Performance of Infection Control in Hong Kong

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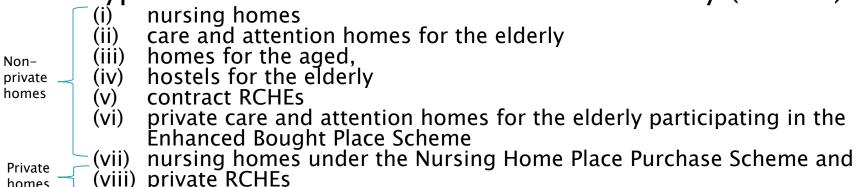
Elderly Health Service, Department of Health

Background

–Residential Care Services for Elderly in Hong Kong

Residential Care Services for Elderly in Hong Kong

Types of residential care homes for elderly (RCHEs)



- Licensing authority
 - Social Welfare Department
- Related legal provision
 - Law of Hong Kong Chapter 459 Residential Care Homes (Elderly Persons) Ordinance (Cap 459)

Infection Control related Regulatory Requirements

- Section 8 (3) (c), Cap 459
 - The Director may refuse to issue a license if it appears to him that such premises do not comply with any requirements relating to, health, sanitation etc. set out in any Code of Practice issued by the Director
- Section 17 Cap 459
 - Appointment of Inspectors (compliance check)
- Section 18, CAP 459A Residential Care Homes (Elderly Persons)
 - Regulation Report suspected infectious disease case
- Code of Practice (COP), Chapter on Infection Control
 - Implement control of infectious diseases in accordance with the Guidelines on Prevention of Communicable Diseases in Residential Care Homes for the Elderly
 - Designate an Infection control officer (ICO)
 - Report suspected outbreak
 - Arrange isolation of person with infectious disease

The Survey

Integrated Assessment for Residential Care Homes for Elderly (RCHEs)

Background

	August	
	, 10. g a. 5 t	Infection control checklist began
	October	Infection control checklist completed
		Issued infection control guidelines – Input from Hospital Authority, Department of Health and Social Welfare Department
N	lovember	Introduction of Infection Control Officer in RCHEs
2003- 2004		Training for Infection Control Officers - Briefing forum - Training workshop - On-site training - Sharing Forums

Background

2005		Evaluation of infection control survey	
		Free vaccination programme for RCHE staff	
		Annual Infection Control Officers Training by CHP	
2007	September	2 nd edition of infection control guidelines	
2009	July	Incorporated with health education needs assessment	
		drug managementfall preventionother health needs	
2015	January •	3 rd edition of infection control guidelines	

