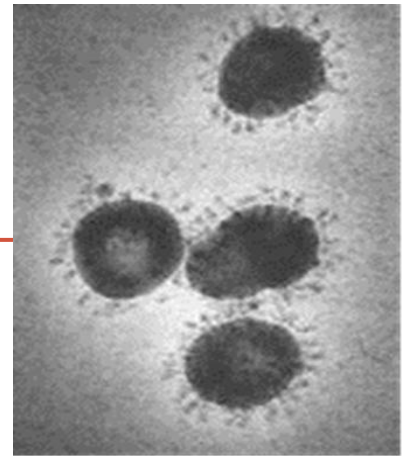


# SEVERE RESPIRATORY DISEASE ASSOCIATED WITH NOVEL CORONAVIRUS

---



## A quick recap on Infection Control Measures

# Early detection and Surveillance

## 終結流言

P Y LEUNG Dr, CE

Sent: 28/02/2013 (週四) 10:09

To: **Staff - Hospital Authority**

我們的抗疫理念，就是「早通報、早隔離、早治療」

Be vigilance on patient:

- Acute respiratory symptoms with fever ( $\geq 38^{\circ}\text{C}$ ) and cough **or** lower respiratory involvement with unexplained cause  
**and**
- Within the last **10 days** before onset of illness
  - With travel history to area with novel coronavirus has recently been reported **or**
  - Close contact with a probable or confirmed case  
<https://ceno.chp.gov.hk/casedef/casedef.pdf>
- Notify CHP for cases fulfilling prevailing reporting criteria  
<http://www.chp.gov.hk/en/notification/13/33.html>

# Isolation of suspected/confirmed case

- Isolate in negative pressure airborne infection isolation room (AIIR)
- Cohort cases with same etiological diagnosis if single rooms are full



遇到下列情況，必須遵守

## 標準防護措施

Standard Precautions

must be taken in the following situations

接觸血液、體液、分泌物、 排泄物、黏液或傷口 必須戴上手套		<b>Wear Gloves</b> when handling blood, body fluids, secretions, excretions, mucus membrane or non-intact skin
若有可能接觸濺出 血液或體液 必須戴上 口罩、眼罩 及穿上保護衣		<b>Wear a Mask, Protective Eyewear and a Gown</b> to protect yourself from splashed blood or body fluids
切勿套回 已使用的針咀		<b>No Recapping</b>
小心處理 針咀及利器		<b>Handle Sharps Carefully</b>
接觸血液、體液、 分泌物、排泄物、 黏液、傷口、 或除下手套後 應立即洗手		<b>Perform Hand Hygiene Immediately</b> after taking off gloves or handling blood, body fluids, secretions, excretions, mucus membrane or non-intact skin



# Hand Hygiene



# Personal Protective Equipment (PPE)

## Handling of suspected case at triage station:

- N95 respirator / surgical mask , eyes protection, gown and gloves

## Care suspected / confirmed case:

- N95 respirator, eyes protection, gown and gloves
- Enhance alertness when performing high-risk aerosol-generating, e.g. endotracheal intubation, CPR, open suction etc.

[http://www.chp.gov.hk/files/pdf/ic\\_matrix.pdf](http://www.chp.gov.hk/files/pdf/ic_matrix.pdf)

# Specimen collection



+

PPE

## Transport of patient

- Patient : Wear surgical mask if no contraindication
- Staff: Put on PPE

## Environmental decontamination

- At least once daily with hypochlorite solution (1:49 1,000ppm)
- Terminal disinfection upon patient discharge

## Decontamination of health care equipment

- Dedicate individual equipment
- Disinfect shared equipment before use on the next patient
- Use bedpan washer for disinfection of bedpans and urinals

## Linen Handling

- Pack on site and avoid shaking.
- Send to laundry as soon as possible.

## Waste Management

- All waste from suspected or confirmed novel coronavirus patients are classified as **clinical waste (red bag)**
- Staff removing wastes should wear appropriate PPE.



