Every Child, Everywhere: Leveraging Innovation For Child-Friendly Medicines For Poverty-Related And Neglected Tropical Diseases

IMPACT AND CHALLENGES OF UNITAID PAEDIATRIC PORTFOLIO

Dr Philippe Duneton, Deputy Executive Director
Unitaid: a catalyst of innovation

**Mission:** maximize the effectiveness of the global health response by catalyzing equitable access to better health products

Health & Economic outcomes

Innovation
- Innovation & Availability
- Quality
- Affordability
- Supply & Delivery
- Demand & Adoption

Access

Scalability

Upstream partners

Unitaid grants

Scale up partners

Time
Children living with HIV are under-served population

- Limited availability of pediatric antiretroviral (ARVs) formulations
- Current regimen requires refrigeration, is extremely bitter to taste and has a high alcohol content
- Leads to poor adherence and side effects for infants, and supply chain challenges for countries.

Improved health outcomes are anticipated from the 4-in-1 regimen
Children have been under-treated for decades

- Crushing pills to get to correct dose
- Bitter taste
- Low treatment effectiveness: continued illness or death
- Rise of drug-resistant TB in children

IMPROVED FORMULATIONS
DISSOLVABLE AND FLAVOURED
IMPROVED ADHERENCE
LOWER RISK OF RESISTANCE

As of February 2018, 79 countries have ordered 590,000 treatment courses of new pediatric FDCs
SCALABILITY: SMC—Malaria Consortium & Catholic Relief Services

Children under 5 in the Sahel at high risk of malaria during rainy season

- Challenging to reach children in remote areas during the rainy season
- Limited available funding
- Low demand discouraged manufacturers from supplying market

- CHILD-FRIENDLY FORMULATIONS
- EFFECTIVE DELIVERY MODELS
- PREVENTION REDUCES FINANCIAL BURDEN
- SCHOOL AND WORK ATTENDANCE CAN IMPROVE

Over project life – 10m cases averted/60,000 lives saved
At scale – potential for 18m cases averted per year/100,000 lives saved per year
Diagnostics: a critical complement to pediatric treatment

**Point of Care diagnostics for early infant diagnosis of HIV**

- Faster test turnaround times – including same day
- More infants diagnosed & treated
- Cost-effective

*Grantees – EGPAF + CHAI/UNICEF*

**Decentralized childhood TB diagnostic approach to enhance case-finding**

- Generating evidence on the most appropriate decentralization strategy
- *Objective* - increase case detection from 25% to 50% in children with presumptive TB

*Grantees – University of Bordeaux*

**Better tools for integrated management of childhood fever**

- Open call for proposals seeking ideas to:
  - Pilot pulse oximeters adapted for point-of-care use in children in primary health care settings in LMICs
  - Large-scale field evaluations, market entry and market access activities, for multimodal devices in LMIC settings

Unitaid is making a significant investment into diagnostics to ensure that optimal pediatric treatments supported by Unitaid deliver maximum impact.