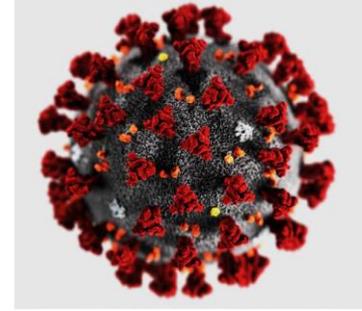




醫院管理局
HOSPITAL
AUTHORITY



Coronavirus Disease 2019 (COVID-19) - Infection Control Measures in HA

Prepared by
Chief Infection Control Officer (CICO) Office

26 February 2020

Emergency Response Level

- On 25 Jan 2020, HA announced the activation of **Emergency Response Level** in public hospitals to tie in with the Government raising the response level from “Serious” to “Emergency” in response to the latest situation of Novel Coronavirus.



因應特區政府應變計劃，醫院管理局現已實施緊急級別措施
所有進入公立醫院人士必須遵守下列措施：

In accordance with the Hong Kong Government's Preparedness Plan, the Hospital Authority has implemented measures for the Emergency Response Level. All people entering public hospitals must follow instructions below:



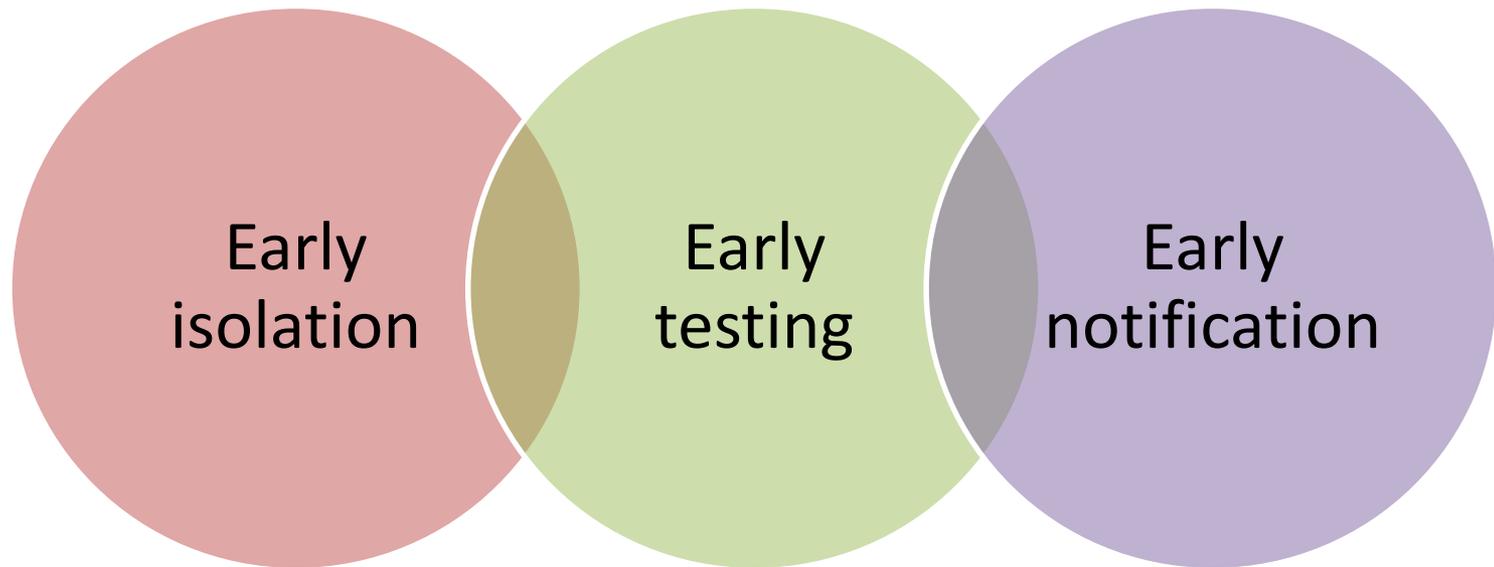
Routes of Transmission

- This evidence demonstrates viral transmission by **droplets and contact with contaminated surfaces of equipment**; it does not support routine airborne transmission.
- Airborne transmission may happen, as has been shown with other viral respiratory diseases, during **aerosol-generating procedures (e.g., tracheal intubation, bronchoscopy)**, thus WHO recommends **airborne precautions** for these procedures.

