

# Protection of Health Care Professionals and Management of COVID - 19

*In preparedness of COVID-19.....*



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# Hospital Management during COVID-19 Pandemic

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**Chief Administrator**



# Brief Introduction:

- **Coronavirus disease 2019 (COVID-19)** was first detected in Wuhan, China, in December 2019
- **Pandemic timeline**
- Disease first identified in Wuhan City, Hubei Province, China in November 2019
- WHO declared a global emergency on 30 January 2020
- WHO declared a global pandemic on 11 March 2020

# Brief Introduction:

- Till date (7 Apr. 2020) nine positive cases have been detected in Nepal
- Nepal is in constant threat due to unobstructed flow of tourists from India and abroad hence “lock down”
- Nepal recently increased the number of test-centers in order to comply with the WHO dictum: Test, Test and Test
- **Chitwan Medical College** is geared to help Nepal government in this mission in all possible ways by formulating specific “COVID-19 plan of action”
- It is important to trace “Close Contacts” and get them tested
- Functioning Test Center in Bharatpur



## Operational Definition of “Close Contact”

### **Health care associated exposure:**

Providing direct care for COVID – 19 patients

Working with health care workers infected with COVID – 19

Visiting patients or staying in the same close environment of a COVID - 19 patients

Working together in close proximity or sharing the same classroom environment with a COVID - 19 patient

Travelling together with COVID - 19 patients in any kind of conveyance

Family member living in the same household with COVID - 19 patient

People sharing the same room with COVID



## Prevention and Control Management

COVID – 19 Response Team

**Prof. Dr. Shital Adhikari: Coodinator**

**Dr. Bishow Shrestha: Member**

**Usha Kumari Thapa: Member**

**Parash Adhikari: Member**

**Madhav Pun Magar: Member Secretary**



## Fever Clinic

### Layout

Independent fever clinic with an exclusive one-way passage at the entrance of the hospital with a visible sign

### Triage

Clearly demarcated 3 zones:

- Contaminated zone
- Potentially contaminated zone
- Clean zone

Standardized and supervised protocol to don and doff PPE for health care professionals

