

Most Respected Honorable PMJi,

Warm Greetings from Medical Profession & key Professional Associations, Indian Medical Association & Association of Physicians of India.

My respects to your sir for your untiring efforts to successfully control the Covid Epidemic 2<sup>nd</sup> wave & saving precious lives of our Indian citizen.

Being a half Century Healthcare Physician of our Nation, I am sharing my thoughts with your good self on the Agenda of **“How to Successfully handle Covid Epidemic 2<sup>nd</sup> wave & prevent future waves too”**.

Confident sir, my inputs will further strengthen your hands in the Corona war II.

Regards & Respects,

Dr S. Arulraj



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## Corona War II winning & Future

Our video Conferencing on 24<sup>th</sup> March 2020, made Digital consultation possible & legal. Thanks for the same.

Covid 2<sup>nd</sup> wave is scorching our Nation.

We were supporting other Nations in Covid 1<sup>st</sup> wave & other countries are now coming for our rescue.

### Covid Scenario Today:

- Numbers are more; Death rate is more. More children are affected.
- Less work force – Doctors, Nurses & Para Medical
- Less Beds – within Public & Private Sector.
- O2 Beds are further daily needed.
- Oxygen supply is in short fall.
- Drugs shortfall is explicit.
- Ventilator shortfall
- Vaccine – short supply. Proposed vaccination couldn't take off on 1<sup>st</sup> May.

Realities, facts. We will come out of this Pandemic Positively under your leadership Sir.

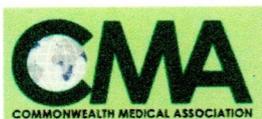
### A. How to win over the Corona war?

#### Four stake holders are involved.

1. Central Government
2. State Government
3. Medical & Health Profession
4. Public of our Nation.

All of us must joint hands firmly without reservation & fight.

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Wisdom



Smart Working



Achievement

## Issue based Inputs:

### 1. Less Beds more oxygen Beds.

- No Beds both in Public & Private Hospitals.
- Infection rate is around 3 to 4.5 Lakh / day.
- For each Positive Patient at least 10 non tested Positives exist

Hence 5 Lakh Additional ICU Beds Immediately.

**Beds** : 3-4 Lakh cases / day. Another 30-40 Lakh / day

30 % need = Admin – 10 Lakh / day

10 % need oxygen = 1 Lakh beds / day

Patient stays in Hospital average 7 days

We have around 1 Lakh oxygen / ICU beds. Need are 5 lakh more Beds needed.

#### How to create

- Private Hospitals** should equally participate but no mixing of Covid & Non Covid patients is acceptable. Must be encouraged to have separate access to both or have fully Covid centre. Willing Hospitals can be adapted with affordable acceptable Packages.
- Create **Temporary Covid care centers** in campus of Medical college Hospital, Medical colleges, (now kept closed) Public places like marriage halls, Hotels, Grounds, Parks etc.. equipped with oxygen, Ventilator, drugs & Manpower.

**Beds – early discharge when O2 need stops. May be 3-5 days.**

### 2. Health work force

Beds doesn't treat patients. We need Health Care Workers (HCW)

#### a) Doctors :

We need at least additional 1.5L Doctors to serve Covid Patient immediately. **We**

**have to engage:**

1. MBBS Doctors around 1.5 L studying for PG entrance in libraries
2. Around 1 L of FMG.
3. Post Graduate Students around 1 lakh
4. Lastly Final year Medicine students- Around 1-2 lakhs

They must be incentivized adequately. Also preference in PG entrance by extra marks & preference in Government Jobs.

#### B. Nurses:

- Key for Healthcare Delivery in ICU.
- Need at least 2 Lakh Nurses immediately for one year
- Get GNM completed Nurses waiting for Job or PG.
- Covid services will get preference for PG or Government service

-Adequate incentives.

- HCW – All must be vaccinated. Proper PPE kit & chemoprophylaxis with HCQS or Ivermectin as per ICMR guidelines.

All of them will need Training in Covid Protocols & Management.

B. **More field staff :“Health Inspectors ”** system followed during earlier epidemics must be strengthened for field working & monitoring.