Objectives

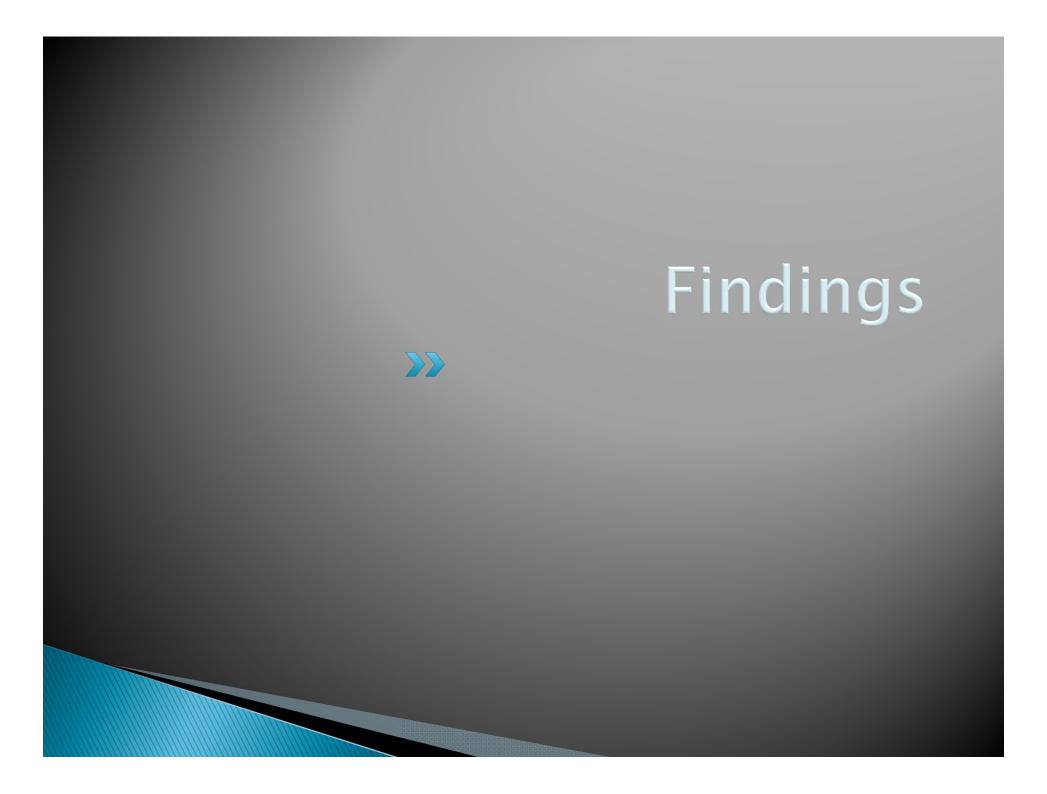
- To collect data for assessment of RCHEs' staff training need
- Rectify irregularities during the course with health advice and skill training
- Information sharing with stakeholder to facilitate planning
 - Infection Control Branch of Centre for Health Protection
 - Hospital Authority
 - Social Welfare Department (the regulatory authority)

Methods

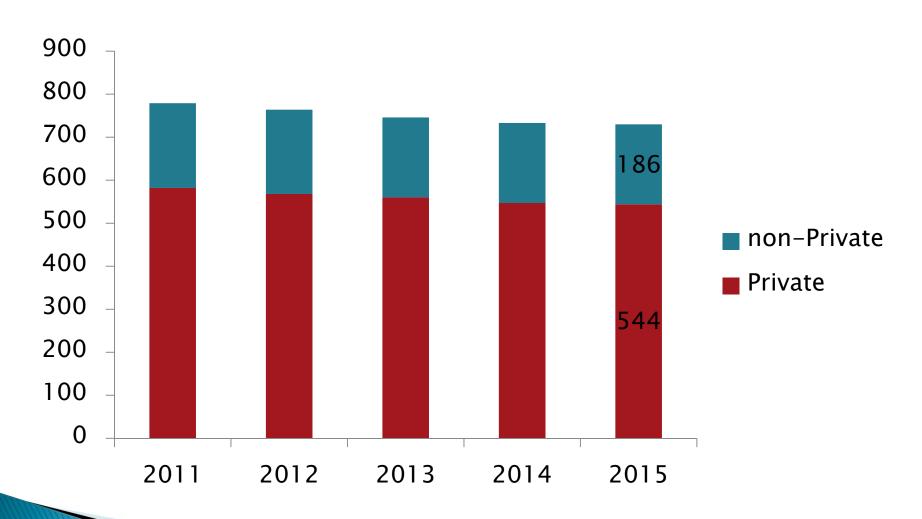
- A cross-sectional survey
- Self-administered questionnaire
 - Residents' profile
 - Manpower
 - Infrastructure
- Inspection and interview
 - Environmental hygiene
 - Hardware and software for infection control, among other areas

Sampling (2015)

