

Uganda Immunisation Investment Case

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What is a vaccine-preventable disease?

A **vaccine-preventable disease (VPD)** is an infectious disease that can be prevented by vaccination. Vaccines are designed to stimulate the immune system to recognize and fight off specific pathogens, such as bacteria or viruses, that cause diseases.

Key Takeaways for Uganda

\$251M

An underestimate of the current total burden of VPDs in Uganda.

89%

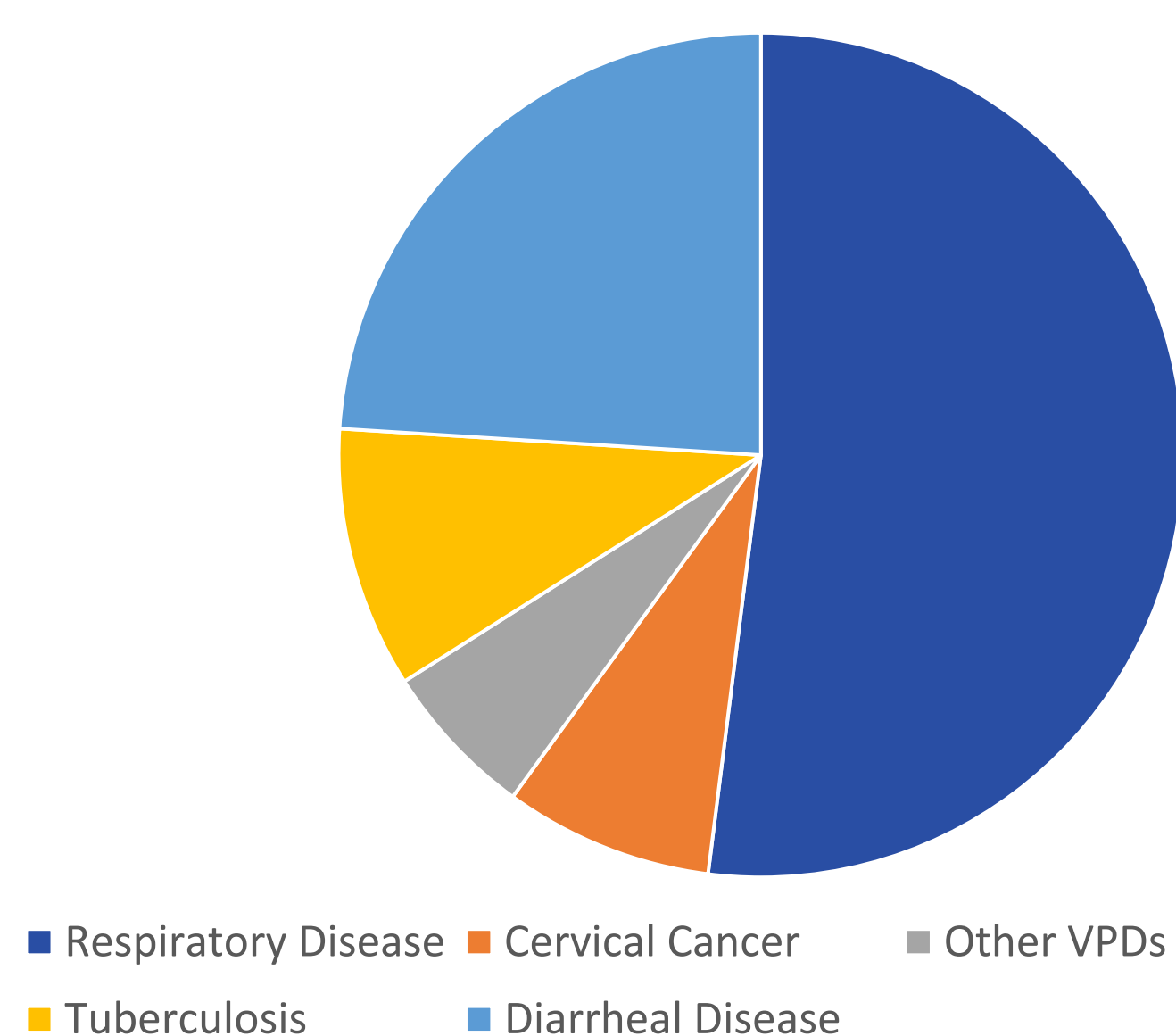
of the economic burden of vaccine-preventable diseases in Uganda is due to **indirect costs**.

\$1→\$3.13

Full scale-up of the existing immunisation services by 2035 has a **positive ROI of \$3.13 for every \$1 invested**.

- Although it has a high return on investment (**\$21.2 for every \$1 invested**), the shorter-term option of scaling up over the next 5 years will not get the desired immunization targets.
- Investing in the Uganda National Immunisation Programme is essential and beneficial (with a **-\$31.3 ROI for every \$1 dis-invested**).
- Resources permitting, introduction of some of new vaccines (MenA) is worthwhile, with a high return on investment (**\$16.8 for every \$1 invested**).

