QUALITY IMPROVEMENT PROGRAM - PRACTICAL ASPECTS

CONTENT

- Background
- How to identify the MRSA, MDROs patients
- o 2 % CHG bathing
- Environmental hygiene
 - Training
 - Assessment (Fluorescent marker for real time assessment and feedback)



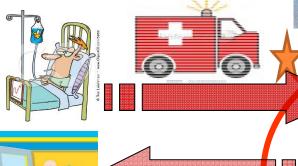
BACKGROUND

- 2011 1Q, MRSA containment pathway study in QEH
- Objectives:
 - To minimize skin shedding of MRSA and bacterial load through 2% CHG bath
 - To minimize soiling of inanimate environments and to prevent cross transmission of MRSA through dedicated use of non-critical equipment and enhancing environmental cleaning of high touched areas.
 - Involved 8 wards
 - o medical admission wards, isolation wards, ICU and surgical
- 2011 4Q, QIP MDROs containment pathway in QEH





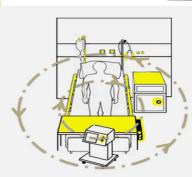




財産性企業者的政務有何重要? - ASA - CAN-ONDERECTION CONTROL OF CON Quality Improvement Programme

> Catering departments, ward kitchen areas and patient food service at ward level







Isolation areas



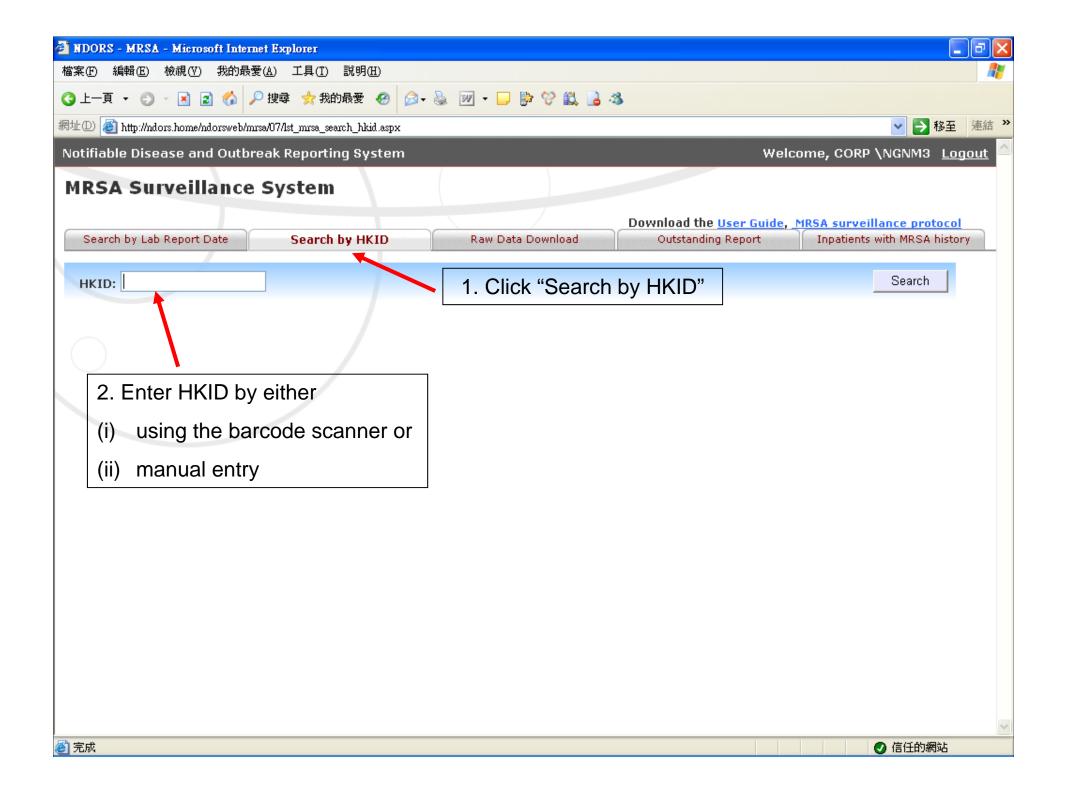
How to identify the MRSA, MDROs patients

