

TB Innovations: An Update from Stop TB

Jacob Creswell Head, Innovations and Grants Stop TB Partnership

STOP TB PARTNERSHIP

38th BOARD MEETING

12–14 December 2024 • Abuja, Nigeria



Innovation at Stop TB - Operational Strategy



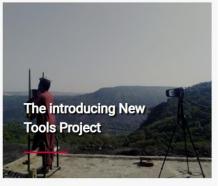
- Under STP's Operational Strategy, the Innovation Petal is supported by several teams
- Demonstrates the huge interest and growth in this area for the TB community

Build a stigma-free Community-led, Rights-based, Gender-Mobilize an equitable Catalyze, incubate transformative TB and inclusive and support the response scale-up of TB people-centered TB movement innovations Champion Facilitate access ending TB with to quality-assured, affordable TB financing and political advocacy products









Enablers

Motivated and passionate people with a diverse, equitable and inclusive culture

Transparent and collaborative information sharing within the Secretariat

Efficient, effective, resourced Secretariat operations, hosting and governance

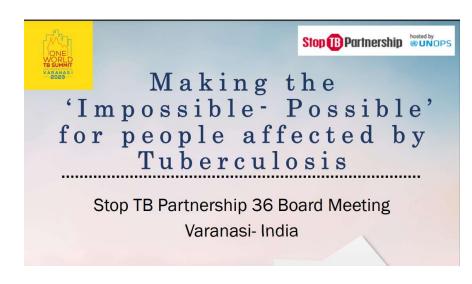


TB Innovation – Varanasi – Brasilia - Abuja



In Varanasi and Brasilia:

- Indian and Latin American innovators presented to the Board and Stop TB was tasked to:
- Support knowledge sharing and broader dissemination of the innovations
- Facilitate communication, create exchange platforms and promote partners evidence sharing
- Support collaborations of public-private partnerships in TB innovations
- Work with other donors urgently to consider additional funding for TB REACH



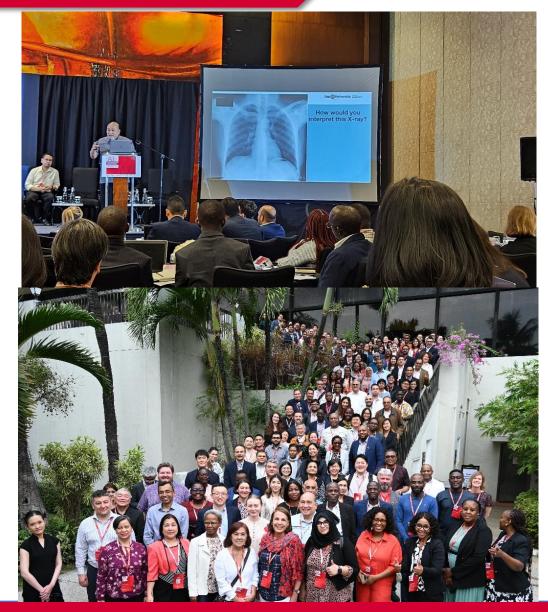




Al Radiology: Implementers' Exchange



- Brought together over 200 participants from 40 countries to share experiences, best practices and lessons learned from implementing AI and X-ray
- With the Department of Health of Philippines, Stop TB Board's Private Sector Constituency USAID, the Global Fund, US CDC, and others
- Opportunities for discussions and demonstrations with manufacturers through a dedicated product showcase session
- Charting a path towards filling research and implementation gaps in AI and radiology for TB





Asymptomatic TB



- WHO meetings in October on Screening and Asymptomatic TB - October
- TB REACH has been working on asymptomatic TB for several years
- How to do this screening?
- Active case finding work using CXR in Cambodia, Nigeria, Vietnam, Pakistan, Zambia, India and others documenting the need for moving beyond symptoms
- Working with FIT in Vietnam to show CXR's impact in screening at health facilities
- Looking at costs and cost effectiveness analysis for CXR use and impact and how AI will impact the interventions









Taking TB Innovations to New Heights



- Our ability to bring TB diagnostics to point of need is getting stronger
- We can reach people with state-of the art technology in remote areas without roads or connectivity
- Bring attention to the need and the ability to reach everyone with TB – we have to make it happen
- Stop TB partnered with PSC members MinXray and Qure.ai to demonstrate this and set a Guinness World Record for highest X-ray taken above Everest Base Camp





Engagement on Innovation with Japan

Stop (B) Partnership

- Japan's MoH supporting TB REACH partners in addressing gaps in CXR and Al
- Evaluating CXR screening and new tests to with AI software in children in Bangladesh – missing from WHO guidelines
- In Mozambique and South Africa collaborating with Medical Bureau for Occupational Diseases and Compensation Commissioner for Occupational Diseases
- Train and evaluate AI for silicosis
- Working with other developers to evaluate treatment monitoring tests to replace culture in people with DR-TB and swabbased testing development