**Village Health workers** to be increased too.

### 3. **Oxygen short supply:**

As per data we have nearly double the Number of oxygen being manufactured in India. Issue it is a supply chain deficit which can be easily corrected by Governments.

In addition when more oxygen beds are created further need will be a reality.

**Every Medical College must have compulsory oxygen plant.**

- NMC Amendment also confirms it recently.
- Cryogenic lorries needed to transport liquid oxygen from the plants.
- Oxygen – Oxygen Conservation guidelines are now available – use less O<sub>2</sub> ; More O<sub>2</sub> is dangerous to lungs too.
- Supplying – Demand chain must be strictly monitored & executed by district Administration & Health Authorities.
- Private Hospital also must be encouraged to setup their own O<sub>2</sub> plants.

### 4. **Ventilator shortfall**

Needs investments. National & International contributions are also sought.

We need to allot more funds from “PM care” for ventilators.

Again as per data Demand supply chain to be followed at District level itself

### 5. **Essential Drug shortfall -Remdesivir**

Available but strict action will prevent drugs going out of market. Government should start distributing as per demand supply chain

**Drugs – GST Exception & give benefit to Common Man. MRP not changed No GST or additional Taxes.**

### 6. **Vaccine not available**

It is a Governance issue. Allot as per Population

We have currently Two vaccines; one more will be soon available. More must be encouraged. India has vaccinated only 10-12 % of the population. At least 50 % to 75 % be vaccinated within 3 month to prevent 3<sup>rd</sup> wave & future waves.

**India Sources :**

Serum Institute of India

Bharat Bio Tech

Dr Reddy Lab

**Chennai, Guindyinstitute can be furnished to vaccine Manufacturing. Needs TN Government care.**

**Vaccine:** Updating is needed fitting to Mutant Genes, as being done in flu vaccine. New strains to be cared.

Booster done may be needed once in a year.

**International Funds or vaccines by Donations**

**-Purchase Fund to be allocated**

Demand supply chain are also to be monitored & executed.

Start Research or coordinate Research for vaccine below 18 years too . As Daily nearly 1000 Children are getting infected. Prediction says 3<sup>rd</sup> wave will affect children below 10 years more & will need Children Covid care centers.

**To reduce the cost of vaccine, seriously Consider Cancelling Patenting of vaccines– USA model.**

**Most powerful weapon in Corona war is Vaccine.**

7. **Transport System:** 105 Emergency Ambulances to be doubled for quick Transport
8. **Home care** for Covid to be engaged both by Public & Private sectors based on the Protocols.

**Execution Strategies :**

1. **National Covid Management Expert Group-** Union & state HMs
  - Union & State Health secretaries
  - Professional Bodies Representatives
  - NGOS
2. Strong liasoning& Coordination between Union & State Governments
3. Liasoningand coordination between Public and Private Health sector **Not by compulsion but by Mutual understanding**
4. Polices towards solving the followings Critical issues
  - Oxygen / ICU Beds
  - Doctors Number
  - Nurses & Para medical Number
  - Oxygen Availability
  - Vaccine availability
  - Drugs cost & availability
5. Transparent Execution
6. Online real Data – Number of cases

**No Editing of Data – Hospitals Beds**

Oxygen need

Vaccine Need

Drugs Need

Doctors & Nurses Need

Death

7. Strategic Planning based on data
8. Monitoring system Nationally
9. Public Awareness & adherences to prevention Guidelines  
Mask Distancing Handwash & Vaccine awareness  
-Frontline workers  
- Lockdown – National

Lockdown : National – 15 days Review & Partial Relaxation once in 15 days .

**Maintained till the daily cases comedown to 25,000/ day .**

**Lockdown support will be needed for the Poor.**

10. Liasoning with Medical Professional Associations ,NMC, & Nursing council

**11. Funds :**

- a) State & National Governments to postpone Luxury expenses & allot more funds for Corona war.  
-Invest on Health Infra, Manpower, Equipments , drugs & vaccine  
-Divert State & Central Health Budget to the above only.
- b) Donation from Public , Philanthropists, CSR, & Religious Leaders
- c) International Donations.
- d) Vaccine supply through NGOs like **Rotary who made our Polio Vaccine program historical**
- e) Channelise carefully the received & allocated funds so that transparency is full & not side tracking.