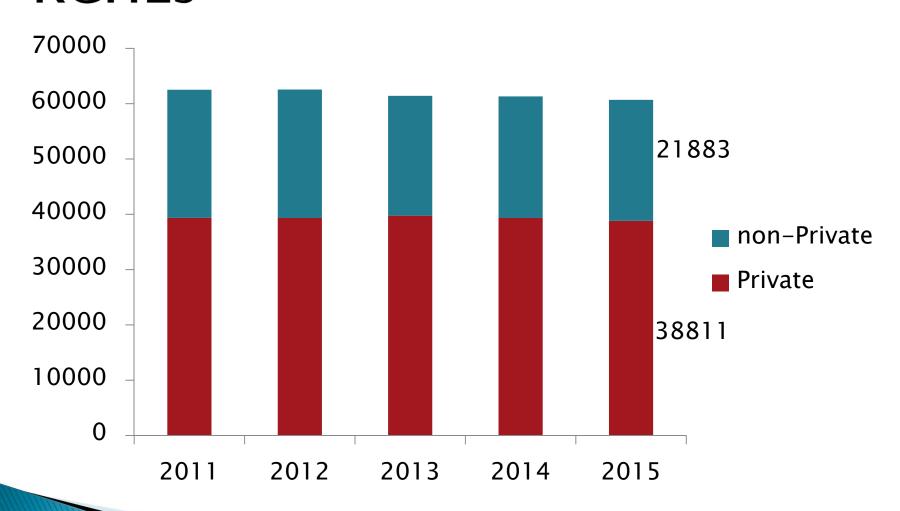
- Target population
 - All RCHEs in Hong Kong according to the updated list keep by Social Welfare Department – 740 (as at June 2015)
- A total of 730 RCHEs were recruited (response rate 98.6%)
 - 3 refused
 - 6 ceased operation before survey
 - 1 closed for renovation
- Completion rate
 - · 100%