Share of Direct Burden of VPDs for Uganda



Respiratory diseases: USD 12.9 million

Diarrhoea diseases: USD 5.8 million

Tuberculosis diseases: USD 2.53 million

Other VPDS: USD 1.39 million

Unit Costs of the different scenarios for Uganda

Scenario 1: Full package

Unit cost of investment	5 years (UGX)	5 years (USD)	15 years (UGX)	15 years (USD)
Per surviving infant over the period	298,682	83.0	1,663,610	462.1
Per surviving infant per year	59,736	16.6	110,907	30.8

Scenario 2: Reduced package

Unit cost of investment	5 years (UGX)	5 years (USD)	15 years (UGX)	15 years (USD)
Per surviving infant over the period	29,243	8.1	250,975	69.7
Per surviving infant per year	5,849	1.6	16,732	4.6



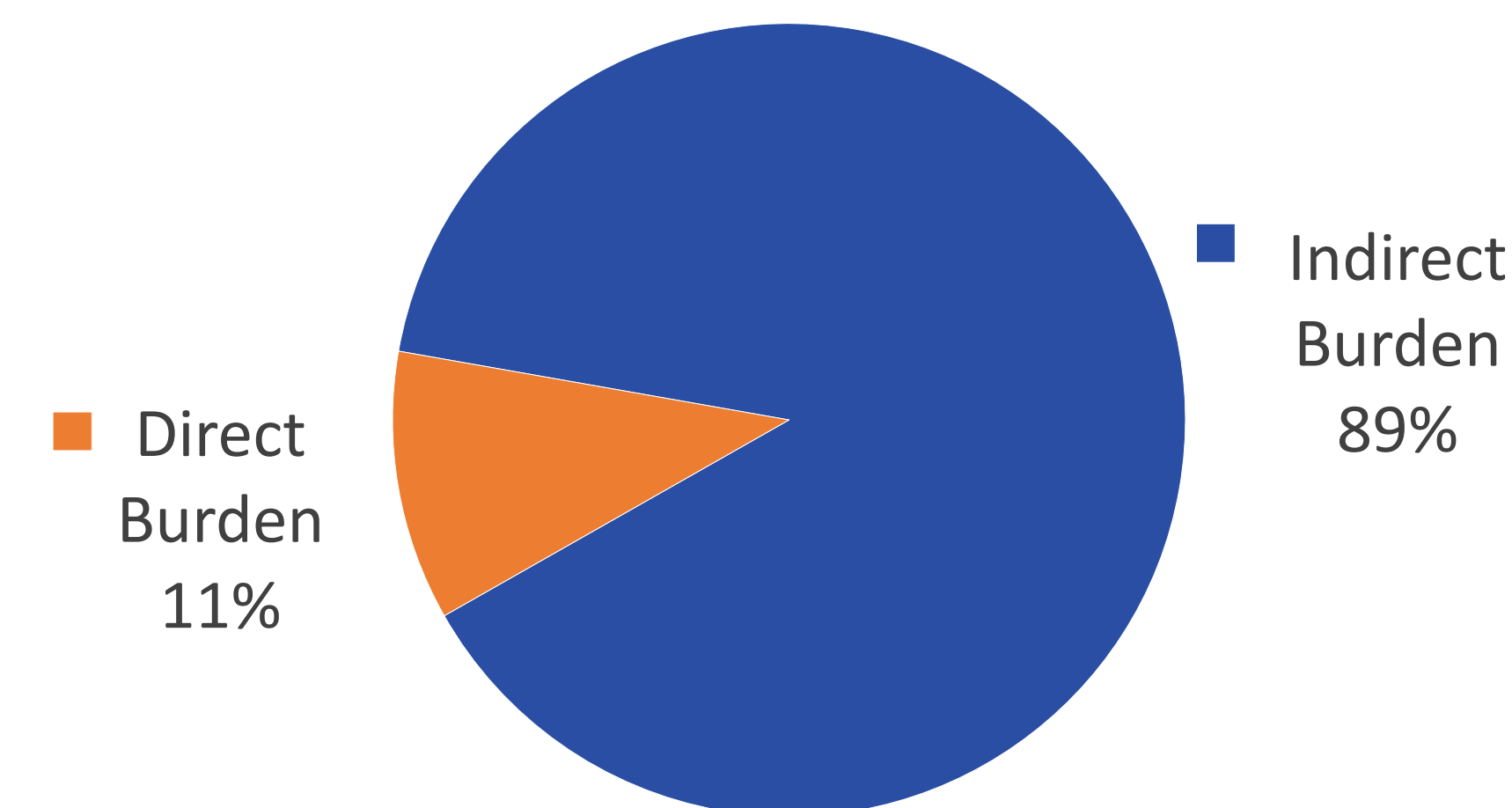
What we usually see

Public spending on prevention, diagnosis, & treatment of VPDs.