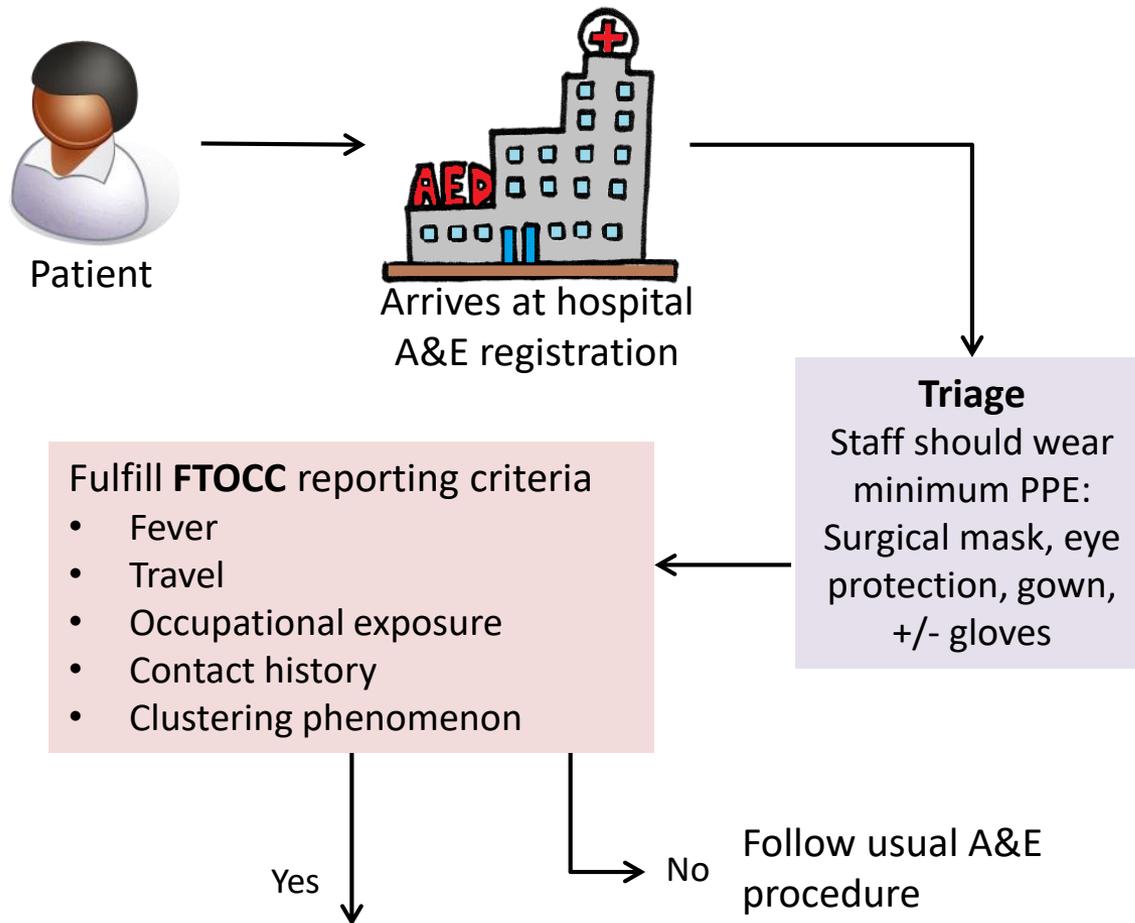
Source:

1. WHO (16 Feb 2020). Q&A on infection prevention and control for health care workers caring for patients with suspected or confirmed 2019-nCoV. <https://www.who.int/news-room/q-a-detail/q-a-on-infection-prevention-and-control-for-health-care-workers-caring-for-patients-with-suspected-or-confirmed-2019-ncov>
2. WHO (23 Feb 2020). Q&A on coronaviruses (COVID-19). <https://www.who.int/news-room/q-a-detail/q-a-coronaviruses>