MDROS PATIENTS

• Refer from Alert message in CMS, MDRO tagging or new microbiology laboratory results in the current hospitalization

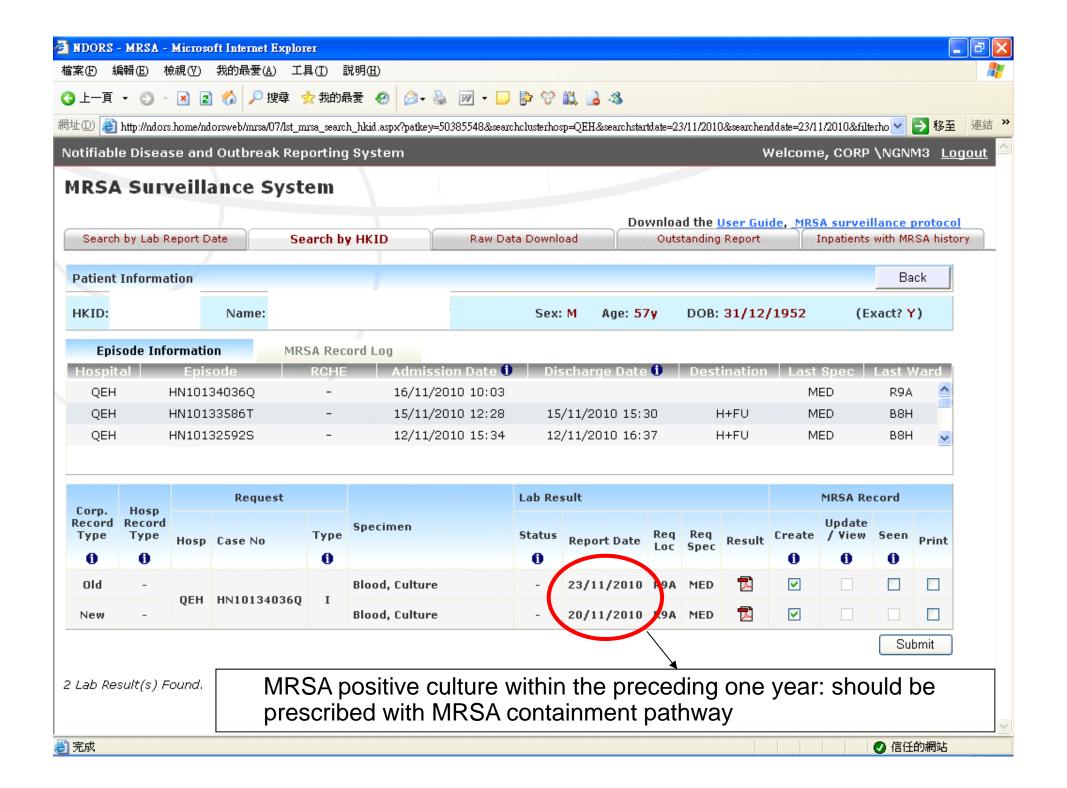
MRSA PATIENTS

- The ward steward checks patient's MRSA status upon admission through MRSA surveillance program
- Nurses are encouraged to check the MRSA status of patients to avoid delay in identification situation when ward steward is not present, e.g. when patient is admitted during night shift



INTERVENTION TARGET

• Any patient with MRSA positive culture within the preceding one year or newly identified as carriers within the current hospitalization should be prescribed with MDROs Containment Pathway