## Administration support

- Ensure adequate resources, issue formal instructions for visitors and patients and post appropriate signage
- Monitor staff sickness
- Advise staff to report sick for respiratory symptoms or pneumonia to supervisor



## Key Elements on Prevention and Control of Severe Respiratory Disease Associated With Novel Coronavirus in Healthcare Settings

### Early Detection and Surveillance

- In view of the emergence of novel coronavirus and the severity of illness, special attention to travel history and relevant epidemiological links in patients with respiratory symptoms and fever is essential.
- Please notify CHP for cases fulfilling prevailing reporting criteria:  
<https://ceno.chp.gov.hk/casedef/casedef.pdf>
- Notification form:  
<http://www.chp.gov.hk/en/notification/13/33.html>

### Handling of suspected case at triage station

- Exercise standard, contact and airborne precautions with appropriate PPE included N95/surgical mask, eye protection, gown and gloves.

### Isolation of patients

- Isolate suspect/confirmed patient in a negative pressure airborne infection isolation room. Cohort patients with the same etiological diagnosis if single rooms are full.

### Hand hygiene

- Perform hand hygiene with alcohol-based handrub. Wash hands with soap and water if hands are visibly soiled.

### Personal protective equipment (PPE)

- Wear N95 respirator, eye protection, gown and gloves when managing patients.
- Vigilance on hand hygiene and proper donning/removing of PPE is essential.
- Special attention should be drawn when performing high-risk aerosol-generating procedures. Please refer:  
[http://www.chp.gov.hk/files/pdf/ic\\_matrix.pdf](http://www.chp.gov.hk/files/pdf/ic_matrix.pdf)

### Specimen collection

- Exercise standard, contact and airborne precautions for patients under isolation.

### Transport of patient

- Patient should wear a surgical mask and attendants should practice standard, contact and airborne precautions.

### Environmental decontamination

- Perform environmental cleaning at least once daily and terminal disinfection upon patient discharge.

### Decontamination of health care equipment

- Dedicate individual equipment.
- Disinfect shared equipment before use on the next patient.
- Use bedpan washer for disinfection of bedpans and urinals.

### Linen and laundry

- Pack on site and avoid shaking.
- Send to laundry as soon as possible.

### Waste management

- All wastes arising from the patient care should be considered as clinical waste using the red bags.
- Staff removing wastes should wear appropriate PPE.

### Administration support

- Management should ensure adequate resources, issue formal instructions for visitors and patients, and post appropriate signage.
- Monitor staff illness.
- Advise staff to report sick if respiratory symptoms or pneumonia to supervisor.

## 新型冠狀病毒致嚴重呼吸系統病—醫療環境的感染控制概要

### 及早檢測和監測

- 鑑於新型冠狀病毒的出現及其嚴重性，如病人出現急性呼吸道病徵和發燒，應多加留意外遊紀錄及有相關的流行病學聯繫。
- 根據呈報準則，如有任何懷疑個案，必須呈報衛生防護中心。  
呈報準則：  
<https://ceno.chp.gov.hk/casedef/casedef.pdf>
- 呈報表格請參閱：  
<http://www.chp.gov.hk/en/notification/13/33.html>

### 於分流站處理的疑似病例

- 應施行標準、接觸和空氣傳播防護措施，並穿戴適當的個人防護裝置包括 N95 呼吸器/外科口罩、護目裝置、保護衣和手套。

### 病人隔離

- 單獨隔離病人在負壓房間內。當沒有可作單獨隔離的房間時，群集相同病因的患者在同一區域內。

### 手部衛生

- 應使用酒精搓手液潔手。如雙手有可見污漬，應用視液及清水潔手。

### 個人防護裝備

- 照料病人時，應戴上 N95 呼吸器、護目裝置，並穿上保護衣和手套。
- 個人防護裝備的穿著與卸程序必須正確，亦應嚴格遵從手部衛生。
- 進行霧化醫護程序時，應多加留意。請參閱：  
[http://www.chp.gov.hk/files/pdf/chinese\\_ic\\_matrix.pdf](http://www.chp.gov.hk/files/pdf/chinese_ic_matrix.pdf)

