Fortifying against the COVID War
The Apollo Way

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Clinical Professor
Faculty of Medicine and Health Sciences
Macquarie University, Sydney, Australia

Senior Consultant Pediatric Gastroenterologist and Hepatologist
1.36 Billion Indians

17.7% of the world population
603 million Indians voted in 2019
We understood frugal innovation

India’s Frugal Mission to Mars
Comparative costs of travel to the red planet in recent years

<table>
<thead>
<tr>
<th>Mission</th>
<th>Cost of Mission</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA’s MAVEN</td>
<td>$671 million</td>
</tr>
<tr>
<td>European Space Agency’s Mars Express Orbiter</td>
<td>$386 million</td>
</tr>
<tr>
<td>Japan Aerospace Exploration Agency’s NOZOMI</td>
<td>$189 million</td>
</tr>
<tr>
<td>Russian Federal Space Agency’s PHOBOS-GRUNT with Chinese Satellite</td>
<td>$117 million</td>
</tr>
<tr>
<td>Indian Space Research Organisation’s MANGALYAAN</td>
<td>$74 million</td>
</tr>
</tbody>
</table>

Cost: $100 Million  Cost: Only $74 Million
Comprehensive Response System was put in place before the WHO declared coronavirus as a public health emergency.

- Passengers were screened at 30 airports, 12 major and 65 minor ports and at land borders.
- Evacuation of Indians in other countries.
- Quarantine facilities.
- Expansion of testing facilities.
- Enhancing infrastructure.
- Engagement of private sector.

30 January 2020
1st Case to 560th Case (55 days)
COVID-19 lockdown in India

Ban on people from stepping out of their homes
All services and shops closed except pharmacies, hospitals, banks, grocery shops and other essential services
Closure of commercial and private establishments (only work-from-home allowed)
Suspension of all educational, training, research institutions
Closure of all places of worship
Suspension of all non-essential public and private transport
Suspension of all domestic and international airline operations
Prohibition of all social, political, sports, entertainment, academic, cultural, religious activities
Phase 1
25 March 2020 – 14 April 2020 (21 days)

Total confirmed cases in India
## In 21 days

<table>
<thead>
<tr>
<th>Country</th>
<th>Cases in 21 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>India</td>
<td>560 10,363</td>
</tr>
<tr>
<td>USA</td>
<td>560 162,148</td>
</tr>
<tr>
<td>UK</td>
<td>560 34,173</td>
</tr>
<tr>
<td>Italy</td>
<td>560 41,035</td>
</tr>
<tr>
<td>Spain</td>
<td>560 73,235</td>
</tr>
<tr>
<td>France</td>
<td>560 33,402</td>
</tr>
</tbody>
</table>
Aarogya Setu

You will be alerted if you come in close proximity with someone who has tested positive. The information is kept confidential and is used only for disease control and prevention.

If we are safe, India is safe.
Indians clap, ring bells to cheer emergency workers
Impact

Doubling rate, from 3 days prior to the lockdown to 8 days on 18 April

WHO praised the response describing it as "timely, comprehensive and robust"
Phase 2
15 April 2020 – 3 May 2020 (19 days)
Dispel the “darkness” spread by coronavirus
Phase 3
4 May 2020 – 17 May 2020 (14 days)

Total confirmed cases in India
Phase 4
18 May 2020 – 31 May 2020 (14 days)

Total Confirmed Cases in India
Days it took to move from ~560 cases to ~138,000 cases

<table>
<thead>
<tr>
<th>Country</th>
<th>Days it took from ~560 cases to ~138,000 cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>India</td>
<td>62 days</td>
</tr>
<tr>
<td>USA</td>
<td>20 days</td>
</tr>
<tr>
<td>Spain</td>
<td>30 days</td>
</tr>
<tr>
<td>Italy</td>
<td>41 days</td>
</tr>
<tr>
<td>France</td>
<td>40 days</td>
</tr>
<tr>
<td>UK</td>
<td>42 days</td>
</tr>
<tr>
<td>Germany</td>
<td>42 days</td>
</tr>
</tbody>
</table>
Major Gains