MRSA CONTAINMENT PACKAGE

Assembly graph with racks hanged on bedside tables



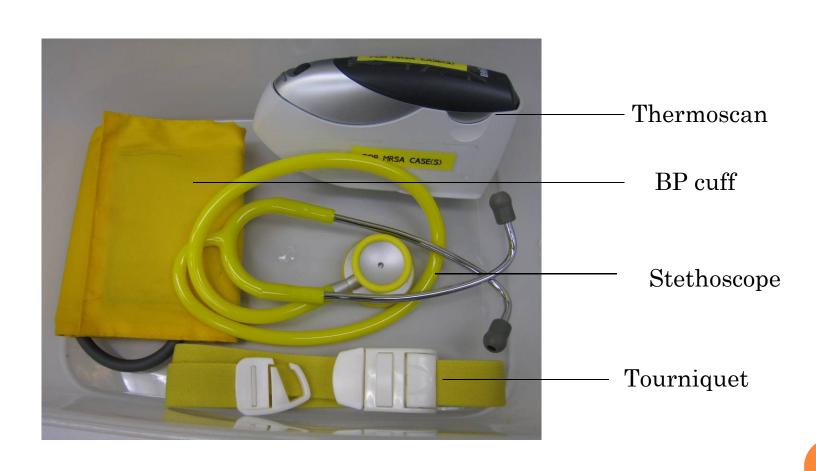




Rack for glove boxes



Color coded non-critical items





2% CHLORHEXIDINE GLUCONATE (CHG) BODY WIPE

- Aims at reducing MDROs skin colonization and skin shedding to the immediate inanimate environments, & health care workers' hands
- Thus decreasing cross transmission and subsequent risk of invasive complication





潔身抗菌劑(Microshield 2)使用指引

(2%葡萄糖酸氯己定)



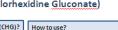
2%葡萄糖酸氢己定是一種水溶 性抗菌劑,能有效地對抗細菌。 使用這抗菌劑能有效減低因酮 藥性細菌而引致的感染

使用方法

- 1.用水沖身
- 2.用抗菌劑清潔身體,清潔——部位時要格外留神
- 3.用水將抗菌劑沖走
- 4.用清潔及乾的毛巾抹身



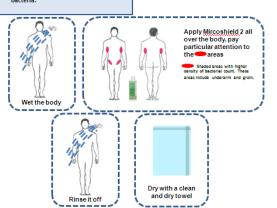
User guide to patient for using Microshield 2 (2% Chlorhexidine Gluconate)



- What is 2% Chlorhexidine Gluconate (CHG)? CHG is a water soluble antiseptic preparation with broad activity against
- What is the benefit of using 2% CHG? · Effective against healthcare-associated infections with multidrug resistance
- 1. Wet the body
- Apply Microshield 2 all over body, pay particular attention to the -areas

\$

- 4. Dry with a clean and dry towel

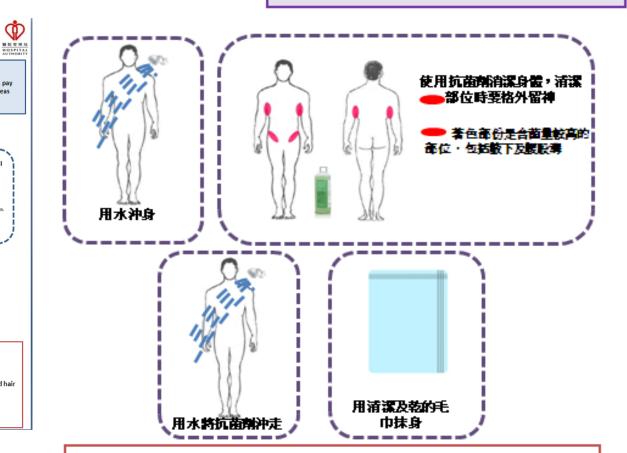


Cautions

•Keep out of children

•Do not apply CHG above neck areas, including eyes, ears, month, nose, face and hair •Report immediately to doctor/ nurse if the below situation occurs

- *Any discomfort or allergic reactions found e.g. rash, itchiness
- *Accidentally splash to eye(s), (immediately rinse with water)
- *Ingestion of the agent



Information Sheet on the Use of 2% Chlorhexidine Gluconate (CHG) Solution for Bed Bathing

(Prepared by CICO office, 7 May 2012)

Disclaimer: The information provided in this information sheet is for reference only. Please follow nursing standards for patient care.