What we don't see

- Withdrawal from labour force
- Absenteeism/reduced productivity
- Deaths

Share of Total Economic Burden of VPDs (2019) for Uganda



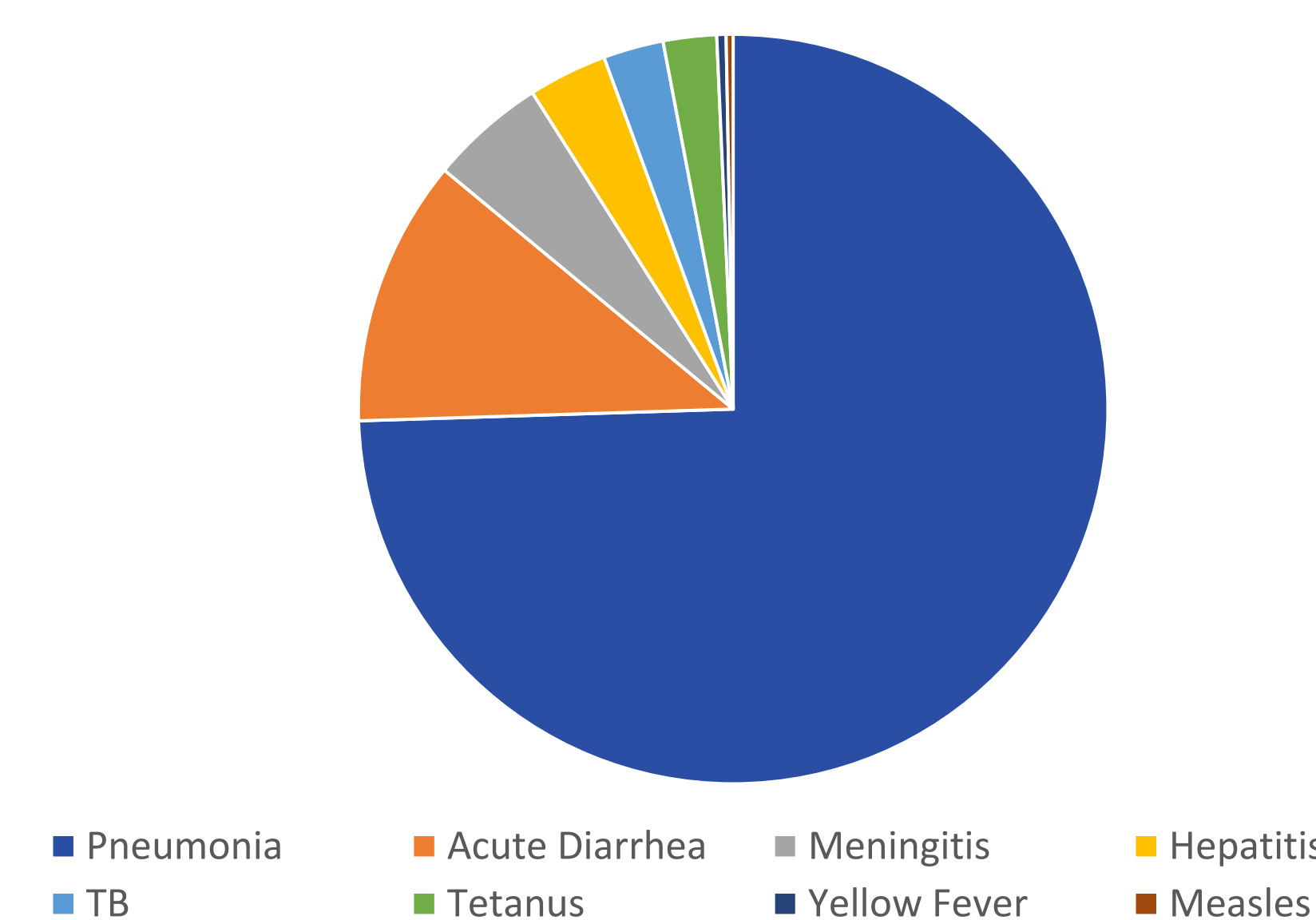
\$251.1M
Total Economic Burden

0.6%
of GDP 2019 =
Total Economic Burden

\$24.7M
Direct costs (2019)

\$190.4M
Indirect costs /
productivity losses
(2019)

Share of Indirect Burden of VPDs for Uganda



Pneumonia: \$141.8m

Acute Diarrhoea: \$21.8m

Meningitis: \$9.53m

Hepatitis: \$6.6m

TB: \$4.9m

Tetanus: \$4.4m

Yellow fever: \$0.77m

Measles: \$0.64m

Return On Investment for Uganda

