





PRASANNA SCHOOL OF PUBLIC HEALTH

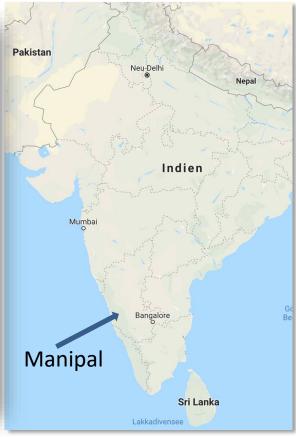
MANIPAL

(A constituent unit of MAHE, Manipal)

Helmut Brand

ASPHER Deans' and Directors' Retreat – London 2018
ASPHER General Assembly
20 June 2018











ACADEMIC STREAMS

Allied Health Sciences Architecture Atomic & Molecular Physics Dentistry Engineering **European Studies** Geopolitics **Hotel Management** Information Science **Humanities Library Science** Life Sciences Management Media & Communication Medicine **Natural Sciences** Nursing **Pharmacy Public Health Sciences** Virus Research **Statistics**

20 INSTITUTIONS 33536 STUDE **GREEN GLOBAL CAMPUS** Ranked 101 amongst BRICS nations (QS University Ranking - BRICS 2016)

Ranked 200 amongst Asian universities & ranked No. 17 in India (QS University Ranking - Asia 2016)

Ranked 801 + Times Higher Education World Ranking 2016

Ranked no. 1 among the top private universities in India (EducationWorld)

Ranked No. 1 among top private universities in India (Careers360)

Best University promoting Research (ASSOCHAM, India)











Nipah virus outbreak in India

A Nipah virus outbreak has been declared in India. Experts say they have contained the outbreak using lessons learned from previous outbreaks. Patralekha Chatterjee reports from Delhi.



Sajeeshetta, am almost on the way. the spread", virologist Arunkumar spreading among the pig herds, and was in two districts in Kerala. Many victims systems being put in place to ensure are from one family in Kozhikode.

victims in late 1990s in Malaysia and Nipah virus infected cases." Singapore, Since then, it has surfaced in West Bengal in India and in Bangladesh. "WHO has recently convened a Currently there is no vaccine for Ninah virus. The primary treatment for humans is supportive care, says WHO. Fruit bats are the natural host of the Nipah virus, but in Malaysia, pigs were the intermediate hosts. In more recent infected body fluids has been raised.

are mediated by many factors which working group," Sadanandan added Kerala's top health bureaucrat.

Sadanandan told The Loncet.

through droplet infection led to named Nipah virus, that this virus was Patralekha Chatterjee

I don't think I can meet you again. Govindakarnavar, head of the transmitted to humans from the pigs" Sorry. Please look after our little Manipal Centre for Virus Research Jane Cardosa, a virologist now retired ones... With lots of love and kisses", in neighbouring state of Karnataka, from Universiti Malaysia Sarawak, told Lini Puthussery, nurse and mother of told The Lancet, Govindakarnavar was The Lancet, Cardosa has spent most two, said in a poignant letter written among those who played a crucial of her life working on flaviviruses and to her husband shortly before she role in identifying the Nipah virus enteroviruses. "The outbreak was finally died from Nipah virus infection. She from body fluid samples of patients controlled by massive culling of the was working in a subdistrict hospital in the latest outbreak in Kerala. "This pigs, Hence, in my view, the key lesson in Kerala's Kozhikode district, tending was a subdistrict-level hospital. Quite from the Malaysian experience is that to patients affected by the Nipah virus. overstretched. Now infection control competent and honest epidemiological The virus has already claimed 14 lives measures are being initiated, and investigations are extremely important." that all health workers, attendants, and are the importance of surveillance This is Kerala's first outbreak of Nipah care-givers use appropriate personal to quickly identify outbreaks, the

> Task Force to draw up a roadmap for the development of diagnostics, therapeutics, and vaccines for Ninah "

there being no infections, as infections through our antimicrobial resistance research and response", she added.

