

Update on national LTBI programme and examples of good practice from elsewhere



Outline

- Why should we bother?
- How do we do it?
- What about the blood tests?
- And what about the money?
- Can we make it work?
- How do we know it works?
- What's the progress?

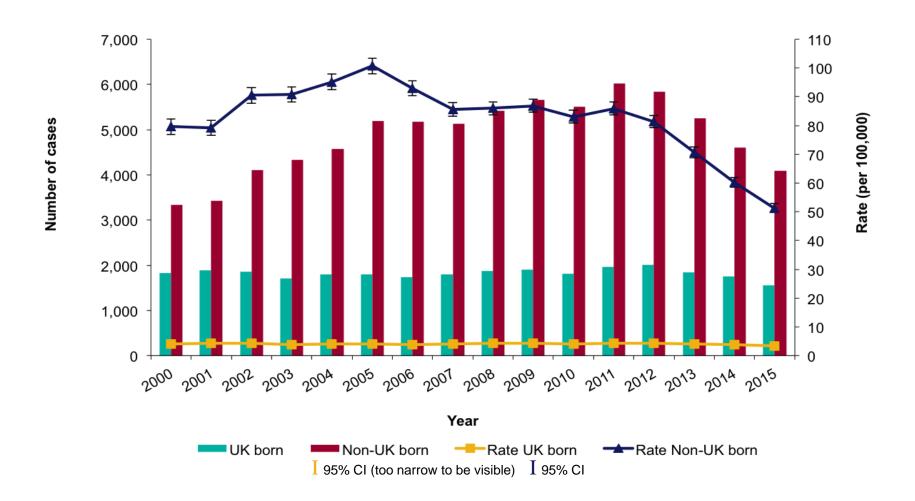




Why should we bother?



Incidence and cases in England 2000-2015



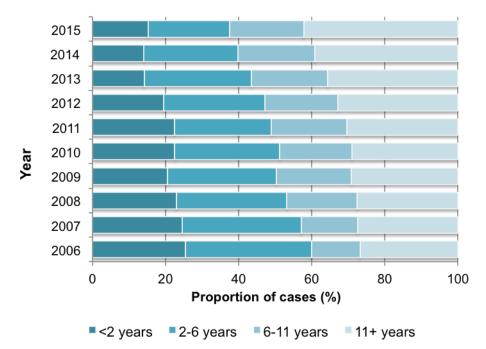




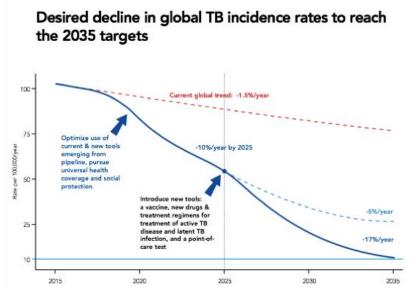
Reducing TB...

- In 2015...England TB incidence 10.5/100,000
- 73% occurred among people born outside the UK
- 86% of these occur more than two years post entry

Time between entry to the UK and TB notification for non-UK born cases by year, England 2005-2015.



WHO End TB strategy
TB elimination in low incidence countries





Targeting TB incidence ...

Epidemiol. Infect. (2012), 140, 1862–1872. © Cambridge University Press 2012.

This is a work of the U.S. Government and is not subject to copyright protection in the United States doi:10.1017/S095026881100286X

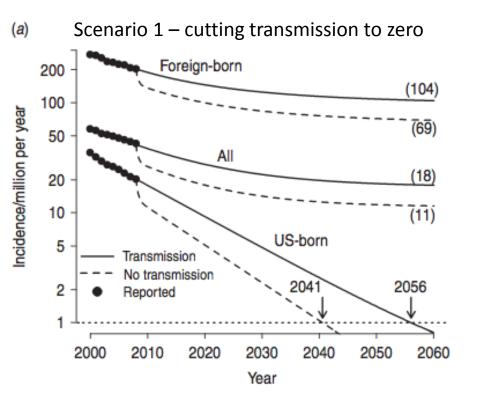
Modelling tuberculosis trends in the USA