Equipment required for a bed bath

- 2% Chlorhexidine Gluconate antiseptic solution (rinse free)
- Disposable cloths/ wipes

- Disposable gowns and gloves
- Clean clothes
- Waste bag

Procedures for bed bathing a patient

- 1. Prepare the environment and equipment.
- Follow the manufacturer's instructions of use. Prepare appropriate volume of 2% CHG antiseptic. solution. The solution can be used at room temperature. Warming is allowed but the temperature should not exceed 40°C*.
- Perform hand hygiene and wear disposable gloves and gown/ apron.
- 4. Assist the patient to remove clothing. Cover the body e.g. a bath towel or sheet to sustain body temperature when necessary.
- Soak the disposable clothes/ wipes fully with antiseptic solution.
- Rub the areas of the body according to the sequences* shown in Figure 1. No rinsing is required.
- Care should be taken not to wet drains, dressings, and/or intravenous devices.
- 8. Change the disposable clothes/ wipes when visibly soiled, after cleaning armpits, buttock and groin area.
- 9. Remove gloves and perform hand hygiene.
- Wear clean disposable gloves.
- Assist patient to put on clean clothes.
- Remove gloves and gown/ apron, and perform hand hygiene after procedures.
- *The antiseptic agent may denature into other chemical components when excessive heat is applied (> 40°C).
- *The sequences could be modified according to the posture or condition of patient.
- 'Avoid contact with the eyes and any mucosal membranes.



即棄潔身棉紙

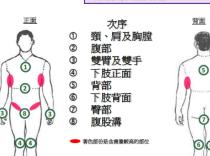
使用抗菌劑潔身可代替日常沐浴



- 1. 護理人員應戴上手套及穿上保護衣 2. 先清潔有明顯污垢的身體部位
- 3. 把抗菌劑調至合適溫度
- 之次序爲院友潔身 凍身次序可因應院友的姿勢或實際情況而有所改變切勿將抗菌劑清凍頸部以上的部位,包括眼、耳、口

(T)

- 完成每一步驟後、清潔 一部位後或從污穢部份 移到乾淨部份時,都應更換即棄潔身棉紙
- 完成潔身後,應除下手套及保護衣
- 推行手部衛生 換上新的手套及保護衣
- 再爲病人換上清潔的衣服



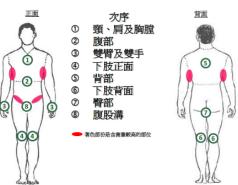






Figure 1 Seguences of cleaning

醫院管理局九龍中聯網

阻截多重抗藥性細菌之傳播途徑

加護病房

住院病人,請貼上附有 HN 號碼之

姓名:

香港身份證號碼:

HN/OP 號碼.:

性別/出生日期.:

部門:

醫院: * QEH/KH/HKBH/HKEH

Hospital Authority

Kowloon Central Cluster

Quality Improvement Program Intensive care unit For hospital admitted patient, ple
Name:
HKID:

HN/ OP No.: Sex/ D.O.B.:

Hospital: * QEH/KH/HKBH/HKB

Department:

Quality improvement program - a	action record with signa

Action	Time	Date	Sign.	Date	Sign.	Date	Sign.	Date	Sign.	Date
2% CHG bath										
Daily										
Apply										
aqueous cream										
<u>Daily</u>										
Change pajama										
<u>Daily</u>										
Environmental										
cleansing										
3 times a day										
Change bed										
linen										
<u>Daily</u>										
Action	Time	Date	Sign.	Date	Sign.	Date	Sign.	Date	Sign.	Date
2% CHG bath										
Daily										