### 樣本收集

- 如病人已被隔離，應施行標準、接觸和空氣傳播防護措施。

### 病人運送

- 病人應佩戴外科口罩，員工亦應施行標準、接觸和空氣傳播防護措施。

### 環境清潔

- 每天應進行最少一次環境清潔。如患者出院，需進行終期消毒。

### 醫療儀器清潔

- 應提供患者專用儀器。
- 醫療儀器應進行清潔消毒才可再次使用。
- 應使用洗便盆機消毒便盆和便壺。

### 床單被服和洗衣房

- 應立即放入污衣袋並包紮妥當，亦應避免晃動。
- 盡快送往洗衣房。

### 廢物處置

- 所有護理病人而產生的廢物均為醫療廢物，應使用紅膠袋。
- 棄置醫療廢物時，員工應穿上適當的個人保護裝置。

### 行政支援

- 管理部門應確保資源充足。為探訪者和患者發出相關指引以及張貼適當的標誌。
- 監控員工的患病情況。
- 員工若有呼吸道或肺炎症狀，應盡快向主管報告。

- Home
- About Us
- Scientific Advisory Structure
- Risk Communication Advisory Group
- Health Topics
- Statistics
- Recommendations
- Publications
- Infection Control Corner
- Media Room
- Training and Events
- e-Resources
- Other Languages
- Related Links
- Contact Us

[Home](#) > [Feature topics](#)

5 October 2012

## Health Professionals

Printer friendly

[Guidelines on MINIMAL Personal Protective Equipment Requirements for Severe Respiratory Disease Associated with Novel Coronavirus](#)

[Recommended PPE for routine patient care and performing aerosol-generating procedures\(a\) in hospitals/clinics for suspected or confirmed novel coronavirus](#)

[Interim Recommendations on Infection Control for Novel Coronavirus](#)

[Key Elements on Prevention and Control of Severe Respiratory Disease Associated With Novel Coronavirus in Healthcare Settings](#)

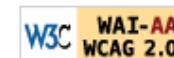
[Top](#)



The Centre for Health Protection is a professional arm of the Department of Health for disease prevention and control

2012 © | [Important Notices](#) | [Privacy Policy](#)

Last revision date: 2012/10/05



相關連結

# For reference

Organizations	Links
Hong Kong Training Portal on Infection Control and Infectious Disease	Internet <a href="http://icidportal.ha.org.hk/sites/en/webpages/Novel_Coronavirus.aspx?PageView=Shared">http://icidportal.ha.org.hk/sites/en/webpages/Novel_Coronavirus.aspx?PageView=Shared</a>  Intranet <a href="http://icidportal.home/sites/en/webpages/Novel%20Coronavirus.aspx">http://icidportal.home/sites/en/webpages/Novel%20Coronavirus.aspx</a>
Centre for Health Protection	<a href="http://www.chp.gov.hk">http://www.chp.gov.hk</a>
Hospital Authority	<a href="http://ha.home">http://ha.home</a>