Bundle Approach



AED Triage – FTOCC Risk Assessment



Designated AIIR Assessment

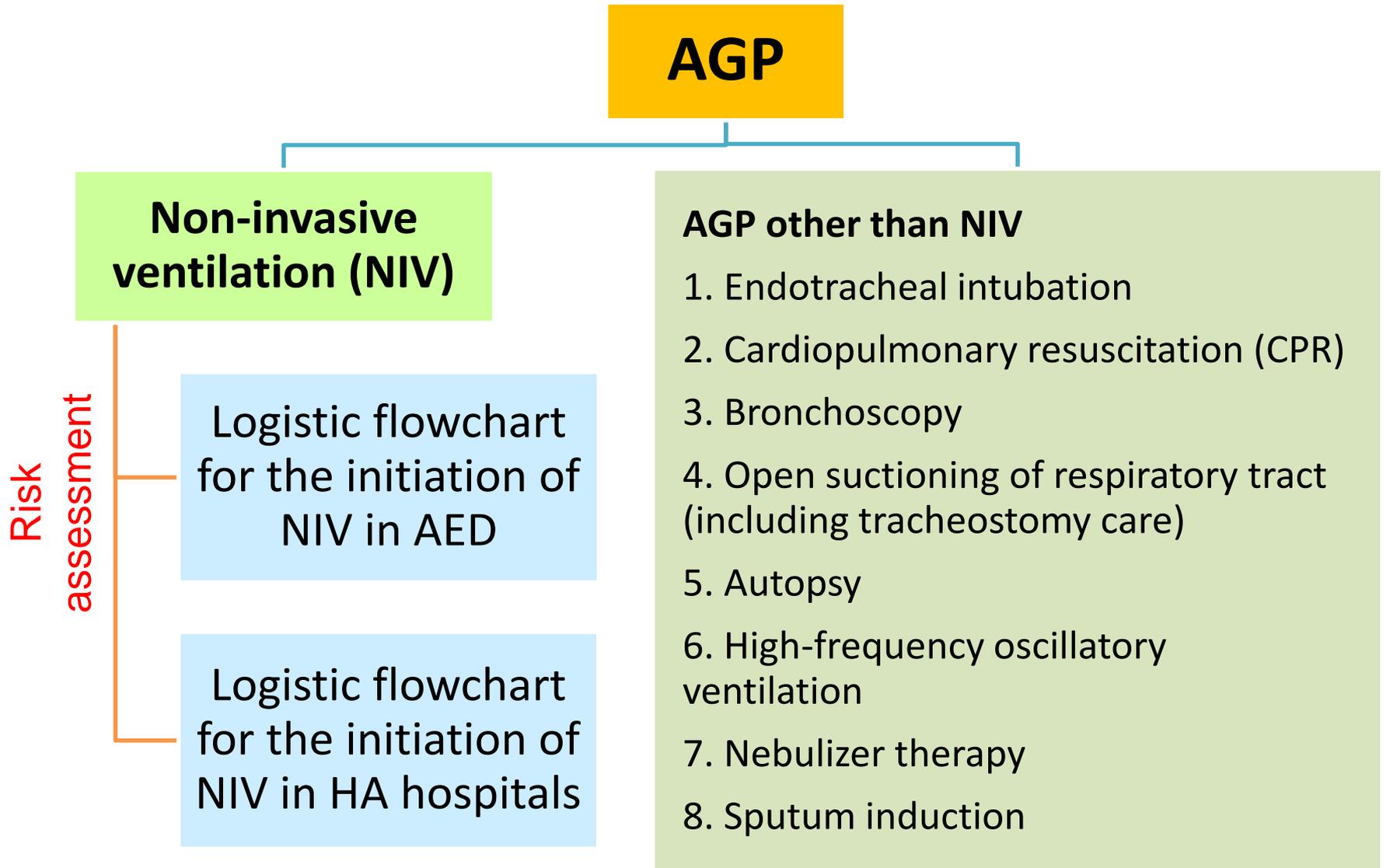
Staff should wear PPE: N95 respirator, goggle / face shield, gown, gloves

Patient Isolation

1. Nurse in **Airborne Infection Isolation Room (AIIR)** (i.e. with negative pressure and at least 12 ACH) en- suite with toilet facility, in an isolation ward setting)
2. Implement **Airborne, Droplet and Contact Precautions** in addition to Standard Precautions
3. PPE: N95 respirator, eye protection (goggles / face shield), isolation gown, gloves, and cap (optional) for aerosol-generating procedures (AGPs) and routine patient care



Aerosol-generating Procedures (AGPs)



Aerosol-generating Procedures (AGPs)

- All AGPs should be conducted under airborne precautions.
- In high risk patient areas, place patient in a negative pressure airborne infection isolation room (AIIR) before performing AGPs.
- In other patient areas, place patient in a well-ventilated area (e.g. at least minimum overall 6 air changes per hour (ACH) or use portable HEPA filter e.g. IQ Air if indicated) before performing AGPs.