阻截多重抗藥性細菌之傳播途徑一簽署記錄表項 時間 日期 簽署 日期 簽署

 事項
 時間
 日期
 簽署
 日期
 公司
 日期
 日期
 公司
 日期
 <t

Environmental Hygiene

HA standardized Color Coding Scheme & Scope



Bathrooms, washrooms, showers, toilets, basins and bathroom floors



General areas including wards, departments, offices and basins in public areas



Catering departments, ward kitchen areas and patient food service at ward level

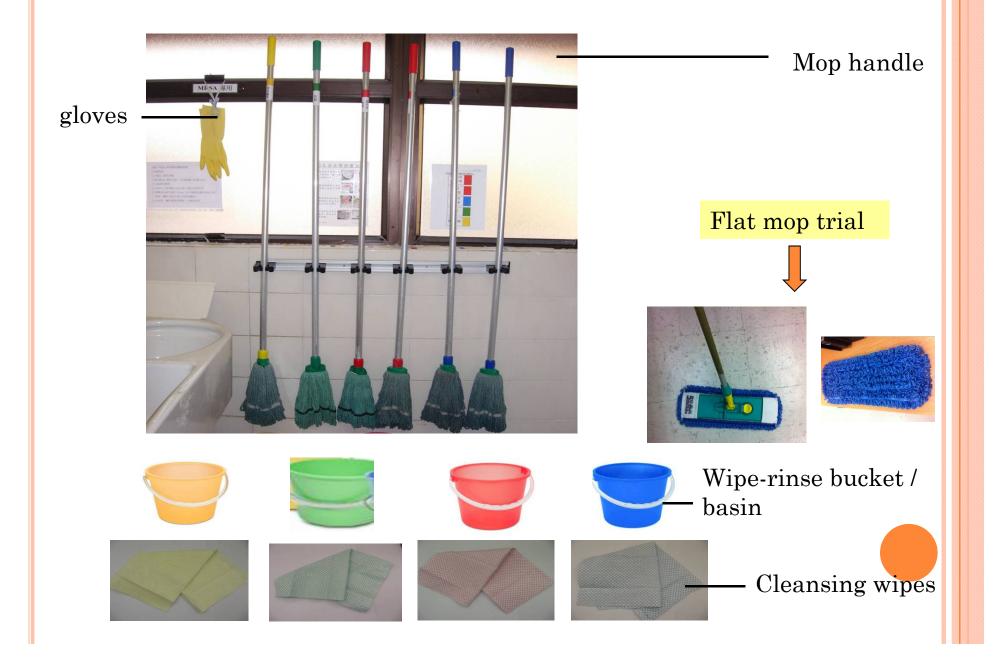


Isolation areas



Disposable

Color coded cleansing equipment



COLOR CODE SCHEME



SAFE CLEAN PROGRAM



- Adopt universal colour
 coding scheme for cleaning
 materials and equipment
- Observe common rules of cleansing principles
- Training in cleaning, combined with auditing and

monitoring



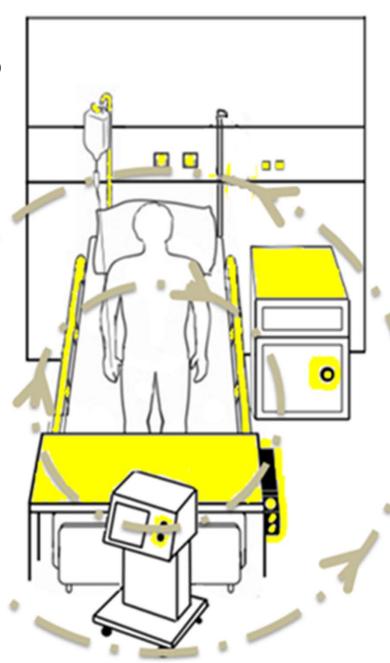
WHAT IS THE ENVIRONMENT IN HEALTHCARE CONTEXT

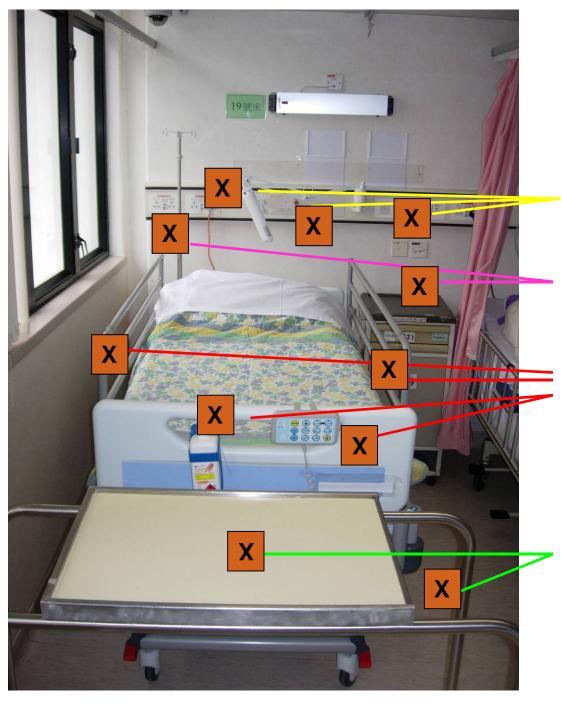
- 1. General environment: floor, wall, ceilings
- 2. Items that have staff / patient hand contacts
- 3. Item that have prolonged patient contact: mattress, pajamas & pillow cover
- 4. Medical devices contact with patient skin (non critical equipment), as such BP cuff