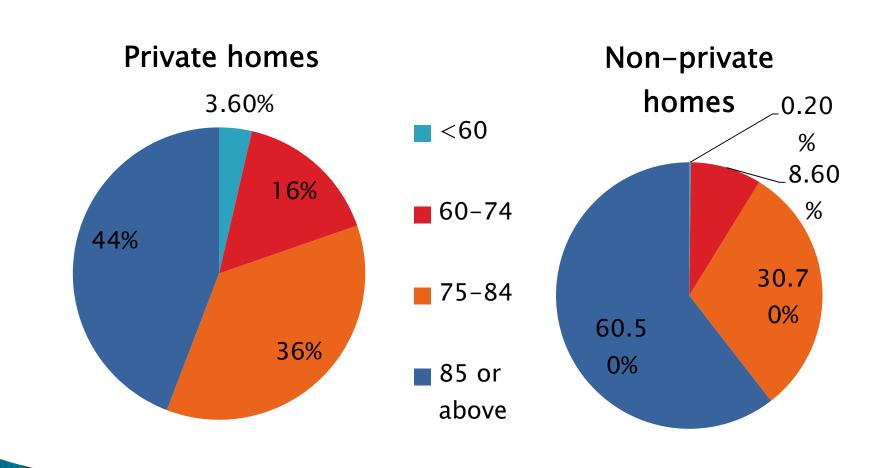
Types of RCHEs under Survey



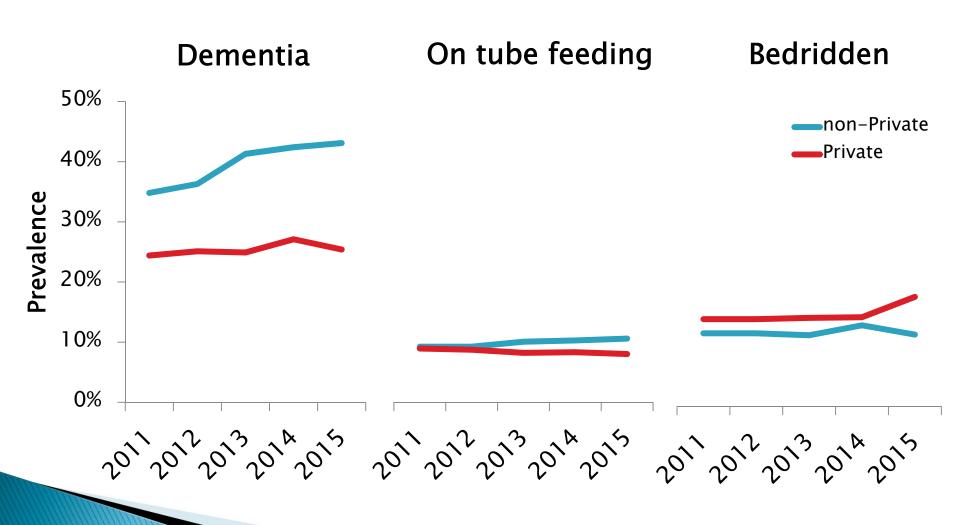
Distribution of Residents in RCHEs



Residents' profile - Age



Proportion of Residents Required Special Care



Staff profile: staff to residents ratio

	To resident ratio	
	Private homes	Non-Private homes
Nurse	1:71	1:10
Health care worker	1:16	1:17
Personal care worker	1:7	1:4

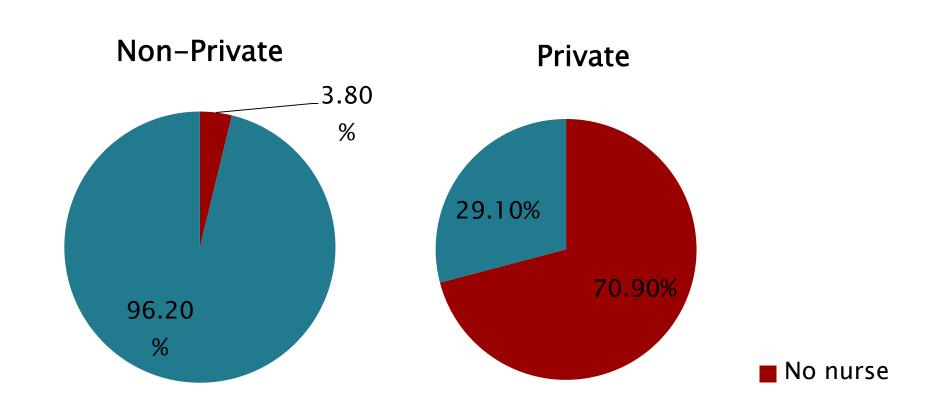
Nurse: Professionally trained

Health worker: completed training authorized by Director of

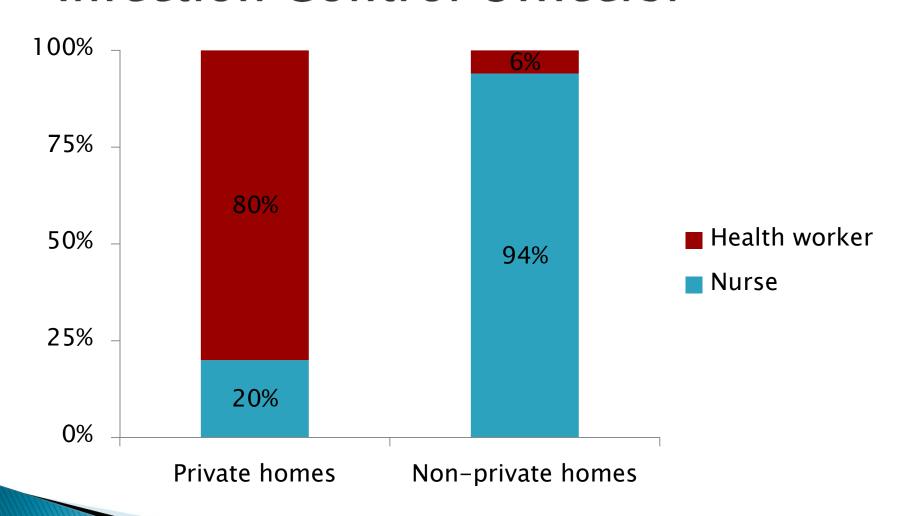
Social Welfare, Secondary 5 or equivalent