Respiratory Protection Program for Healthcare Workers

- Before initial use of N95 respirator, fit test should be performed to select a suitable type, model and size of respirator for individual respirator user. Test results should be maintained according to local hospital protocol.
- Qualitative Fit Test (QLFT) and Quantitative Fit Test (QNFT)
- Maintain Fit Test results record



*每次配戴N95呼吸器後, 要做正壓及負壓密合檢查。

*Perform positive and negative seal check every time after wearing N95 respirator



正壓檢查:

以雙手遮著口罩，然後大力呼氣。如空氣從口罩邊緣溢出，表示配戴不當，必須再次調校頭帶。

負壓檢查:

以雙手遮著口罩，然後大力吸氣。口罩中央會凹陷，如空氣從口罩邊緣進入，表示配戴不當，必須再次調校頭帶。在未將口罩校至適合位置前，切勿進入空氣污染地區。

- **Positive Seal Check:**

Place both hands completely over the respirator and exhale sharply. If air leaks around respirator edges, adjust the straps back along the sides of your head. Perform seal check again if an adjustment is made.

- **Negative Seal Check:**

Place both hands completely over the respirator. Inhale sharply and the respirator will collapse slightly. If inward leakage of air is detected, the seal of the respirator is considered unsatisfactory. Reposition it by adjusting the straps. **If you cannot achieve a proper seal, do not enter the contaminated area.**

Patient Care Equipment

1. Handle used/soiled patient-care equipment carefully to prevent skin and mucous membrane exposures, contamination of clothing, and transfer of microorganisms to other patients and environment
2. Use disposable items when those items cannot be cleaned or disinfected properly
3. Designate non-critical patient care equipment to the patients. If sharing is unavoidable, clean and disinfect with sodium hypochlorite solution 1,000 ppm after each patient use
4. Respiratory therapy equipment require high-level disinfection. Central reprocessing is preferred based on local hospital policy. Well-packed contaminated items before transfer to prevent environmental contamination

Environmental Control

- 1 Decontaminate the environment regularly and immediately when becomes visibly soiled
- 2 Decontaminate patient environment, **especially high-touch areas**, at least once daily in general clinical areas
- 3 Clean and disinfect with sodium hypochlorite solution **1,000 ppm twice daily** in high risk areas with suspected and confirmed patients
- 4 Perform terminal disinfection upon each patient discharge
- 5 Strengthen cleaning schedule as advised by HICT

Linen Handling

1. All linen should be classified as **infected linen**. Linen bag should be secured with “infected linen” tag with information of the origin.
2. **Avoid sorting** linens in patient-care areas.
3. Place linen into **water soluble bag**, then a **laundry bag** with minimal manipulation or agitation to avoid contamination of air, surfaces and persons.



Waste Management

- All wastes from suspected or confirmed patients are classified as **clinical waste**

Follow HA Operation Circular No. 14/2015 Implementation of Clinical Waste Management Plan (CWMP) for proper handling and disposal of clinical wastes



- Use bedpan washer to clean and thermal disinfect the urinals and bedpans
- If bedpan washer is not available, please consider to use the **liner bag**. After use, the contents are to be solidified with high-absorbency gel and then discarded as **clinical waste**.