department", says Rajeey Sadanandan. was first reported, the epidemiological for the development of diagnostics. situation was very different from that therapeutics, and vaccines for Nipah. The "We picked up the infection at the in Kerala. The virus, which first affected. Center for Epidemic Preparedness and earliest. All the contacts were traced pig farmers and farm workers, was Innovation has announced that it will and kept under surveillance, those originally incorrectly assumed to be fund the development of Nipah vaccines with symptoms moved to isolation Japanese encephalitis. The outbreak for humans, However, until more tools ward and managed there with the control measures, put into place become available, surveillance and highest infection prevention and to control the spread of Japanese outbreak response remain the most control measures. The outbreak has encephalitis virus, were ineffective. "It effective public health tools to combat been contained in the least possible was months later that the Ministry of and contain this disease, Gurley added. time with the least amount of deaths", Health finally accepted that it was a Investigations are ongoing to find the not [Japanese encephalitis virus] but source of Kerala's Nipah outbreak. "The human-to-human transmission a newly described virus, subsequently

"The Jessons Jearned in Bangladesh

virus. The virus daimed its first known protective equipment while caring for centrality of research as a part of outbreak preparedness and response. and use of the one health approach to study emerging zoonotic diseases like Minah" Emily Gurley infectious disease. epidemiologist and Associate Scientist at the Johns Hopkins Bloomberg School of Public Health who has been studying Nipah virus in Bangladesh since 2004, told The Lancet. "In order to outbreaks, the risk of human-to-human "As part of our initiative on anti- tackle these public health problems, we transmission through contact with microbial resistance, we had revamped need experts from many disciplinesour Infection Prevention and Control such as physicians, epidemiologists, Kerala has among the best health (IPC) strategies. But it has been shown microbiologists, veterinarians, and social indicators in India. "But having a good to be inadequate. Once the outbreak is scientists. Bangladesh has been a leader health system is no quarantee against over, we will revisit our IPC strategies in the one health approach to Nipah

WHO has recently convened a

www.thelancet.com Vol 391 June 2, 2018

the spread", virologist Arunkumar Govindakarnavar, head of the Manipal Centre for Virus Research in neighbouring state of Karnataka, told The Lancet. Govindakarnavar was among those who played a crucial role in identifying the Nipah virus from body fluid samples of patients in the latest outbreak in Kerala. "This was a subdistrict-level hospital. Quite





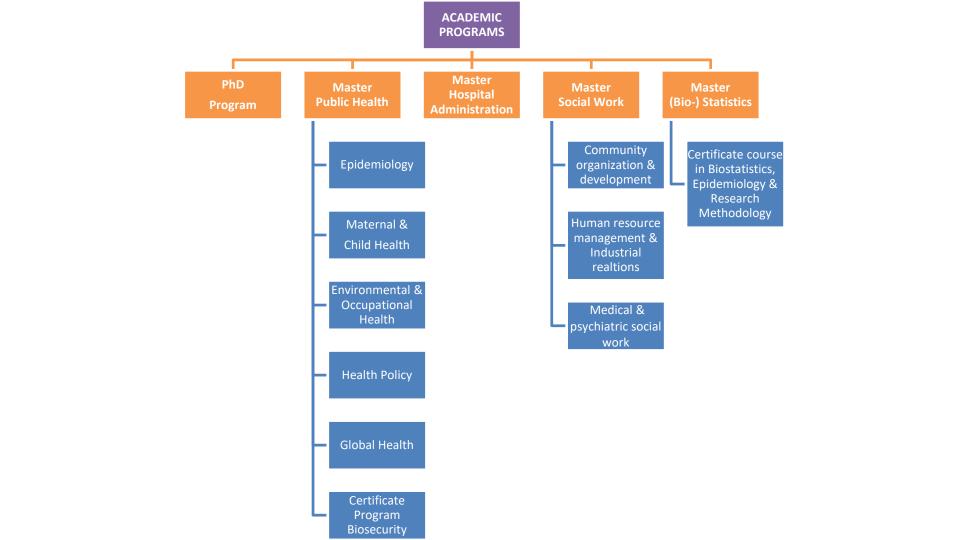














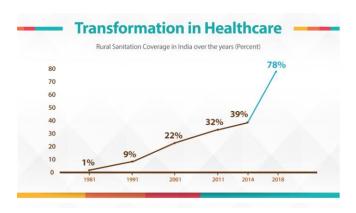






What makes Prasanna School of Public Health special: "Looking ahead to India in 20 years"

(Digitalisation, Automation, Demographic Change)



Smartphone Banking

Personal Identifier = Aadhaar

Indirect Tax = GST

Demonetarisation

Modicare: 100 Mio Families = 500 Mio people 500.000 Rupees/Years = 7.500 Euro, Budget 1,3 Billion Euro







Thanks for Listening!

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