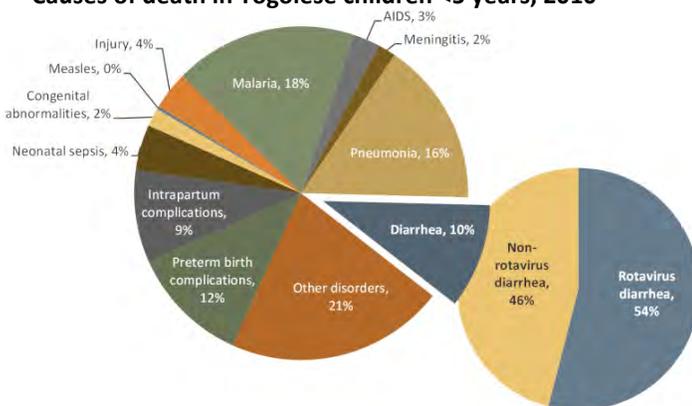


## Rotavirus disease and vaccines in Togo

Diarrhea is a leading killer of children in Togo, causing approximately 10 percent of deaths in children less than five years of age.<sup>1</sup> Rotavirus, the most common cause of severe and fatal diarrhea in young children worldwide, takes the lives of more than 1,000 Togolese children under five each year.<sup>2,3</sup> It is estimated that 54 percent of all under-five diarrheal disease hospitalizations in Togo are caused by rotavirus, and 91 percent of all rotavirus cases occur among children less than two years of age.<sup>4,5</sup> Studies in Africa show that rotavirus vaccines are safe and effective against severe rotavirus disease and are cost-effective.<sup>6-8</sup>

In early 2014, Togo will introduce rotavirus vaccines into its national immunization program with GAVI support. The burden of rotavirus disease in Togolese children, coupled with the power of rotavirus vaccines to prevent childhood deaths and hospitalizations, underscores the potential for Togo's introduction of rotavirus vaccines to save children's lives.

### Causes of death in Togolese children <5 years, 2010<sup>1,4</sup>



### ROTAVIRUS IS THE LEADING CAUSE OF SEVERE AND FATAL DIARRHEA IN AFRICAN CHILDREN <5 YEARS OLD

Globally, rotavirus causes more than 450,000 deaths each year in children under five and is responsible for millions of hospitalizations and clinic visits.<sup>2,3,9</sup> Nearly a quarter of a million African children die from the dehydrating diarrhea caused by rotavirus infection every year, accounting for more than 50 percent of the global total of rotavirus deaths.<sup>2,3</sup> The vast majority of countries with the highest child death rates from rotavirus are in sub-Saharan Africa.<sup>2,3</sup>

### Togo Facts

|  |                      |
|--|----------------------|
| <b>Total population (2012)<sup>10</sup>:</b>                       | 6,642,928            |
| <b>Population children &lt;5 (2012)<sup>11</sup>:</b>              | 1,069,408            |
| <b>Total live births (2012)<sup>11</sup>:</b>                      | 245,054              |
| <b>Mortality rate children &lt;5 (2012)<sup>11</sup>:</b>          | 96/1,000 live births |
| <b>Total number &lt;5 deaths (2010)<sup>1</sup>:</b>               | 19,375               |
| <b>Number of &lt;5 deaths due to diarrhea (2010)<sup>1</sup>:</b>  | 1,967                |
| <b>Number of &lt;5 deaths due to rotavirus (2008)<sup>2</sup>:</b> | 1,050                |

### ROTAVIRUS TREATMENT AND PREVENTION STRATEGIES

Rotavirus is highly contagious and spreads easily from person-to-person through contaminated hands and objects. It cannot be treated with antibiotics or other drugs. Mild rotavirus infections can be treated effectively in the same manner as other forms of diarrhea, by providing fluids and salts (oral rehydration therapy). However, children with severe rotavirus diarrhea can become dehydrated and often need intravenous fluids or they risk dying. In developing countries, this type of urgent health care is often inaccessible or unavailable, making rotavirus prevention through vaccination critical to saving children's lives.

