Workshop: Healthcare Technology Innovation in LatAm

Dates       June 23 – 25, 2022
Location    PUCP Lima, Perú
Partners    MIT, PUCP, IEEE EMBS Region IX
Attendees   Two-day workshop: 50 – 100; Half-day working group: 20
            All sessions in-person with vaccination required
Languages   Spanish / English
            *Talks will be in Spanish, with slides or materials in English wherever possible*
Hosts       Prof. Benjamin Castañeda (PUCP, Lima, PE)
            Dr. Nevan Hanumara & Dr. Shriya Srinivasan (MIT, Cambridge, US)

Summary
The workshop will build off the success in ventilator development by teams in Peru, Chile, Colombia and USA, in response to COVID-19. Together we will explore the broad question of:

*How can we foster sustainable healthcare technology innovation in LatAm that is accessible, affordable and meets the highest clinical standards?*

We will hear keynotes and case studies that demonstrate the potential to break barriers between medicine, engineering and industry. The two-day workshop will include a half-day hackathon around topics identified by the participants and culminate in a networking dinner. We will facilitate roundtable discussions to identify key ways to work together on global health challenges and explore opportunities for long-term collaborations and foster broader discussions around strengthening local innovation ecosystems. On the third day, a half-day working group meeting will be conducted by a subset of attendees and key partners. We expect to host the following stakeholders:

- Academic researchers
- Industry collaborators
- Clinical leaders
- Hospital officers
- Local medical device industry
- Government health and regulatory authorities

Agenda

*Thursday 23 June 2022*

- 08:30 – Coffee
- 09:00 – Welcome
  - Aldo Panfichi, Vice-provost for Research, PUCP
  - Benjamín Castañeda, Director of Medical Devices, PUCP
  - Nevan Hanumara, MIT
• 09:30 – **Studies of Success** – *Invitees from Peru, Colombia, Chile (20/min case + 10min Q&A)*
  o Case studies will focus on the power of *Extreme Collaborations*
  o Key questions:
    ▪ How did you develop the technology?
    ▪ What were the partnerships developed?
    ▪ How was clinical input incorporated into engineering?
    ▪ What were the biggest hurdles that you had to overcome?
    ▪ What was your regulatory strategy?
    ▪ Can you share any clinical outcomes?
    ▪ What are your key learnings for the future?
    ▪ What challenges should be solved proactively for future health emergencies?
    ▪ What are gaps in healthcare infrastructure that still exist?
    o between engineers and clinicians and the lessons learned for the future.
• 12:00 – **Panel Discussion** (Moderated by Shriya & Benjamin)
• 13:00 – **Discussion Lunch** (participants will be assigned tables in cross-functional groups)
  o Key Question: *How can we foster sustainable healthcare technology innovation in LatAm that is accessible, affordable and meets the highest clinical standards?*
  o Each table will be asked to do a deep dive and prepare 3 slides for presentation in 5 min:
    ▪ Slide 1 – Problem (defined in localized terms)
    ▪ Slide 2 – Solution
    ▪ Slide 3 – Action
• 14:30 – **Readout**
• 15:00 – **Keynote** - Innovation Outside the University – Prof. Giovani Traverso
• 16:00 – **Discussion** (moderated)
• 17:30 – **Happy Hour**

*Friday 24 June 2022*

• 09:00 – **Welcome**
• 09:30 – **MIT Mini Health Hackathon** (Organized by Shriya & Nevan)
  To provide an interdisciplinary experience in entrepreneurship and medical innovation, we will bring together engineers, clinicians, entrepreneurs, designers, and corporate partners to collaborate around shared interests, and ideate health solutions over a mini-hackathon. During this event, we will guide participants in small teams through the healthcare design thinking process and strategies developed to constructively tackle systemic healthcare issues and generate tangible solutions.
  o
• 13:30 – **Lunch**
• 14:30 – **Startup Flash Talks** – 5 talks / 10 min each
  o Successful invited startup founders will share their tips and tricks for success
• 16:00 – **Wrap Up**
• 16:30 – **Break**
• 20:00 – **Networking Dinner**
Saturday 25 June 2022

- **10:00 - Small Group Discussions**
  - Topic: Creating intra-American collaborations around Medical Device Development?
- **13:00 – Lunch**