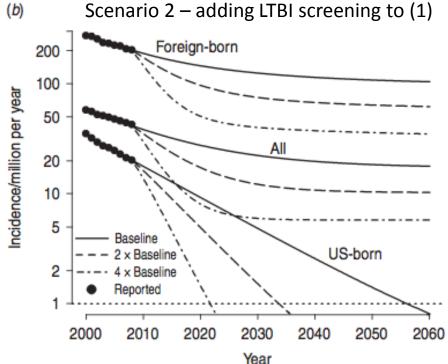
A. N. HILL*, J. E. BECERRA AND K. G. CASTRO

Division of Tuberculosis Elimination, U.S. Centers for Disease Control and Prevention Atlanta, GA, USA

"It seems reasonable to assume that targeted testing and treatment of LTBI will be necessary ... to achieve levels close to elimination in an acceptable timeframe."

Hill et al, 2012







How do we do it?



The TB strategy for England

...with the aim of achieving a year-on- year decrease in incidence, a reduction in health inequalities and, ultimately, the elimination of TB as a public health problem in England

- Improving access and early diagnosis
- High quality diagnostics
- High quality treatment and care services
- Contact tracing
- Vaccination
- Tackling drug resistance
- Tackling TB in underserved populations
- New entrant screening for LTBI
- Effective Surveillance and Monitoring
- Workforce strategy





Protecting and improving the nation's health

Collaborative Tuberculosis Strategy for England

2015 to 2020





The national LTBI testing programme

- Primary care based testing
- Secondary care based treatment
- National protocols and pathways
- Fully-funded
- Monitoring and evaluation



Eligibility criteria

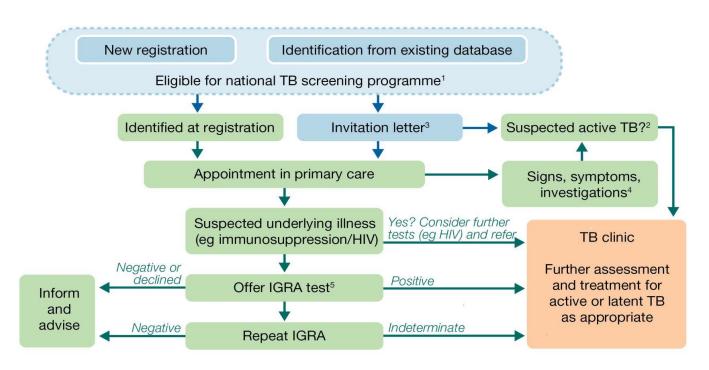
- a) Born or spent >6 m in high TB incidence country (≥150/100,000 or SSA)
- b) Entered the UK within the last 5 years (including entry via other countries)
- c) Aged between 16-35 years.
- d) No history of TB or LTBI
- e) Not previously screened for LTBI in UK



Protecting and improving the nation's health



Latent Tuberculosis Infection (LTBI) testing and treatment algorithm



- 1 Full eligibility criteria a) Born or spent >6 months in high TB incidence country (150 cases per 100,000 or more/Sub-Saharan Africa); b) Entered the UK within the last 5 years (including where entry was via other countries (e.g. within EU/EEA); c) Aged 16-35 years; d) No history of TB either treated or untreated; e) Never screened for TB in UK. Also review indication for LTBI screening using NICE guidance (e.g. if outside age group).
- 2 TB contacts should be referred to the local TB service. TB suggestive symptoms include a) Cough> 3 weeks; b) Haemoptysis (cough with blood); c) Night sweats; d) Unexplained weight loss; e) Unexplained fever; f) Lymph node swelling (especially cervical).
- 3 The invitation letter advises patients to seek clinical care if they have symptoms of TB
- 4 The recommended investigations prior to referral will depend on local arrangements, but might include CXR and sputum collection as appropriate NB- colours of the boxes denote location and responsibilities: blue- systematic identification mechanism; Green- Primary Care; Orange- Secondary Care
- 5 Also offer HIV test according to BHIVA/HPA recommendations and consider hepatitis B/C testing where appropriate.