Cases growing at 5.3% in the last 5 days (doubling in 13 days)

From near zero, India now manufactures 4,50,000 PPE suits a day (600 lab-certified companies) and has become the world's second-largest manufacturer in two months
Advisories and Updates

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>States / Departments /Ministries</td>
<td>110</td>
</tr>
<tr>
<td>Hospitals</td>
<td>60</td>
</tr>
<tr>
<td>Travel</td>
<td>35</td>
</tr>
<tr>
<td>Citizens</td>
<td>23</td>
</tr>
<tr>
<td>Training Material</td>
<td>19</td>
</tr>
<tr>
<td>Employees</td>
<td>14</td>
</tr>
</tbody>
</table>
Apollo Hospitals Group

16 states

Hospitals 73
Clinics 90
Project Kavach ‘shield’

Information, screening and assessment, testing, to readying the infrastructure for quarantine and treatment
Specialized and dedicated teams
Infection control, patient management and treatment protocols
State-of-the-art PPE for staff
Hydrochloroquine prophylaxis for healthcare workers
First corporate hospital labs for RTPCR testing

Fever clinics
Clinical Trials

1. Solidarity Trial (WHO)
   Apollo Chennai is a part of the multinational Solidarity trial with retrovirals and remdesivir as treatment arms.

2. Tocilizumab in cytokine release syndrome
   Apollo Hospitals at Chennai, Hyderabad and Delhi are part of this trial.

3. Recombinant BCG
   Apollo Hospitals at Delhi, Chennai and Ahmedabad are a part of the study.

4. Convalescent plasma
   Apollo Hospitals at Chennai, Hyderabad, Ahmedabad, Kolkata, Mumbai and Delhi
Proposed Clinical Trials

1. Favipiravir

2. Nafamostat

3. A Phytopharmaceutical agent
e-ICU service to monitor patients in remote acute care centers using Telemedicine
Online Doctor consultation
Online booking of medicines and diagnostics
Doorstep sample collection and medicine delivery
A record 8000 people earned their certificate in less than 24 hours after its announcement.
Medvarsity in partnership with Apollo Hospitals and ISCCM
Integrated with a highly advanced ventilator simulator from Boston children's hospital
Dr. P.S. Vamseedhar
MD, DM, Nephrologist and Transplant Physician
Dr. P.S. Vamseedhar is a Senior Consultant at Apollo Hospitals, Visakhapatnam with 10 years of experience. His area of interest is Clinical Nephrology and Kidney Transplantation.

JOIN THE TALK ON
Acute Kidney Injury: An Overview

PRE CONCEPTION COUNSELLING CARE IN PR & AFTER DISCHARGE
Date – 7 March, 2020
Time – 12:00 pm

#EachForEqual

Ask your ques

“Coronavirus (nCoV)”
with Dr. P Vishnu Rao

Let’s discuss

LIVE on January 29th at 3 PM

SPECIAL 1066 FOR EMERGENCY
A Malaysian Miracle in the Middle of the COVID – 19 Chaos
Coronavirus Risk Scan
AI powered
Self-assessment tool
15 million people
Medically sanitized individual rooms across the country

All clinical protocols driven by Apollo

24/7 clinical monitoring

Door step delivery of medicine, sample collection

Door step delivery of F&B in contactless tamper proof packing
TENDER LOVING CARE KNOWS NO LOCKDOWNS

Apollo Hospitals is working round-the-clock to provide quality care to you, your family and colleagues.

For any queries regarding COVID-19, please call

1860-500-1066

24|7 COVID Helpline Service
The Global Indian Physician COVID-19 Collaborative

Global Association of Physicians of Indian Origin (GAPIO)
American Association of Physicians of Indian Origin (AAPI)
British Association of Physicians of Indian origin (BAPIO)
Canadian Indian Network Society (CINS)
Thanksgiving by the Community
We can
We must
We will