Personal care worker: Anyone employed for personal care

Percentage of RCHEs without professional nursing support

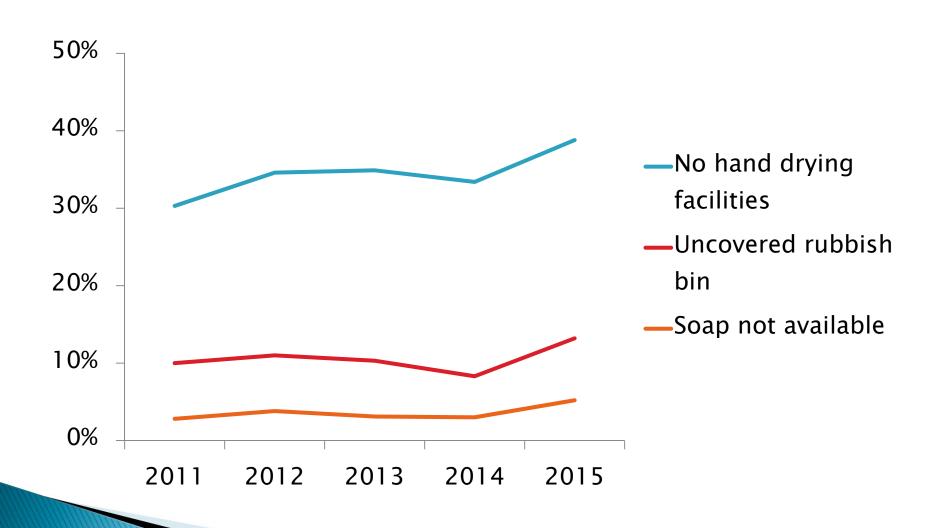


Who has taken up the role of Infection Control Officers?