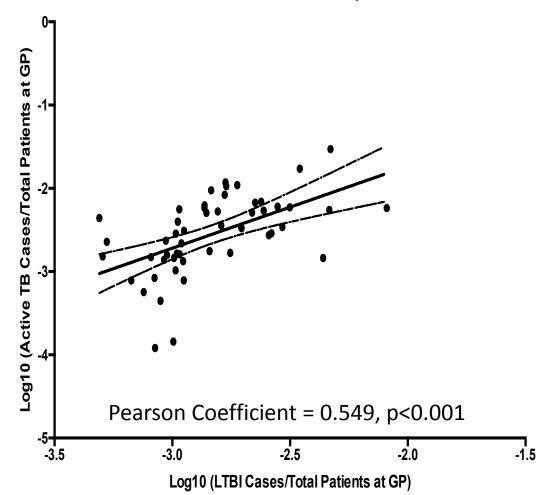


Why focus on high risk areas?

LTBI Cases and Active TB cases per GP Practice

Excluding

- LTBI identified by Contact Tracing
- Active Cases
 Identified from LTBI
 Screening





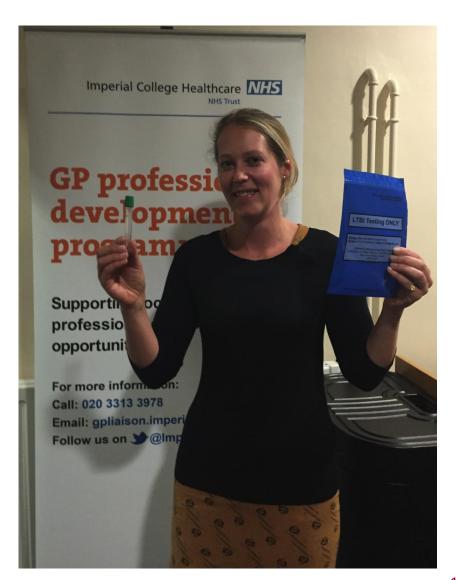
What about the blood tests?



Two IGRAs: QFT and T-spot

- National tender exercise: now list of lab providers who are part of a framework contract
- Implications for pricing and quality
- CCGs decided (and in most areas agreed) on lab arrangements
- Nationally determined KPIs
- Lab providers are keen to ensure slick testing and resulting
- Local guidance and tools from providers
- Results through electronic system (e.g. ICE)

Lab arrangements





... and what about the money?



Budgets

- NHSE funding for LTBI testing and treatment is £10m annually
- Five year plan with likely funding for future years 2017/18 approved
- All 58 high burden CCG areas had funding agreed
- About 20% for primary and 80% for secondary care
- All aspects of the programme funded including tests, GP incentives and LTBI treatment costs, as well as project management aspects
- It is essential that moneys are regarded as ring-fenced and activity and spent monitored

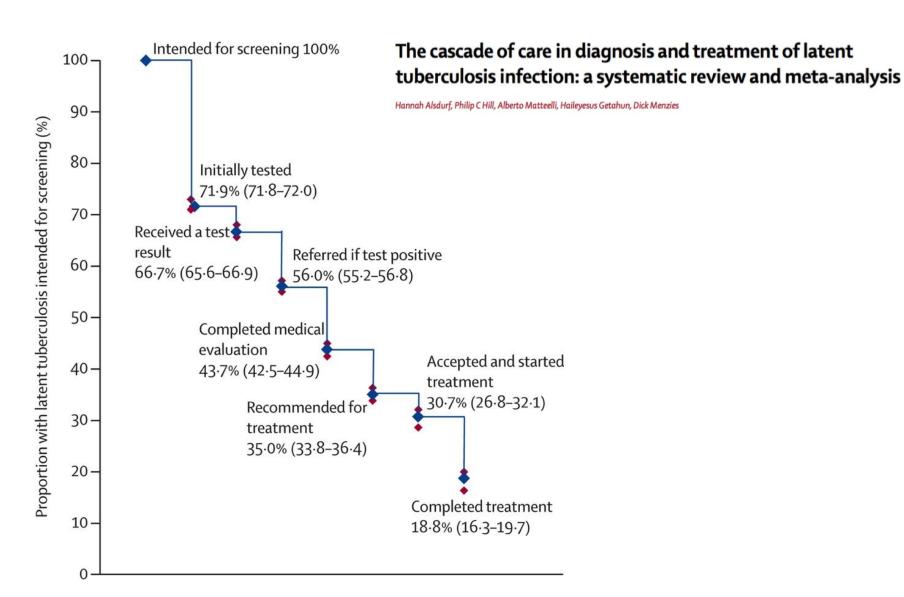




Can we make it work?