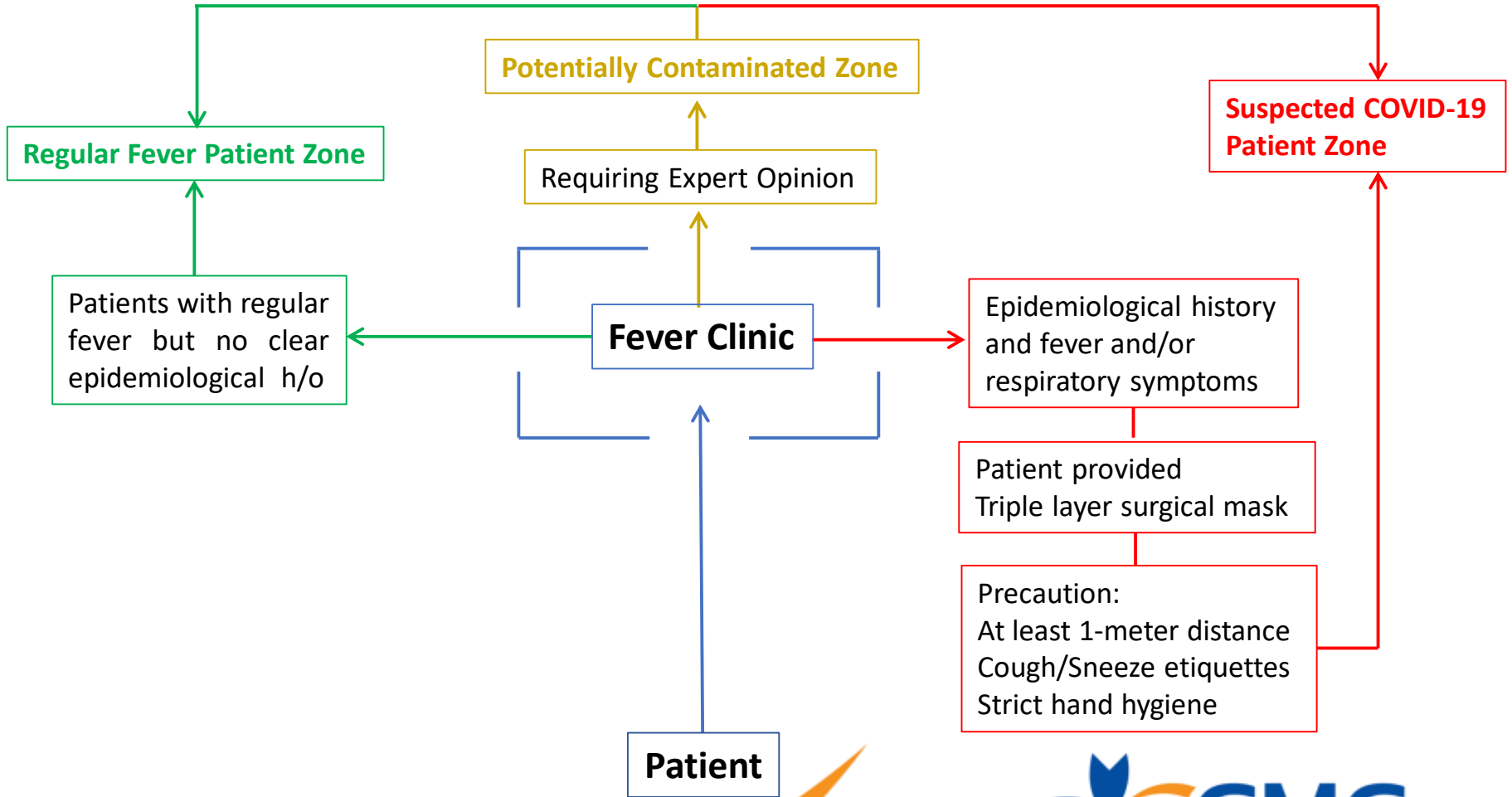
### Zone Arrangement

- Separate Examination Room
- Laboratory
- Portable X-ray
- Observation room
- ICU and resuscitation room



# Patient Management in Fever Clinic

## Rapid Decision Making





## Screening, Admission and Exclusion:

All healthcare workers: Fully understands the epidemiological and clinical features of COVID-19 and screen patients in accordance with the screening criteria below

RT-PCR to be conducted on all those patients who meet the screening criteria for suspected patients

Patients who do not meet the screening criteria above + do not have a confirmed epidemiological history  
BUT COVID-19  
cannot be ruled out based on their symptoms, especially through imaging, are to be subjected for further evaluation and to obtain a comprehensive diagnosis

Those confirmed cases with a positive RT-PCR result will be admitted and treated based on the severity of their conditions (the general isolation ward or isolated ICU)

# Screening Criteria for Suspected COVID-19 Cases

## Epidemiological History

Within 14 days before onset of disease:

- Travel or residence history in high risk region/country
- History of contact with RT-PCR proven infected patient
- Contact with patients with fever or resp. symptoms in high risk regions/country
- Disease clustering ( $\geq 2$  cases with fever and respiratory symptoms occurring occur at home, school, offices etc)

## Epidemiological History

Patient has fever and/or respiratory symptoms

**Presence of following CT imaging features:**

a. Early: Esp. @ lung periphery  
Multiple patchy shadows and interstitial changes developing into multiple GGOs and infiltrates

b. Late and Severe cases:  
Lung consolidation ad pleural effusion (rare)

**WBC Count:**

Normal or decreased WBC with decreasing lymphocytes over time

YES

1 Epidemiological history  
+  
2 Clinical manifestations

No Epidemiological history  
+  
3 Clinical manifestations

YES

Expert  
Opinion

No Epidemiological history  
+  
1- 2 Clinical manifestations  
+  
Imaging: Not helpful to R/O



