FOURTEENTH INTERNATIONAL ROTAVIRUS SYMPOSIUM MARCH 14-16 2023 BALLINDONESIA

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GADJAH MADA

THE BURDEN OF ROTAVIRUS



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With all the Rotavirus Surveillance team

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UNDER-FIVE MORTALITY DUE TO DIARRHEA



LOCALLY ROOTED, GLOBALLY RESPECTED

DIARRHEA: THREATS TO CHILDREN'S QUALITY OF LIFE







Height

Growth shortfalls of up to 8.2 cm by age 7 years have been attributed to recurrent episodes of diarrhoea during early childhood¹



Fitness

 Fitness impairment scores are
 substantially reduced
 4–6 years following
 recurrent episodes of
 diarrhoea during early
 childhood²



I.Q.

Repeated episodes of diarrhoea in the first 2 years of life can lead to a loss of IQ points^{2,3} and an additional 12 months of schooling by age 9 years

DALY, disability adjusted life years

1.Moore *et al* (2001:1457–64); 2. Guerrant *et al*, (1999: 707–13); 3. Niehaus *et al* (2002: 590–3)

LOCALLY ROOTED, GLOBALLY RESPECTED

Rotavirus:

the most common cause of dehydrating gastroenteritis in children



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LOCALLY ROOTED, GLOBALLY RESPECTED

ESTIMATED PREVALENCE OF RV BURDEN



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WORLDWIDE



Parashar, et al, 2006

Soenarto, et al., 2009 & Wilopo, et al, 2009

INDONESIA

LOCALLY ROOTED, GLOBALLY RESPECTED

ROTAVIRUS VACCINE INTRODUCTION: in 114 Countries, Year 2022





View-Hub Report IVAC, 2022

LOCALLY ROOTED, GLOBALLY RESPECTED

ROTAVIRUS SURVEILLANCE IN INDONESIA



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KEMENTERIAN REPUBLIK INDONESIA





LOCALLY ROOTED, GLOBALLY RESPECTED

FINDINGS OF ROTAVIRUS SURVEILLANCE IN INDONESIA: 2004 - 2022



LOCALLY ROOTED, GLOBALLY RESPECTED

THE BURDEN OF ROTAVIRUS DISEASE IN INDONESIA



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RV infection remains as the major burden disease in Indonesia

Continuous surveillance is important to monitor the prevalence of rotavirus infection and detect the circulating genotypes.



Comprehensive monitor is needed for introduction and implementation of the rotavirus vaccine in the National Immunization Program.

THANK YOU



The Journal of Infectious Diseases	Vaccine Volume 36, Issue 51, 14 December 2018, Pages 7826-7831
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Articles Articles Research Open Access Published: 29 January 2016 Detection of group A rotavirus strains circulating among children with acute diarrhea in Indonesia dera Ninuti T Ti Wibawa, Abu Tholib Amap. Abdul Wabab & Yati Socarata	Home > Archives of Virology > Article Original Article Published: 18 March 2019 Norovirus and rotavirus infections in children less than five years of age hospitalized with acute gastroenteritis in Indonesia Hera Nirwati, Celeste M. Donato, Yuli Mawarti, Nenny S. Mulyani, Aqsa Ikram, Abu T. Aman, Maikel P. Peppelenbosch, Yati Soenarto, Qiuwei Pan & Mohamad S. Hakim ☑ Archives of Virology, 164, 1515–1525 (2019)
Detection of group A rotavirus strains circulating among children with acute diarrhea in Indonesia	in Indonesia Hera Nirwati, Celeste M. Donato, Yuli Mawarti, Nenny S. Mulyani, Aqsa Ikram, Abu T. Aman, Maikel P. Peppelenbosch, Yati Soenarto, Qiuwei Pan & Mohamad S. Hakim ⊠ Archives of Virology 164, 1515–1525 (2019) Cite this article

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