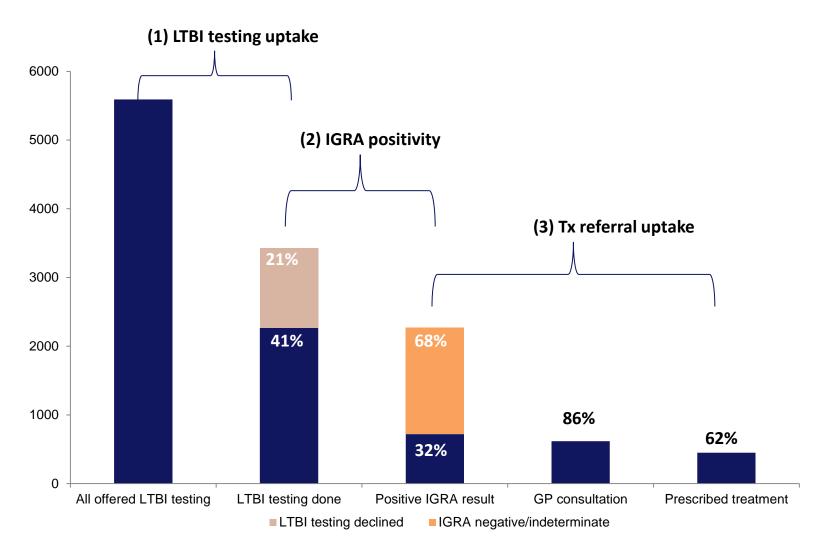


Do we loose people...?





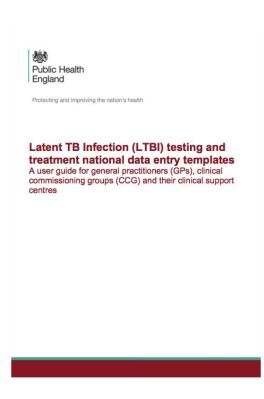
Yes we do!





Guidance...

For data returns



For for doctors and commissioners





Collaborative
Tuberculosis
Strategy:
Commissioning
Guidance





Protecting and improving the nation's health

Latent TB testing and treatment for migrants

A practical guide for commissioners and practitioners

For patients





Latent TB testing and treatment: Information for patients



https://www.gov.uk/guidance/tuberculosis-screening

https://www.england.nhs.uk/resources/resources-for-ccgs/out-frwrk/dom-1/tb-strategy/faqs/



Uptake and completion

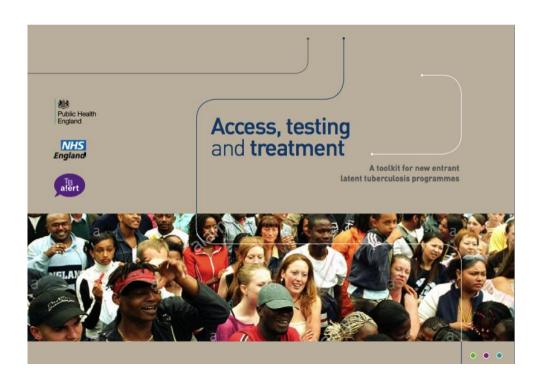


Figure 1: Steps along the patient pathway





How do we know it works?