Example:
Bedpan Liner

Cleaning of Spillage of blood, body fluids, or other potentially infectious materials

- 1 Clean the visible soils with disposable absorbent material and discard it into the appropriate waste bag
- 2 Mop the area with a cloth or paper towels wetted with [sodium hypochlorite solution 10,000 ppm](#), leave for 10 minutes
- 3 Then rinse with water and allow the area to air dry
- 4 70% alcohol can be used in metal surface if household bleach is contraindicated

Handling of Dead Body

1. Handling and disposal of dead body according to **Cat. 2**
2. **Full PPE i.e. N95 respirator, eye protection (goggles or face shield), fluid resistant gown, disposable gloves**
3. **The dead body should be first placed in a robust and leak-proof transparent plastic bag of not less than 150 µm thick, which should be zippered closed. Pins are NOT to be used. The bagged body should be either wrapped with a mortuary sheet or placed in an opaque body bag.**
4. **The outside of the body bag should be wiped with 1 in 4 diluted household bleach (mixing 1 part of 5.25% bleach with 4 parts of water) and allow to air dry.**
5. Use **YELLOW** label

	Danger of Infection 小心傳染			Category 類別 2
	In handling dead bodies, Standard Precautions are required. 處理屍體時需要採取標準預防措施。 In addition, the following precautions are also required: 此外，下列附加的預防措施亦必須採納：			
	Bagging 入屍袋	Viewing in funeral parlour 殯儀館內瞻仰遺容	Embalming 防腐處理	Hygienic preparation in funeral parlour 殯儀館內裝身及化妝
Must 必須	Allowed 可以	Not allowed 不可以	Allowed with disposable gloves, apron and surgical mask 可以，但必須戴上用後即棄的手套、圍裙和外科口罩	

Precautions for Handling and Disposal of Dead Bodies, 10th edition.

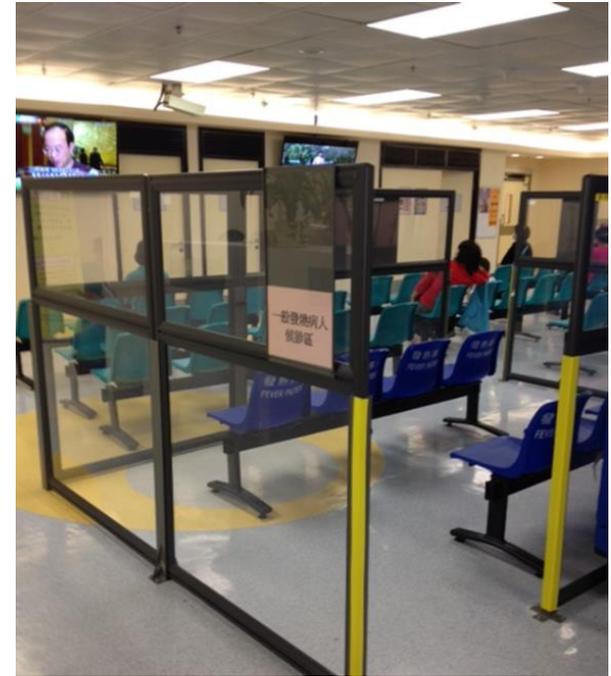
https://www.chp.gov.hk/files/pdf/grp-guideline-hp-ic-precautions_for_handling_and_disposal_of_dead_bodies_en.pdf

Patient Transport

- 1 Limit patient transport to essential purpose only
- 2 Wear appropriate PPE when handling patients
- 3 Provide surgical mask to patients during transportation if not contraindicated
- 4 Inform the receiving ward/ parties before patient transport to facilitate appropriate arrangement.
- 5 Inform the administration to prepare the designated route for transport. The involved area should be disinfected afterwards.
- 6 Disinfect transport vehicles after use