Most importantly, the <u>frequent touch areas</u> / pt use non-critical items demand the most attention and frequent cleaning

COMMON RULES OF CLEANSING PRINCIPLES

- Clean to dirty
 - High to low
 - Outer to inner
 - Non reverse in directions
- High touch areas
- Figure of Eight
- Terminal decontamination
- Cleansing schedule:
 - Once for general environment
 - Twice for MDRO cases





1st cleansing wipe

2nd cleansing wipe

4th cleansing wipe

3rd cleansing wipe





護士站



















病人周邊環境















醫院管理局九龍中聯網

阻截多重抗藥性細菌之傳播途徑

加護病房

住院病人,請貼上附有 HN 號碼之

姓名:

香港身份證號碼:

HN/OP 號碼.:

性別/出生日期.:

部門:

阻截多重抗藥性細菌之傳播途徑一簽署記錄表

醫院: * QEH/KH/HKBH/HKEH

Hospital Authority

Kowloon Central Cluster

Quality Improvement Program
Intensive care unit

For hospital admitted patient, ple Name: HKID: HN/ OP No.: Sex/ D.O.B.: Department:

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Quality improvement program - action record with signa

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3 times a day											
Change bed											_
linen											
Daily											
Action	Time	Date	Sign.	Date	Sign.	Date	Sign.	Date	Sign.	Date	
2% CHG bath											
Daily											

事項 時間 日期 簽署 日期 簽署 日期 簽署 日期 簽署 日期 使用 2%葡萄糖酸 氯己定潔身 <u>每天一次</u> 塗抹潤膚霜 每天一次 更换病人衣服 每天一次 進行環境清潔 每天三次 更換枕袋及床單 每天一次

Terminal Cleansing after Patient Discharge





STAFF TRAINING & EDUCATION





QUALITY ASSURANCE FOR CLEANSING PROCEDURES

- o "visibly clean" is NOT adequate as a measure of proper cleaning
- Audit tools for housekeeping quality valuable
- Provide feedback to ensure housekeeping performance







A CLEAN ENVIRONMENT FOR PATIENT SAFETY, QUALITY SERVICES AND GOOD HOSPITAL IMAGE















TRAIN THE TRAINER FOR EH MONITORING

Environmental Hygiene

2011 Jan to Dec: MRSA containment pathway

- briefing sessions
- one to one demonstration and return demonstration sessions to train the supporting staff

2012 1Q: workshops to Ortho and Surgical department

Due to time constraints, high turnover rate of supporting staff, in order for environmental hygiene compliance to be sustainable in long run

From 2012 2Q onwards: Train the trainer sessions are provided

TRAIN THE TRAINER FOR ENVIRONMENTAL HYGIENE

Contents:

- Color coded scheme
- Environmental hygiene assessment techniques
- 2% CHG bathing

Responsibility of trainer:

- Provide environmental cleaning training to supporting staff
- Perform Environmental hygiene assessment
- Monitor compliance regularly

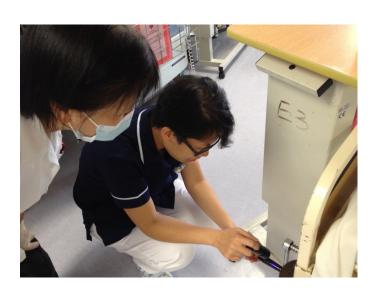
Return demonstration of Environmental hygiene assessment by trainer

TRAIN THE TRAINER









PROBLEMS ENCOUNTERED

- Manpower
 - Use 2 in 1 disinfectants for environmental disinfection
 - Reorganized work by management staff
 - Supply extra manpower for environmental hygiene
- High cleaning staff turnover → frequent training
- Resources limited
- Sustainable for QIP
 - Nominate staff (trainer) to monitor the compliance regularly
 - Empower ward staff to participate
 - Show the data and current feedback for improvement
 - Encourage and appreciate staff







THANK YOU