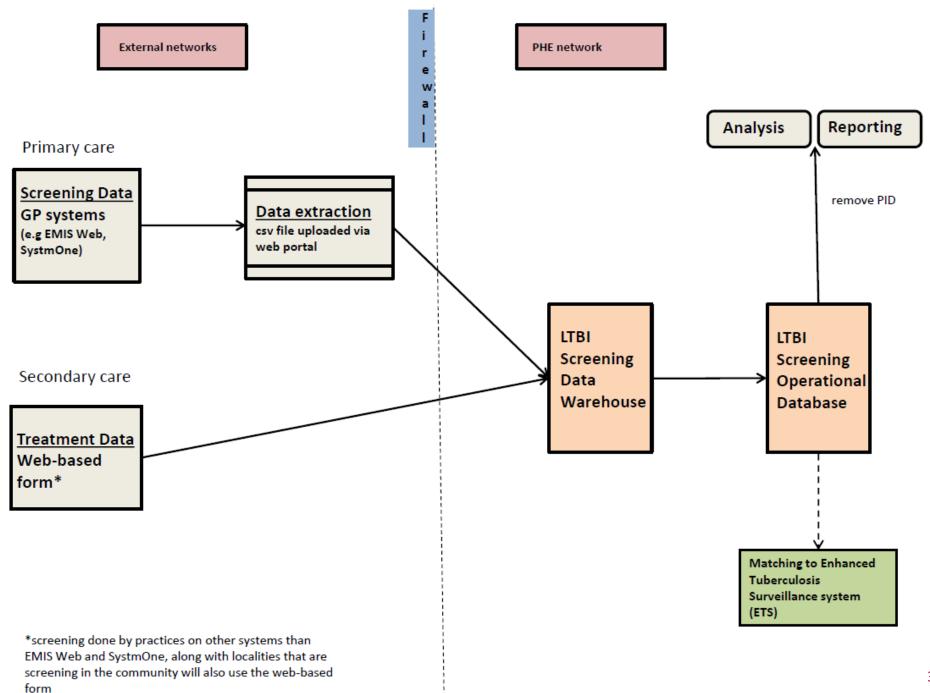
Public Health Why do we need data anyway?



Two components

- 1) Monitoring = Driving with eyes open
- Process indicators to ensure the programme runs and delivers well
- 2) Evaluation = Spending with eyes open
- Outcome assessment of effectiveness and cost effectiveness



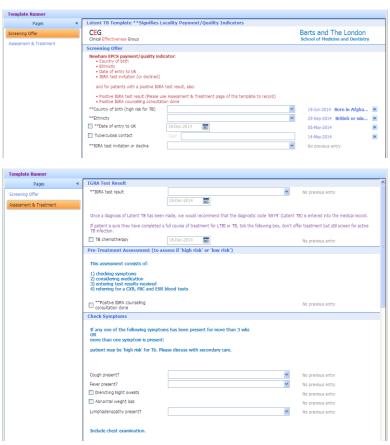


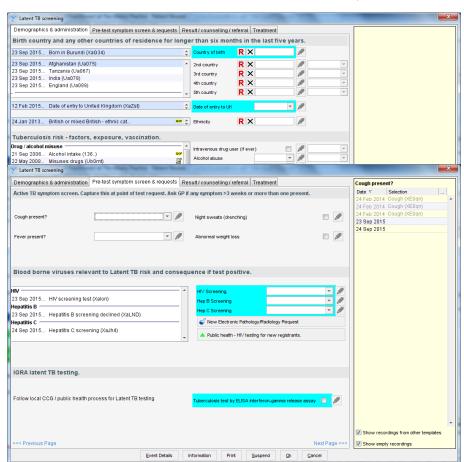


GP templates for data entry

EMIS Web

SystmOne





Web-entry: https://surveys.phe.org.uk/TakeSurvey.aspx?SurveyID=latentTBscreening

User guide: https://www.gov.uk/government/uploads/system/uploads/attachment_da ta/file/501736/LTBI GP templates user guide.pdf



LTBI T&T monitoring

Process indicators to ensure the programme runs and delivers well

LTBI testing and treatment programme coverage

The number of local authorities that have a systematic new entrant LTBI testing and treatment initiative in place

LTBI testing acceptance

Proportion of eligible new entrants covered by LTBI testing programmes who accept LTBI testing

IGRA test performance and LTBI positivity

The proportion of positive, negative and indeterminate tests

LTBI treatment uptake

The proportion of patients who take up treatment amongst those who have been offered it.

LTBI treatment completion

Proportion of individuals who complete LTBI treatment amongst those who start treatment

Adverse events from LTBI treatment

The proportion of patients who experience significant drug events amongst those who initiated treatment.

