Swaziland Baylor TB Centre of Excellence

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Associate Director, The Global Tuberculosis Program
The Global TB Program

MISSION STATEMENT

Our Global TB team works in complementary clinical, educational, and research arenas to improve the health and well-being of children affected by TB in all countries.

Our program aims to more effectively prevent, diagnose, and treat TB infection and disease in children to support an ultimate goal of TB elimination as targeted by the WHO.
The BIPAI Children’s Clinical Centers of Excellence Network (2015)

Kampala, Uganda
Mwanza, Tanzania
Moshi, Tanzania
Mbeya, Tanzania
Lilongwe, Malawi
Gaborone, Botswana
Mbabane, Swaziland
Maseru, Lesotho
Gondar, Ethiopia
Monrovia, Liberia
Luanda, Angola
Constanța, Romania
Setting up TB Services in Swaziland

• Baylor clinic was started in 2006
• TB services incorporated in 2008
  - Diagnosis
  - Treatment of DSTB and IPT
• Incorporated GXP in 2012, through a TB REACH grant
• In 2013 funding from Texas Children`s Hospital to develop a stand alone TB clinic
• In 2014 the NTCP, through Global Fund, allocated a digital X-ray machine
TB Centre of Excellence
Mbabane, Swaziland
Texas Children’s Global Health
Global TB, Swaziland
Comprehensive TB Services

Reference National Center

1 stop TB pediatric diagnosis approach

• On site GXP: specimen collection as needed for all ages (induced sputum, gastric aspirate, nasopharyngeal aspirate)
• On site digital radiographic services:
  - Telemedicine
• Treatment for DSTB and/or IPT services
Texas Children’s Global Health
Global TB, Swaziland
Training capacity

• The clinic serves as a training center for doctors and nurses: “Critical mass of children”
  - Attachments

• In house training: sputum induction (TOT), gastric aspirate…
1. TB REACH: Household Contact tracing

<table>
<thead>
<tr>
<th>MTB detected by age and site of collection</th>
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<tbody>
<tr>
<td>120,0%</td>
</tr>
<tr>
<td>100,0%</td>
</tr>
<tr>
<td>80,0%</td>
</tr>
<tr>
<td>60,0%</td>
</tr>
<tr>
<td>40,0%</td>
</tr>
<tr>
<td>20,0%</td>
</tr>
<tr>
<td>0,0%</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Axis Title</th>
<th>20,0%</th>
<th>40,0%</th>
<th>60,0%</th>
<th>80,0%</th>
<th>100,0%</th>
<th>120,0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home visit</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Facility</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Age</th>
<th>adult</th>
<th>children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home visit</td>
<td>48,8%</td>
<td>37,5%</td>
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<tr>
<td>Facility</td>
<td>51,3%</td>
<td>62,5%</td>
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</tbody>
</table>

82,2% of children with positive screening had neither GXP nor CXR completed

Need for “patient support”!!!!!
2. TB REACH: School Contact tracing

<table>
<thead>
<tr>
<th></th>
<th>School Contact tracing</th>
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<tbody>
<tr>
<td><strong>Total Screened</strong></td>
<td>1068</td>
</tr>
<tr>
<td>Screening positive</td>
<td>150</td>
</tr>
<tr>
<td>Tested</td>
<td>135</td>
</tr>
<tr>
<td>Positive GXP</td>
<td>0</td>
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</tbody>
</table>
3. TB REACH: training

Free pediatric TB-HIV Hotline
Up scale MDRTB Services

• Clinical follow up for MDRTB contacts

• Provide MDRTB treatment starting in 2016
Key Partnership

• National Tuberculosis Control Program: technical assistance for childhood TB
  - Development of guidelines, pilot new programs, trainings
• Stop TB partnership: TB REACH grant
• MSF, ICAP, Darmouth, PACT
• Rocking Horse Project
• Sentinel Project
• WHO child TB working group
• Missing partners… UNICEF, UNAIDS,
THANK YOU

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WWW.GLOBALTBPROGRAM.ORG