Validation of treatment decision algorithms for childhood tuberculosis at low levels of healthcare in high burden countries - effectiveness, implementation, and integration into policy and practices

Fact Sheet

Project Information

**Decide-TB**

Grant agreement ID: 101103283

**DOI**

10.3030/101103283

**Funded under**

Health

**Total cost**

€ 5 299 965,00

**EU contribution**

€ 5 299 965,00

Coordinated by

UNIVERSITE DE BORDEAUX

France

Objective

Childhood tuberculosis (TB) remains globally underdiagnosed and untreated. In 2022, WHO conditionally recommended the use of treatment decision algorithms (TDAs) to improve the diagnosis of pulmonary TB in children <10 years and called for the external validation of two suggested TDAs for children. The Decide-TB project aims to generate evidence for the implementation of a comprehensive TDA-based approach for TB in children living in high-burden, resource-limited countries, at district hospital and primary health centre levels, and to facilitate the integration of...
this evidence into practice and policy. As an interdisciplinary consortium of researchers and national TB programs (NTPs), we will conduct a programmatic pilot of WHO-suggested TDAs, also integrating specific TDAs for children living with HIV and/or those malnourished, and severity assessment for shorter treatment decision in non-severe TB disease. Clinical mentoring tools and a Clinical Decision Support System will be developed. District information systems will be strengthened to collect individual data for program monitoring and supervision by NTPs, and for research. The TDA-based approach will be tested in a pragmatic stepped wedge cluster-randomized trial, including effectiveness, implementation, socio-behavioural, economics and policy research components. The diagnostic accuracy of TDAs will be assessed in a parallel meta-analysis of children with presumptive TB from recent studies led by consortium members. The pragmatic trial and meta-analysis will contribute to external validation of the WHO-suggested TDAs. Engagement of key stakeholders and decision-makers throughout the project will support adoption into international and national policies and into clinical practice. Through validation of TDAs, widespread policy adoption, and translation into clinical practice, Decide-TB will increase access to safe and effective TB management for children, thus reduce TB mortality and contribute to SDG3.

Fields of science

- social sciences > sociology > demography > mortality
- social sciences > economics and business > economics
- medical and health sciences > health sciences > infectious diseases > RNA viruses > HIV
- medical and health sciences > clinical medicine > pneumology > tuberculosis

Keywords

tuberculosis, children, treatment decision algorithms, digital, pragmatic trial, effectiveness, implementation, feasibility, acceptability, cost-effectiveness, clinical practices, policy

Programme(s)

- HORIZON.2.1 - Health

MAIN PROGRAMME
Call for proposal

HORIZON-JU-GH-EDCTP3-2022-01

See other projects for this call

Funding Scheme

HORIZON-JU-RIA - HORIZON JU Research and Innovation Actions

Coordinator

UNIVERSITE DE BORDEAUX

Net EU contribution

€ 1 394 278,75

Address

Place pey berland 35
33000 Bordeaux

France

Region

Nouvelle-Aquitaine > Aquitaine > Gironde

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

Participants (12)
ADERA SAS

France

Net EU contribution

€ 221 250,00

Address

Av du docteur albert schweitzer 162
33600 Pessac

Region

Nouvelle-Aquitaine > Aquitaine > Gironde

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
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Other funding

€ 0,00

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STELLENBOSCH UNIVERSITY

South Africa

Net EU contribution

€ 208 593,75

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Victoria street administration b building
7600 Stellenbosch

Activity type

Higher or Secondary Education Establishments

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Contact the organisation
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Other funding

€ 0,00
UNIVERSITY OF ZAMBIA
Zambia
Net EU contribution
€ 1 067 018,75
Address
Great east road campus
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Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Website
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Other funding
€ 0,00

Instituto Nacional de Saúde
Mozambique
Net EU contribution
€ 853 783,75
Address
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Maputo
Activity type
Research Organisations
Links
Contact the organisation
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Other funding
€ 0,00
INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT

France

Net EU contribution

€ 337 430,00

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13572 Marseille

Region

Provence-Alpes-Côte d'Azur > Provence-Alpes-Côte d'Azur > Bouches-du-Rhône

Activity type

Research Organisations

Links

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Other funding

€ 0,00

THE UNIVERSITY OF SHEFFIELD

United Kingdom

Net EU contribution

€ 162 250,00

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Firth court western bank
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Yorkshire and the Humber > South Yorkshire > Sheffield

Activity type

Higher or Secondary Education Establishments

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Other funding

€ 0,00
LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN

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Net EU contribution
€ 0,00

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Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type
Higher or Secondary Education Establishments

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Other funding
€ 0,00

KLINIKUM DER UNIVERSITAT MUNCHEN

Germany

Net EU contribution
€ 231 177,50

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Marchioninstrasse 15
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Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
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Other funding
€ 0,00

IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE
United Kingdom
Net EU contribution
€ 109 901,25
Address
South kensington campus exhibition road
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Region
London > Inner London — West > Westminster
Activity type
Higher or Secondary Education Establishments
Links
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Other funding
€ 0,00

UNIVERSIDADE EDUARDO MONDLANE
Mozambique
Net EU contribution
€ 55 062,50
Address
Reitoria da universidade, praca 25 de junho 257
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Activity type
Higher or Secondary Education Establishments
Links
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MINISTERIO DA SAUDE
Mozambique
Net EU contribution
€ 477 687,50
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Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
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Other funding
€ 0,00

MINISTRY OF HEALTH
Zambia
Net EU contribution
€ 181 531,25
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Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Links
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HORIZON collaboration network
Other funding
€ 0,00
Other funding

€ 0,00

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European Union, 2023