## Handbook: Control and Management Protocol for COVID - 19

### Control & Management Protocol for COVID – 19

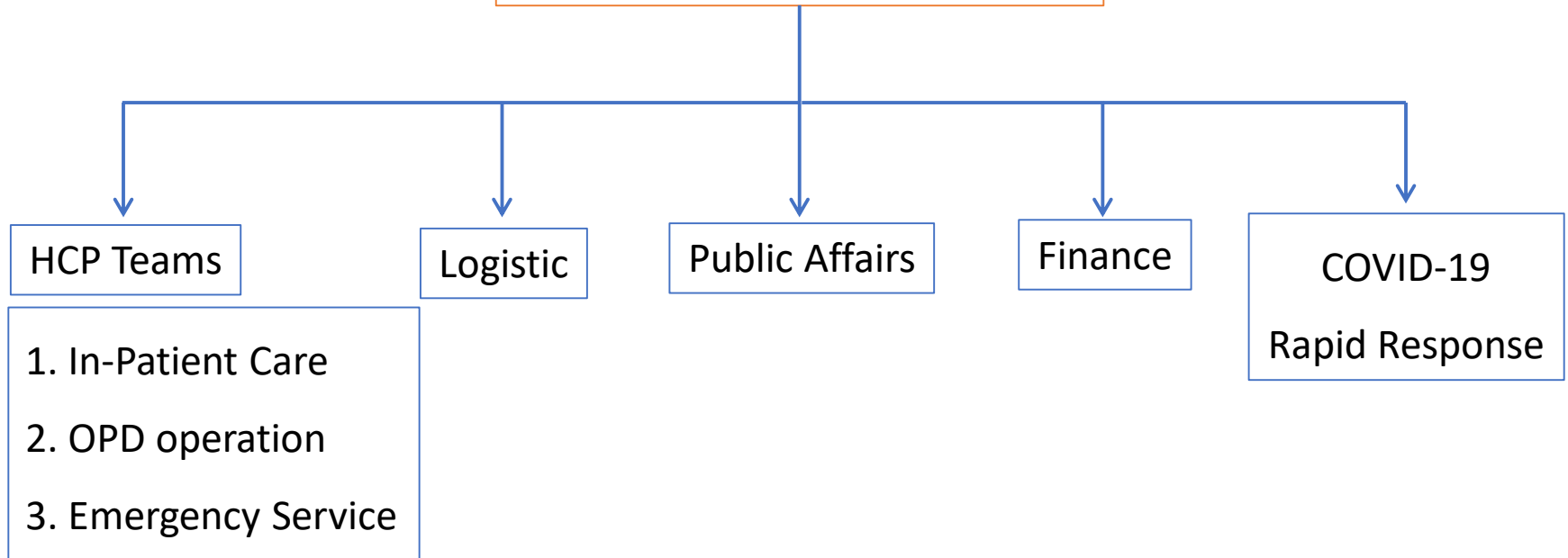


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April 5, 2020



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## COVID – 19 Management Team:

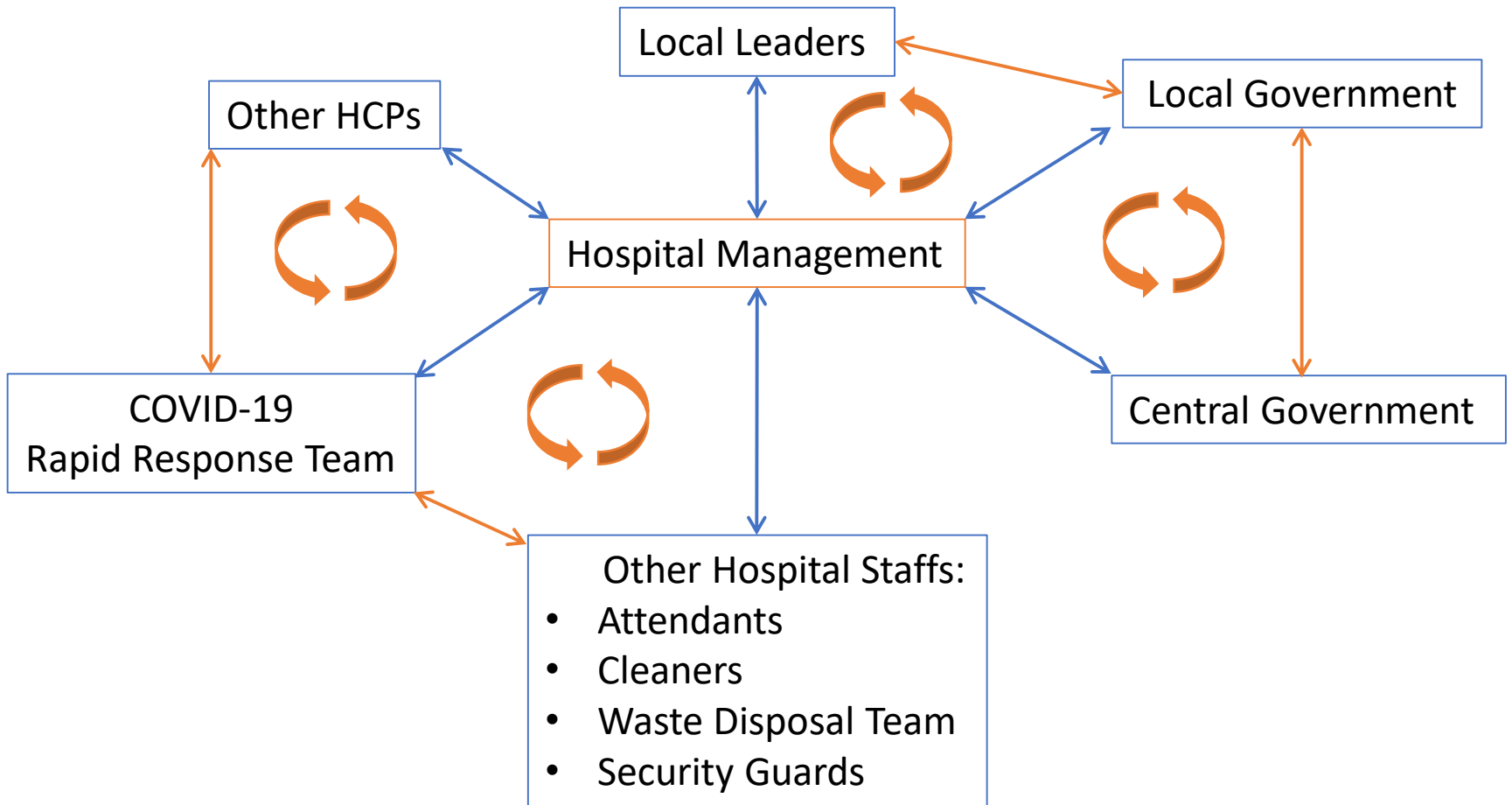


### **Safety of HCPs and other hospital staffs:**

- Detailed information about COVID-19 and preventive measures
- Provision of PPE: HCPs, Cleaners, Hospital Attendants and other staffs as required
- Training on donning and doffing of PPE



## Hospital Management: Strategy





Thank You