**12. Incentivise Covid warriors**

- a) Motivation
- b) Recognition
- c) Financial support – Adequate incentives & facilities
- d) Death Solarium – PM Scheme , State Scheme etc.  
At least 1 crore for Doctors  
50 lakhs for Nurses

25 Lakhs for Para Medical & Frontline workers to be given altogether

### 13. Health Insurance

Government schemes : National & state Eg: **Ayushman Bharath State CM schemes.**

- Cost must meet at least the expenses incurred
- Do cost working with Private Healthcare Provider representatives IMA & fix, so that Private Institution will adopt.
- **Avoid this Government schemes paying for Public Healthcare units –** they are already Government funded. This can be added to the cost for Private Providers .
- **National scheme can go through a charity unit instead of paying huge commission to Insurance Agencies.**
- It not Private sector Provider may fall out or offer poor service or Corruption will breed.
- **Private Insurances –** encouraged to support Covid Treatments too.

### 14. Research & Guideline

Focus & strengthen International Research on :Repurposed drugs, Vaccine for mutant strains, oxygen, Drugs etc..

2 - DG by DRDO is a great asset.

### 15. Administrative services :

Long pending **Indian Medical Services (IMS)** equitable to IAS etc to be quickly introduced to Strengthen Covid care system both in Government & Private Sector.

## B. Preventive Strategies

**More Testing** – PHC ,CHC , District Hospitals, Medical colleges  
Private Institutions& Labs etc.

Common Places - Bus , Train Stations, Malls etc.

### **Infectious Disease Hospitals:**

As done earlier in TB, Cholera **ID Hospital** set to be created at District wise with Infra, Manpower & Facilities.

**Public Awareness & Cooperation** – Through Political Leaders, Media, Medical Profession – Nurses & Frontline workers etc.

## C.Future Pandemic Preparedness

Invest on Health infra more. SDG too are important.

- CD & NCD are key area. Can be interchanged

- Health workforce to be adequate in number & working
- Health schemes must be Institution Friendly.
- Profession bodies Liasoningis the Pivot.
- IMS much needed
- Public Awareness & coordination to be strengthened.

**Herd Immunity :**

Herd Immunity occurs 75 % of the Population are immunized either by Infection or vaccine.  
 135cr Population 75 % = 100 crore around.

**Wave 2**

Infected – Daily 30 L – 3 month 27 -30 cr

Wave 1	infected:	30 cr
		-----
		60cr
		-----
Vaccinated	16 cr	16cr
		-----
Total		76cr

**We need atleast 25 crore population to be immunized by vaccination to reach to Herd Immunity & walk without Mask.**

Respected PMji,

**Long term definitive Solutions**

**We are working hard to realize your vision of a Developed India,** only through a Healthy India; How?

Health must become a constitutional right of Indians

Health care must be structured as Primary Secondary, Tertiary care

We cannot adopt **NHS model of UK** as India is vast.

**Cuban Model,** needs huge funds.

**USA Model,** we Indian cannot afford to pay.

Hence let us create **Indian Model**

**Government to Focus on Primary & early Secondary care**

Preventive Health too.



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Late Secondary care & Tertiary care can be taken care by Medical colleges & Private Sector;  
Government can buy them from Private care through affordable & Acceptable Health Insurance.  
Invest on Health Infra, Manpower, Equipments & drugs

**Emergency Preparedness is the key to handle Epidemics, expensive lesson learned from Covid war II.**

**Conclusions:**

- Demand supply chain efficiency
- Union State Governments Coordination
- Public Private health coordination
- Professional Association linking
- Allotting & securing adequate funds.
- Public awareness on prevention & vaccine
- Continued Research
- Emergency Preparedness.
- Healthy India

With your continued persuasions we will fight and win over Covid wave II & Prevent Covid wave III too.

Together we will achieve Sir

Regards & Respects

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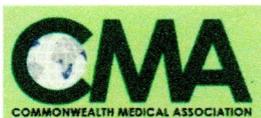
Founder Chairman CHPA, UK

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**Place :** Tuticorin

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