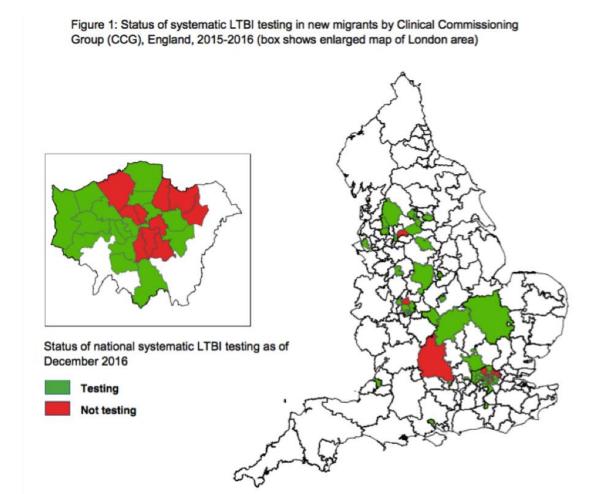


What's the progress



Progress 1

- 58 of 59 eligible areas submitted bid
- CCGs with TB rate <20/100,000 and/or >0.5% of total national case load

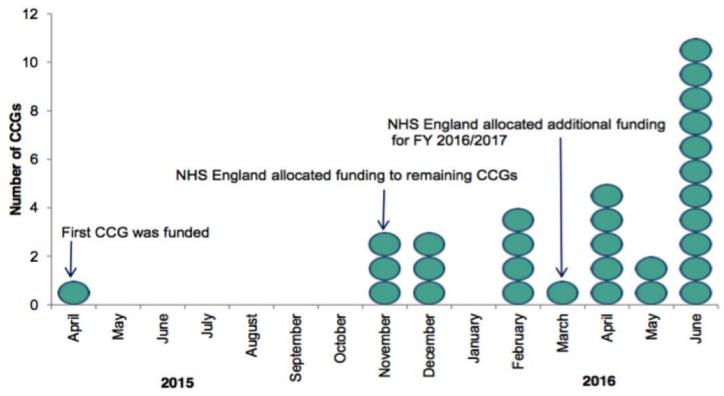




Progress 2

- 48 CCGs (82% of 58 priority CCGs) have started testing*
- 28 of these 48 CCGs have submitted data to PHE*

Figure 10.1: Timeline (by LTBI testing start of CCG) of the national LTBI testing and treatment programme roll-out April 2015 - June 2016

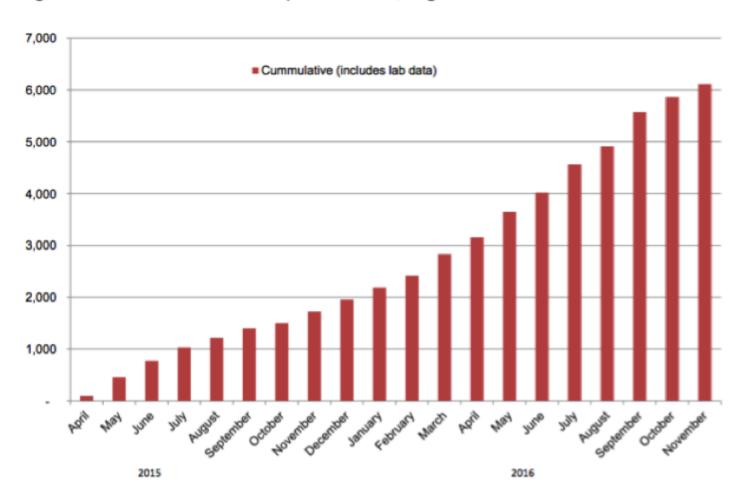


^{*}Data accurate as of December 2016



Progress 3

Figure 2: Number of LTBI tests* reported to PHE, England 2015-2016





Best practice examples

Regular meeting and clear project management

Newham, Greenwich, Birmingham, Inner NW London, Yorkshire & Humber....

Careful monitoring and operationalising findings

Newham, Birmingham...

Learning from and utilising existing services

Lancashire migrant service, Yorkshire university service, Birmingham ESOL

Multidisciplinary leadership and integration

Birmingham, Newham, etc. etc...

Contribution to research and national policy

Newham, Yorkshire and Humber, Birmingham

Going for awards

Birmingham, Greenwich, Wolverhampton, Newham



Thank you



https://www.gov.uk/government/publications/collaborative-tuberculosis-strategy-for-england https://www.gov.uk/tuberculosis-screening