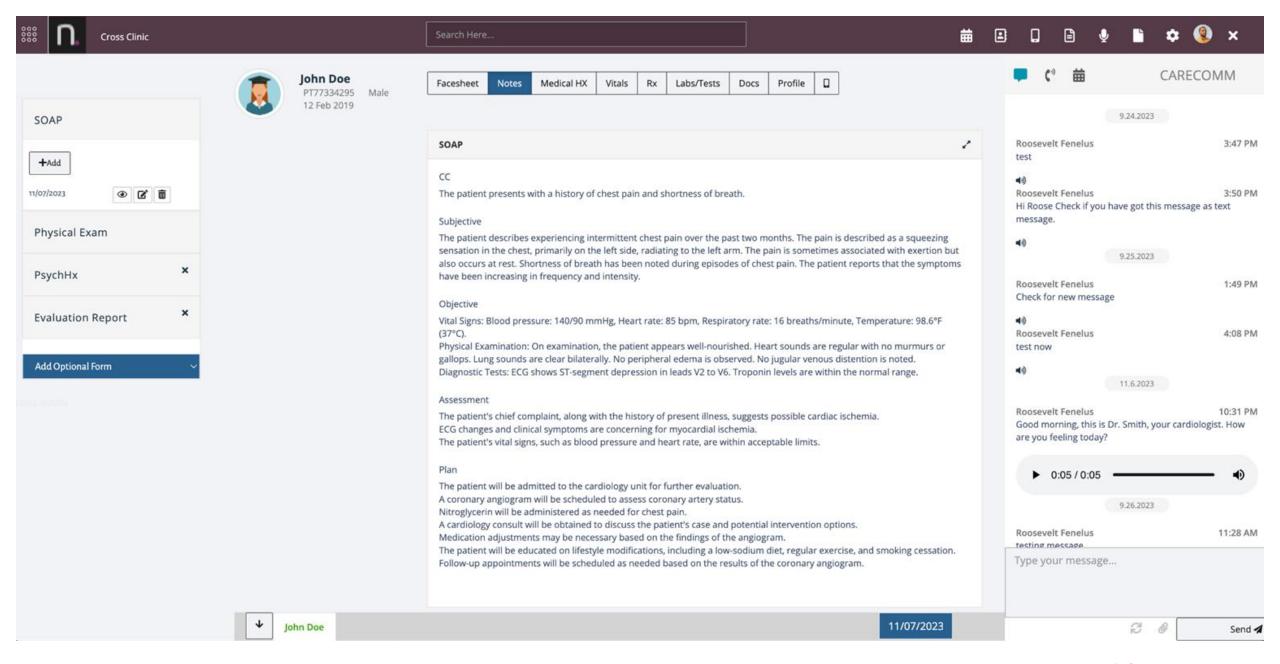


- Created to accelerate mission driven technologies, applications and systems.
- Provides a secure sets of Application
   Programming Interface (API) to unify the
   community and increase adoption of technologies
   in medical missions.
  - Authentication & SSO APIs
  - Data & User Management
  - Provides technical expertise to develop and launch healthcare technologies that benefits the Kingdom
- In Beta testing mode
  - 3 application integrations in progress
    - Electronic Health Records
    - Telehealth Platform
    - Community Apps









# Conclusion & Next Steps



New Era: Telehealth is here and missions can benefit from it.

Telehealth: an adjunct to, not replacement of, in-person Medical Missions

New Arena with many Potential Use Cases



### Questions?

To learn more about the example applications, visit:

www.crossclinic.org

www.consultbridge.org

Scan this QR code to sign up for our newsletter:







# Thank You For Attending.

