ALL LIVES HAVE EQUAL VALUE

LOOKING TO THE FUTURE: CONTROL OF TYPHOID IN THE NEXT DECADE

Anita Zaidi
10th International Conference on Typhoid and Other Salmonellosis

April 4, 2017
Typhoid is a quintessential disease of the poor

- Antibiotic resistance is increasing, severely limiting treatment options and likely to most impact the poor
- Dramatic improvements in water and sanitation have historically addressed the problem, but such a solution is not imminent in many endemic areas - water scarcity and urbanization could, in fact, confound improvements

There is reason to be optimistic about our ability to change the status quo

- Promising typhoid conjugate vaccines (TCVs) are on the near horizon
- Many geographies have eliminated typhoid as a public health concern - we believe this is possible in developing countries as well, primarily through accelerating TCV introduction in typhoid endemic areas, but also incorporating WSH strategies where necessary
TYPHOID VISION –
GETTING TO IMPACT:
GLOBAL TYPHOID
CONTROL BY 2035
DRIVING TOWARDS IMPACT THROUGH OUR 2020 GOALS

2020 goals

- At least 2 effective TCVs achieve WHO PQ by 2020
- Generate vaccine performance data to support WHO SAGE recommendations, Gavi funding decision, and country adoption
- Proof-of-concept demonstrated for next generation of broadly cross-protective salmonella vaccines
- Define and validate a toolkit of cost-effective interventions to reach our impact goal
- Build the case for adoption of a global typhoid control goal
- Assess the feasibility of typhoid elimination

Pathway to impact

- Highly efficacious vaccines ready to scale
- By 2020, as the result of our work, the world will be well-poised to scale up an appropriate toolkit on a pathway to sustained reduction by 2035
- Multi-sectoral toolkit capable of meeting 2035 goal defined
- Maximize effective coverage of interventions
- Sustained reduced incidence

Beyond 2020 timeframe
## KEY AREAS OF WORK REQUIRED TO ACHIEVE GOALS

<table>
<thead>
<tr>
<th>Key areas of work</th>
<th>2020 goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continued TCV development to ensure low-cost supply from multiple manufacturers</td>
<td>At least 2 effective TCVs achieve WHO PQ by 2020</td>
</tr>
<tr>
<td>Early development of next generation of broadly cross-protective salmonella vaccines</td>
<td>Proof-of-concept demonstrated for next generation of broadly cross-protective salmonella vaccines</td>
</tr>
<tr>
<td>Strategic lead partner to accelerate vaccine introduction (e.g. enhanced surveillance, data for financing and country decisions)</td>
<td>Generate vaccine performance data to support WHO SAGE recommendations, Gavi funding decision, and country adoption</td>
</tr>
<tr>
<td>Evaluate effectiveness of targeted WASH and vaccines in select geographies</td>
<td>Define and validate a toolkit of cost-effective interventions to reach our impact goal</td>
</tr>
<tr>
<td>Advocacy to mobilize resources and prioritization in the global typhoid community</td>
<td>Build the case for adoption of a global typhoid control goal</td>
</tr>
<tr>
<td>Transmission modeling, case studies, and basic carrier biology research</td>
<td>Assess the feasibility of typhoid elimination</td>
</tr>
</tbody>
</table>
IF YOU WANT TO GO FAST, GO ALONE.
IF YOU WANT TO GO FAR, GO TOGETHER.

— African proverb

TyVAC
Typhoid Vaccine Acceleration Consortium

Together, we can
#TakeonTyphoid
Open science

The findings of medical research are disseminated too slowly

*That is about to change*
GATES OPEN RESEARCH

A platform for rapid author-led publication and open peer review of research funded by the Bill & Melinda Gates Foundation

https://gatesopenresearch.org
ALL LIVES HAVE EQUAL VALUE

Look forward to working together to make global typhoid control a reality