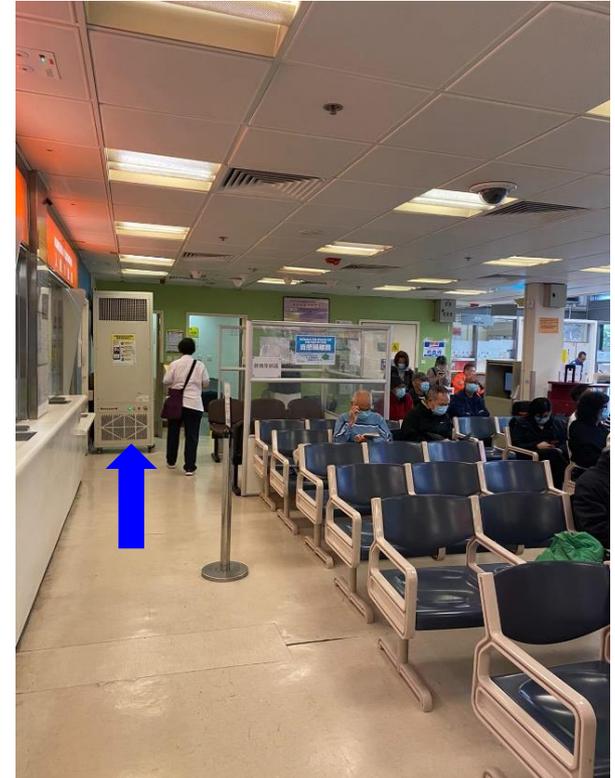
Enhanced Measures

- Universal masking in ALL HA hospitals and clinics
- ILI Segregation Areas at AEDs
- Full personal protective equipment (PPE) i.e. N95 respirator, goggles / face shield, **isolation gown** & disposable gloves for aerosol-generating procedures (AGPs).



Enhanced Measures

- **Enhanced ventilation at A&E, GOPC & SOPC waiting areas**
 - Completed the widest opening of the fresh air dampers in the air handling equipment in the waiting areas of AEDs, GOPCs and SOPCs to achieve higher fresh air rate with improved air dilution; and
 - Completed wheeling in mobile HEPA units to augment the total air change rates in A&E waiting areas where necessary.



Example:
HEPA unit is placed at QEH AED

Enhanced Measures

➤ **Isolation facilities utilization**

- ~1400 airborne infection isolation (AIIR) beds available
- Daily monitoring of utilization
- Re-designate the use to meet surge admission if necessary

➤ **PPE stockpile**

- Daily monitoring of usage

➤ **Alcohol-based hand rub (ABHR)**

➤ **ECMO machine utilization**

- ECMO referral network
- Daily monitoring of usage

Enhanced Measures

- Visiting to wards
 - Temporarily **SUSPENDED**
- Volunteer service
 - Temporarily **SUSPENDED**
- Clinical attachment (including research activities)
 - Temporarily **SUSPENDED**

Staff Early Sickness Alert System (SESAS)

For early detection and control of potentially communicable infectious diseases / outbreaks

Staff Early Sickness Alert System (SESAS) 職員初期病徵預警系統

醫管局員工病徵速報
HA Staff Sickness Reporting

如出現以下病徵，請通知你的上司以紀錄在**職員初期病徵預警系統**。
If you have the following symptoms, please inform your supervisor to record in **Staff Early Sickness Alert System (SESAS)**.

發熱 Fever
發冷 Chills
肌肉疼痛 Myalgia
咽喉疼痛 Sore Throat
肺炎 Pneumonia
嘔吐 Vomiting
流涕 Running Nose
咳嗽 Cough
腹瀉 Diarrhoea

詳情請參閱內聯網：
Please visit Intranet for details: <http://sesas.home/>

如有疑問，請盡快聯絡醫院感染控制小組或總感染控制主任辦公室。
For any enquiries, please contact Hospital Infection Control Team or CICO office.

User Login(使用者登入)

Logon Name(登入名稱) :

Password(密碼) :

Domain Name(網域名稱) : CORP

Save my "NT Domain" and "User Name" for next login
儲存我的「網域」和「使用者名稱」作下次之用

General enquiries (一般查詢) : [Infection Control Team \(感染小組\)](#)
[Email to HAHO-IR](#) | [Other Requests\(其他申請事項\)](#)

[User Manual/使用者手冊](#) [User Guidelines/使用者守則](#) [NEWS](#)

If you have any query please contact (IT Call Center) 2515-2653 OR input your query by clicking following link (Business Support Desk):
如有閣下有任何查詢，請致電 (IT Call Center) 2515-2653 或 按以下連結(Business Support Desk) 輸入查詢問題：
[Business Support Desk - http://www.hkhs.gov.hk/bsd/hotline_login.asp](http://www.hkhs.gov.hk/bsd/hotline_login.asp)

News 最新消息 NEWS

HKID is replaced by Employee Number during sickness reporting. In the interest of personal data privacy, HKID is no longer required for reporting sickness for colleagues not on the list of "MyTeam". For non-HA staff and in case the Employee Number is not available, the Employee Number field can be left blank and the system will generate a reference number for record purpose.
在報病過程中，「職員號碼」已取代了「香港身份證號碼」。為了保障個人資料私隱，為其他人(非員工)報病時，已不再需