Amplifying Results of our Partners



- Media tours to Pakistan and Bangladesh –TB REACH and iNTP
- Media push in Papua New Guinea for 2025 - TB REACH Wave 10
- 45 different sessions highlighting TB REACH results in Bali
- 17 different peer reviewed publications from TB REACH in 2024 – several more under review
- Working with Global Fund and other partners to showcase TB innovations in 2025 through webinars and in person events











Increasing health access for Pakistan's shunned transgender population

Many transgender people avoid visiting health facilities where they can be mocked and mistreated. But community-based efforts are working to ensure these people have access to health care.

By Sara Jerving // 27 November 2024

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Evaluation of New Innovations



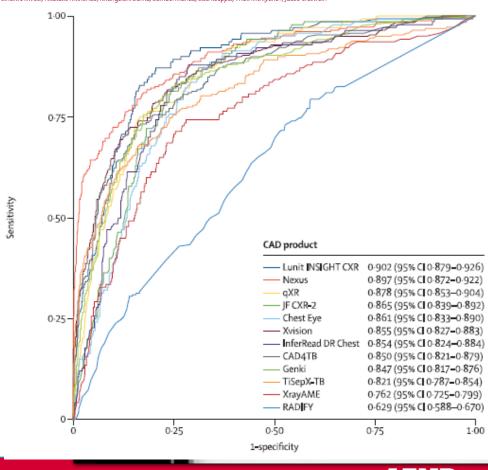
- Working with CDC and Molbio to evaluate newer, lighter, less expensive X-ray machines – comparing to current devices
- Working with developers in China to evaluate oral swab based tests that can be used at point of care – processing sputum or tounge swabs.
- Signed an MOU with India Health Fund to evaluate promising TB tests outside of India
- Conducting evaluations of AI for non-TB findings
- Published the results of Google's Nexus AI software

Computer-aided detection of tuberculosis from chest radiographs in a tuberculosis prevalence survey in South Africa: external validation and modelled impacts of commercially available artificial intelligence software



Zhi Zhen Qin*, Martie Van der Walt*, Sizulu Moyo, Farzana Ismail, Phaleng Maribe, Claudia M Denkinger, Sarah Zaidi, Rachael Barrett, Lindiwe Mvusi, Nkateko Mkhondo, Khanaelani Zuma, Samuel Manda, Lisa Koeppel, Thuli Mthiyanet, Jacob Creswell†







Person Centered Care



- Not all innovation is technology
- The provision of person-centred care is a central tenet of the Global Plan End TB strategy – but poorly defined
- Having a tool to measure and monitor PCC could help NTPs and partners improve the care offered to PwTB
- Wave 9 TB REACH projects focused people with DR-TB
- Provided an ideal opportunity to develop and test a tool to help programs



Domain	Men	Women
Respect	65	70
Confidentiality	61	61
Autonomy	60	60
Communication	80	79
Accessibility	53	52
Stigma	38	37
Costs	64	65
Quality of care	-25	-19



TB REACH Wave 10



- 26 projects most are ending activities at end of 2024
- Integrated service delivery
- Provision of TPT
- Documenting how best to integrate TB with other health conditions
- Working to share results on TB/NCDs in 2025





55,442 %

screened for TB infection

12,627 💖

1,679



Cardiovascular Diseases

Diseases

5,463



943 HIV/AIDS



1,930

1,522 Undernutrition



2,159



682

586 **Hepatitis**



Smoking-related Issues

4,000 💆

Syphilis





TB REACH Wave 11



- After Brasilia, FCDO contributed £4m to Wave 11
- USD 15.1m to 28 projects in 15 countries approved in June
- Covering different aspects of integrated service delivery for lung health (and others)
- All grants have signed by September, implementation begins late 2024/early 2025





TB REACH Wave 11



- Wave 11 Kickoff meeting in Nairobi in October
- FCDO added an additional USD 750,000 in December
- Will provide TB and other lung health services to more than 80,000 people and identify more than 6,000 more people with TB
- Large interest in asymptomatic TB and Social Determinants
- Currently, Stop TB has no additional funding for TB REACH calls for proposals







Looking Ahead



- TB REACH investments go directly to support people with TB in high burden countries
- Investments in TB REACH translate to impact our partners use USD 300 to save a human life
- Continue to engage developers to evaluate and improve products – and guide them towards scalable solutions
- We need TB REACH to continue to support innovation and provide evidence for national and global policy
- Panel of speakers wide range of African innovations from TB REACH, iNTP, private sector, and other work