Vaccination is the best way to prevent severe rotavirus disease and the deadly, dehydrating diarrhea that it causes. Improvements in water quality, hygiene, and sanitation stop bacteria and parasites that cause other forms of diarrhea but do not prevent the spread of rotavirus. Lifesaving rotavirus vaccines should be introduced as part of a comprehensive approach to control diarrhea, along with other interventions including oral rehydration therapy, exclusive breastfeeding, zinc treatment, and improvements in water and sanitation.

### TWO SAFE AND EFFECTIVE ROTAVIRUS VACCINES ARE SAVING LIVES TODAY

There are currently two orally administered rotavirus vaccines available: Rotarix<sup>®</sup>, manufactured by GlaxoSmithKline, and RotaTeq<sup>®</sup>, manufactured by Merck & Co., Inc. Both vaccines have been shown to be safe and effective in large-scale clinical trials in Africa, Asia, Europe, Latin America, and the US. Clinical trials in Africa (South Africa, Ghana, Kenya, Malawi, and Mali) found that

rotavirus vaccines reduced severe rotavirus disease by more than 60 percent during the first year of life, when children are at greatest risk of severe rotavirus disease.<sup>6,7</sup>

In June 2009, based in part on results from clinical trials in Africa demonstrating that rotavirus vaccines significantly reduced rotavirus disease in impoverished, high-mortality settings, the WHO Strategic Advisory Group of Experts recommended that rotavirus vaccines be included in all countries' national immunization programs.<sup>12</sup> As of March 1, 2014, more than 50 countries have introduced rotavirus vaccines in their national immunization programs, including more than 10 in Africa.<sup>13</sup> Twelve African countries in addition to Togo have been approved by GAVI for rotavirus vaccine support.<sup>14</sup>

Rotavirus vaccines are saving lives and improving health in countries where children have access to them. Swift and significant declines in hospitalizations and deaths due to rotavirus and all-cause diarrhea have been observed in many countries with rotavirus vaccines in their national immunization programs.<sup>15</sup> Rotavirus vaccines may protect unvaccinated children and adults by reducing spread of rotavirus (an effect called herd immunity).<sup>15</sup>

#### COMPREHENSIVE DIARRHEA AND PNEUMONIA CONTROL

In Togo, rotavirus vaccines will be launched concurrently with the pneumococcal conjugate vaccine. By introducing these vaccines together, Togo is taking a step forward in promoting the approach of the integrated Global Action Plan for the Prevention and Control of Pneumonia and Diarrhea (GAPPD), which advocates for the introduction of both vaccines as part of a comprehensive and integrated strategy to combat diarrhea and pneumonia.<sup>16</sup>

#### ROTA VIRUS VACCINES ARE COST-EFFECTIVE AND A WISE INVESTMENT

Rotavirus vaccines are cost-effective, and in GAVI-eligible countries, where 95 percent of deaths due to rotavirus occur, more than 2.4 million child deaths can be prevented by 2030 by accelerating access to lifesaving rotavirus vaccines.<sup>8</sup> If used in all GAVI-eligible countries, rotavirus vaccines could prevent an estimated 180,000 deaths and avert 6 million clinic and hospital visits each year, thereby saving US\$68 million annually in treatment costs.<sup>9</sup>

Rotavirus vaccines are an essential, lifesaving intervention in comprehensive diarrhea control. Accelerating access to

rotavirus vaccines will not only save the lives of Togolese children but also lessen the heavy economic and health burden of rotavirus disease, contributing to poverty reduction and economic growth. GAVI and its partners plan to support the introduction of lifesaving rotavirus vaccines in more than 30 of the world's poorest countries by 2015.

For more information on rotavirus disease and vaccines please visit <http://rotavirus.org>.

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