Communication

Risk communications

➤ Internal:

- Designated webpage
- Communication kit
- Staff forums
- HASLink Express
- HA Touch
- HR Apps
- Coronavirus disease 2019 (COVID-19) Bulletin

➤ External:

- Daily press release on no. of reported cases in the past 24 hours
- Facebook

IEC Welcome to IEC webpage
Infectious Disease Control

Severe Respiratory Disease associated with a Novel Infectious Agent

緊急
EMERGENCY

Case definition (updated as of 23 Jan 2020) – available at [CHP-CENO website](#)

Reporting criteria
An individual fulfilling both the Clinical Criteria AND Epidemiological Criteria should be reported to CHP for further investigation.

Clinical Criteria	AND	Epidemiological criteria
Patient presented with fever OR acute respiratory illness, OR (with pneumonia)		Either one of the following conditions within 14 days before onset of symptoms: 1. With travel history to Hubei Province (irrespective of any exposure to a wet market or seafood market); OR 2. Visited a medical hospital in Mainland China; OR 3. Had close contact with a confirmed case of the novel coronavirus while that patient was symptomatic.

新聞稿 PRESS RELEASE

Attention News Editors:

As at noon today (25 January), public hospitals had reported to the Department of Health (DH) the admission of 65 patients (30 male and 35 female, aged eight months to 88) in the past 24 hours who met the reporting criteria of severe respiratory disease associated with a novel infectious agent. Specimens of the patients concerned have been sent to the DH for testing. 108 patients are still under isolation. 104 patients are in stable condition. One male patient in North District Hospital is in serious condition due to his underlying disease while two male patients in North District Hospital and one male patient in Tuen Mun Hospital are in critical condition due to their underlying diseases.

The HA will maintain close contact with the Centre for Health Protection to monitor the latest developments and to inform the public and healthcare workers on the latest information in a timely manner.

防疫快訊 2020-01-24

我哋深明大家十分關注新冠病毒狀病毒，特別推出防疫快訊，update 大家有關資訊。

繼新近疾病專家傳聞，我哋會維持高透明度，盡快向大家公布所有呈報可疑個案數字，亦會聯同衛生署公布確診個案概況。

而家有兩位同事因未有穿著適當個人防護裝備接觸病人，應接受隔離監察，我哋會密切監察但感情況。另外，有當日當值同事擔心自己可能受到感染，我哋都會安排隔離及測試，以策安全。

每日出誌防疫快訊後，收到同事一啲問題，我哋當然第一時間搜集資料，update 大家！

感染控制
我哋有足夠PPE供應床使用，亦會確保所有同事工作期間可以配帶，我哋亦理解同事上下班需要額外口罩保護自己，減低感染風險。我哋會繼續採購PPE 物資，配合大家需要。我哋亦再提醒大家一定要嚴格依從感染控制措施。

我哋專日已推出**防疫小貼士**，提醒大家場工放工處注意事項。如果大家仍然有擔心，尤其係要負責照顧已確診病人感同事，可要求暫時離醫院留宿。各聯網已準備額外留宿房間，我哋會繼續地方提供更多床位。

感染控制訓練
有同事想參加感染控制訓練。其實部門會舉辦定期加強訓練，大家亦都可以參加HR App**感控資訊**裡到不同醫療程序感個人防護裝備及感染控制須知。

支援熱線提供協助
我哋已撥熱線檢視同事留宿、飲食、交通及工作安排，亦為有需要感同事提供感染控制重溫課程及N95 fit test，即「面型配合測試」。

人力資源部以及業務支援服務部，都分別設立查詢熱線，可以click**感度**達到熱線感資料！

當值安排事宜
同事如果因被列為確診個案感緊密接觸者，而需要往隔離室，但唔需要扣自己感大假，大家放心。

另外，所有懷孕員工都不會安排在高风险地點工作，減低感染風險。

HR App

緊急
EMERGENCY

緊急應變級別 Emergency Response Level

Hospital Authority (HA) has raised the response level from Serious Response Level (S2) to Emergency Response Level (E) to tie in with the Government's raised response level due to novel coronavirus. Please click the following link for more information.

- [Communication Kit](#)
- [Enquiry/Support Hotlines](#)
- [Updates of Reported Cases](#)