For colleagues of private hospitals

# Patient triage and segregation of high risk patients at OPC and AED

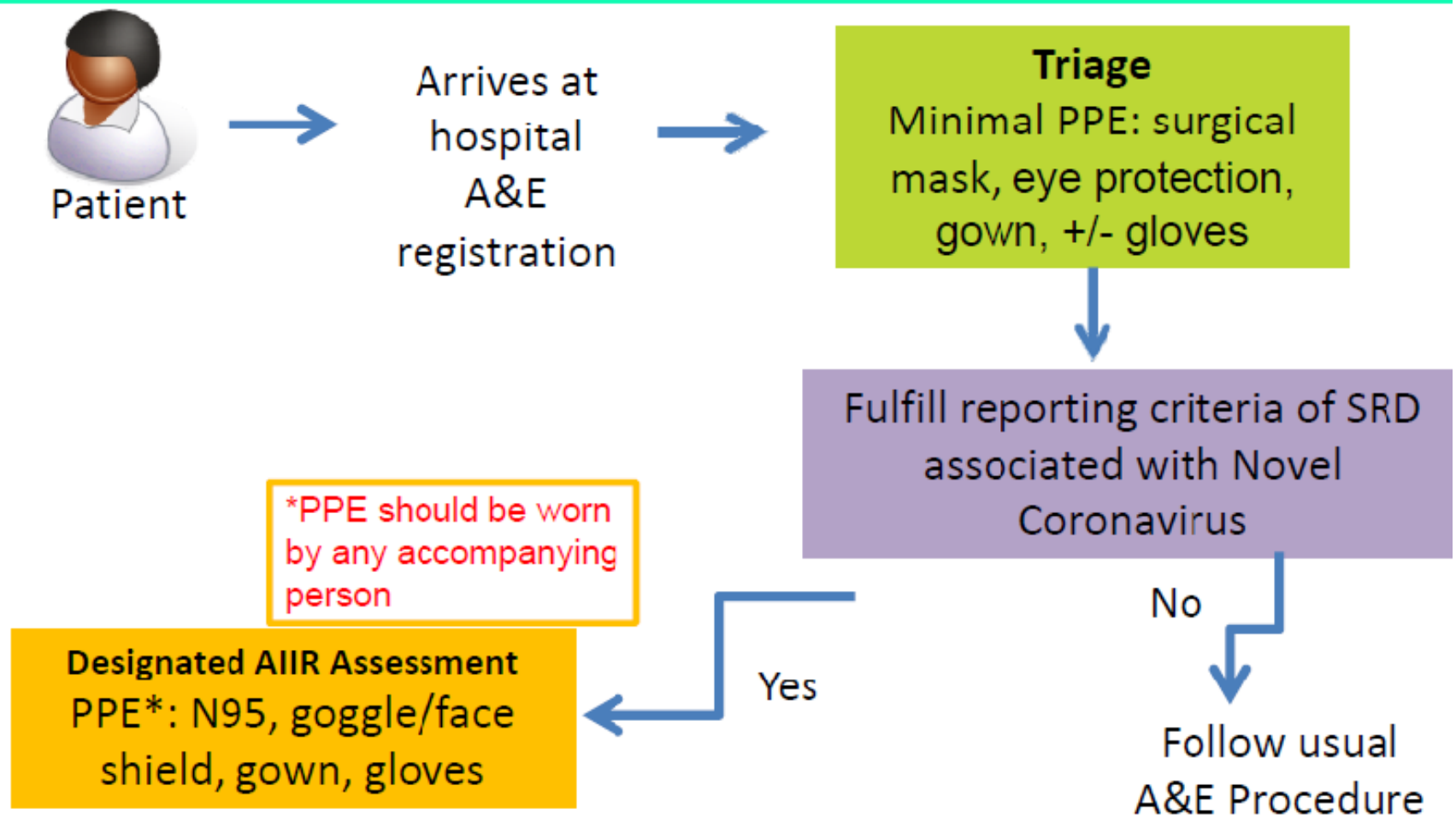
High-risk patients defined as fulfilling the FTOCC criteria – Fever, Travel<sup>#</sup>, Occupational exposure, Contact history, and Clustering phenomenon

Triage and segregate high risk patients in separate waiting areas/consultation rooms and procedure areas as far as feasible, with following control measures:

- Physical separation
- Optimize air exchange by engineering control or local exhaust fan
- Surgical mask for all segregated patients
- Allow minimum number of accompanying person
- Minimize unnecessary patient movement

*Courtesy of CICO Office, HA*

# Flow for A&E Triage



*Courtesy of CICO Office, HA*



# As a separate category under Notifiable Disease (Cap 599)

## 傳染病通報：

- effective on 28 September 2012

1. For suspect / confirmed novel coronavirus infected patient, place in **airborne isolation room**, and adopt **standard, contact, droplet and airborne precaution**

2. **Attending physician notify**

CHP MCO at 71163300  
A/C9179

3. **Send specimens for testing**

表格 2  
預防及控制疾病條例  
(第 599 章)  
非關結核病的傳染病通知書  
受感染人士的詳情

英文姓名：	中文姓名：	年齡 / 性別：	身份證 / 護照號碼：
住址：		電話號碼 (住宅)：	
工作地點 / 就讀學校之名稱及地址：		(手提)：	
最近 / 前居住處：		(辦公室 / 學校 / 其他)：	
被送往的醫院 / 診所 (如有的話)：		醫院 / 急症室編號：	

日期 / 時間於 \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (日期：日/月/年) 填上以下資料 [✓]

<input type="checkbox"/> 急性骨髄炎(小兒癩毒) <input type="checkbox"/> 阿基巴病毒 <input type="checkbox"/> 炭疽 <input type="checkbox"/> 棒狀菌疾 <input type="checkbox"/> 肉毒中毒 <input type="checkbox"/> 水痘 <input type="checkbox"/> 鼻孔其他菌 <input type="checkbox"/> 霍亂 <input type="checkbox"/> 社區型耐甲氧西林金黃葡萄球菌感染 <input type="checkbox"/> 克雅二氏症 <input type="checkbox"/> 登革熱 <input type="checkbox"/> 白喉 <input type="checkbox"/> 腸病毒 71 型感染 <input type="checkbox"/> 食物中毒 現時已知受影響人數：_____	<input type="checkbox"/> 乙型肝炎病毒表面抗原感染(傳染性) <input type="checkbox"/> 滿地病等感染 <input type="checkbox"/> 甲型流行性感冒(H1N1) - 變異株甲 <input type="checkbox"/> 型流行性感冒(H2N2) - 甲型流行 <input type="checkbox"/> 性感冒(H3N2) - 甲型流行性感冒 <input type="checkbox"/> (H7N7) - 甲型流行性感冒(H7N9) <input type="checkbox"/> 日本腦炎 <input type="checkbox"/> 退伍軍人病 <input type="checkbox"/> 麻疹 <input type="checkbox"/> 鉤端螺旋菌病 <input type="checkbox"/> 牛痘病毒病 <input type="checkbox"/> 禮儀 <input type="checkbox"/> 麻疹 <input type="checkbox"/> 猴類或雙球星感染(疫人性) <input type="checkbox"/> 流行性腮腺炎 <input type="checkbox"/> 鉤端螺旋 <input type="checkbox"/> 鼠疫 <input type="checkbox"/> 鉤端熱 <input type="checkbox"/> 敗血 <input type="checkbox"/> 狂犬病 <input type="checkbox"/> 回歸熱	<input type="checkbox"/> 鼠疫(肺膿腫)及先天性鼠 <input type="checkbox"/> 腺鼠疫 <input type="checkbox"/> 斑疹熱 <input type="checkbox"/> 嚴重急性呼吸系統綜合症 <input type="checkbox"/> 新近列於疾病管制委員會年報 <input type="checkbox"/> 系統病 <input type="checkbox"/> 產志賀菌屬大腸桿菌感染 <input type="checkbox"/> 天花 <input type="checkbox"/> 塔姆森氏感染 <input type="checkbox"/> 破傷風 <input type="checkbox"/> 傷寒 <input type="checkbox"/> 麻疹傳染及其他立克次體 <input type="checkbox"/> 痢 <input type="checkbox"/> 病毒性出血熱 <input type="checkbox"/> 病毒性肝炎 <input type="checkbox"/> 出血性敗血症 <input type="checkbox"/> 百日咳 <input type="checkbox"/> 黃熱病
--	--	--

由下述醫生根據《預防及控制疾病條例》作出通知

(請用正楷填寫姓名) 醫生於 \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ (日期：日/月/年)

# Revision of Laboratory work flow for NCoV infection

Proposed by the HA Laboratory Network on Severe Respiratory Disease associated with Novel Coronavirus - 7th March 2013

Lower (always preferred)

- Sputum
- TA (if intubated)
- BAL (if bronchoscopy)

AND

Upper:

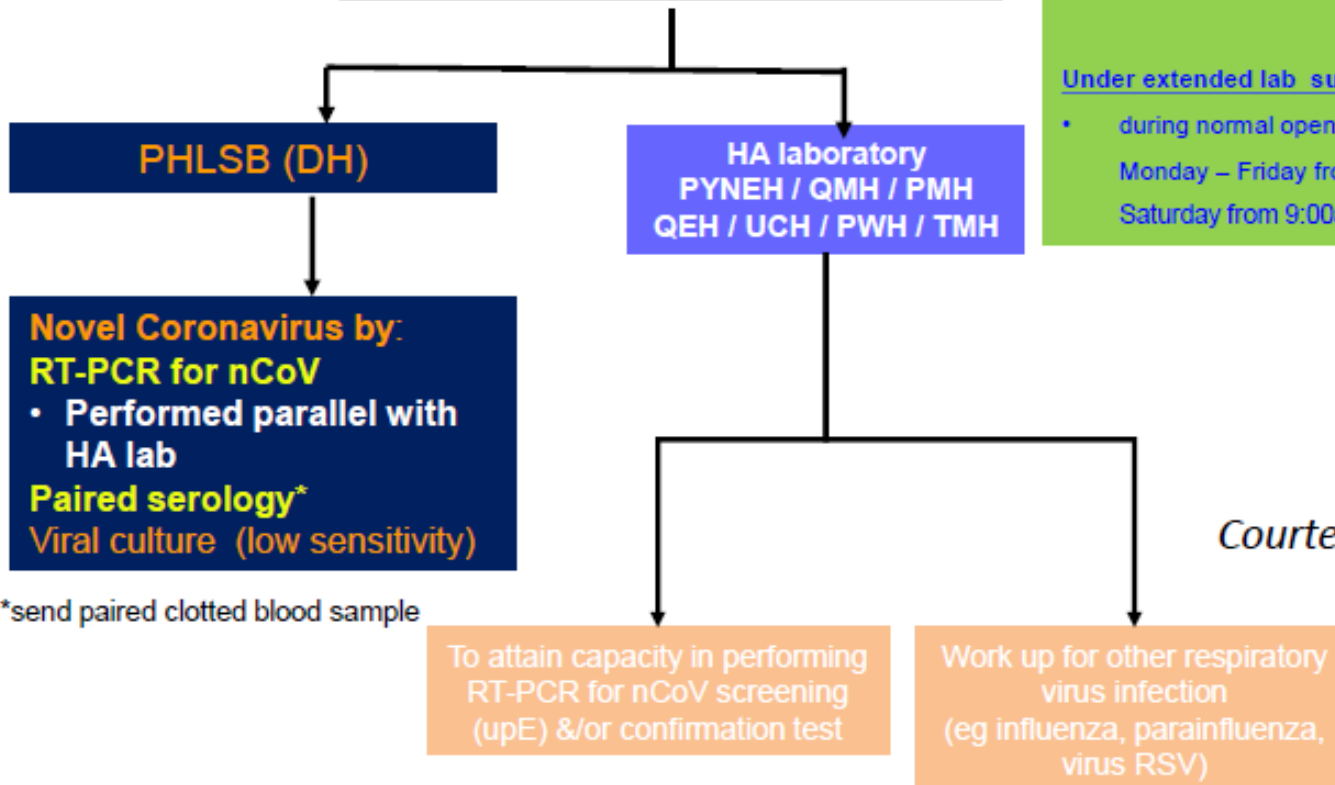
- NPFS, or NPA  
(in Viral TM)

At least 2 sets taken at the same time (one set to PHLC & one set in Local lab)

- Service: 7 days a week, including PH
- Specimen cut off time#: **13:00**
- **# TAT: 1 day**
- Outside office hour: contact on call microbiologists
- DH MCO Pager: 71163300 A/C9179
- Deliver specimen by special courier is preferred

Under extended lab surveillance

- during normal opening hours of PHLC, i.e.  
Monday – Friday from 9:00a.m. – 5:00p.m. and  
Saturday from 9:00a.m. to 1:00p.m.



*Courtesy of CICO Office, HA*

\*send paired clotted blood sample



## For suspected case referring to HA from Port Health/Private hospitals/GPs:

- Cluster coordinator would arrange case admission to isolation ward

**THANK YOU**

---