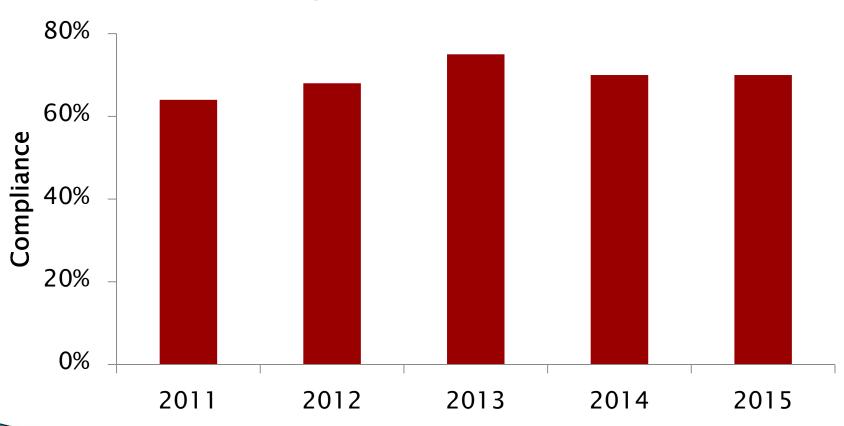
Environment & Facilities

Environment: Washroom

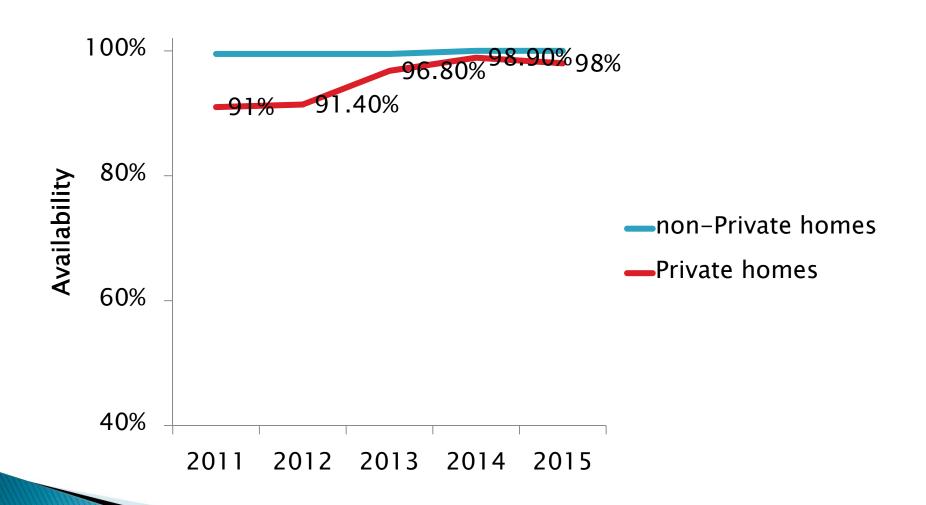


Environment: Kitchen

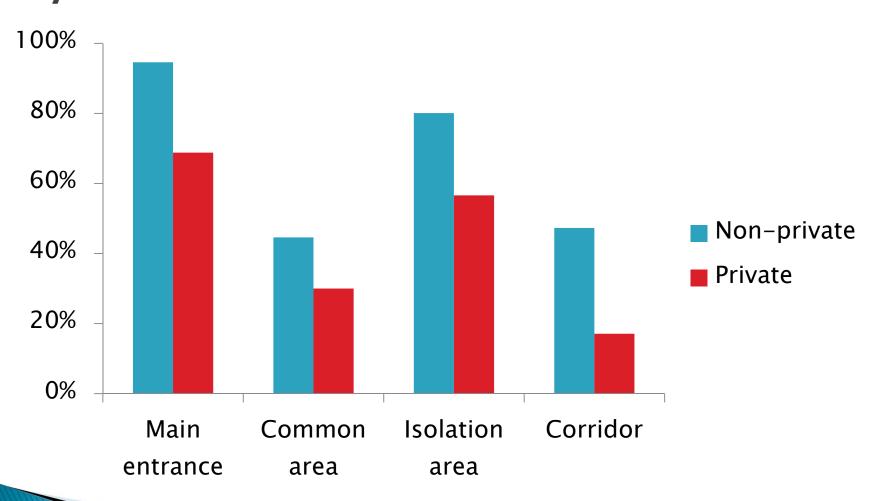
Refrigerator temperature



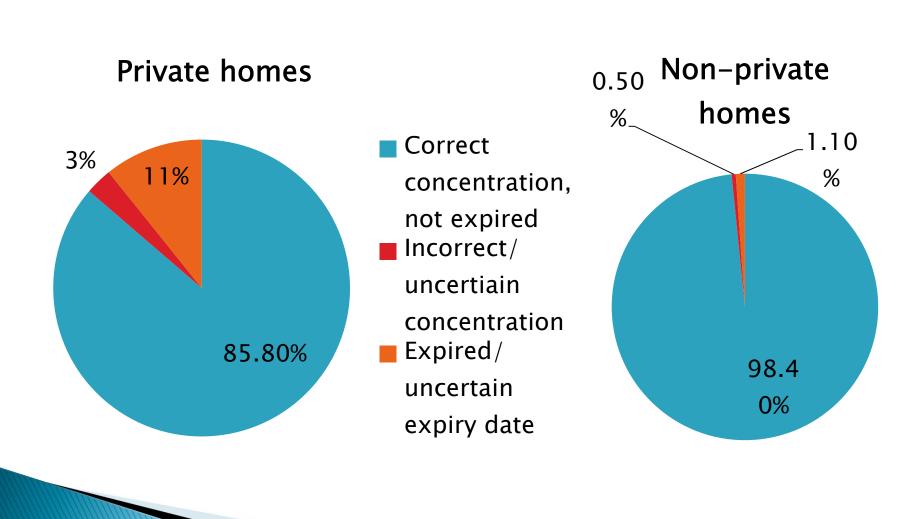
Availability of Alcohol hand rub



Availability of Alcohol hand rub – by Location



Alcohol based hand rub- Conditions



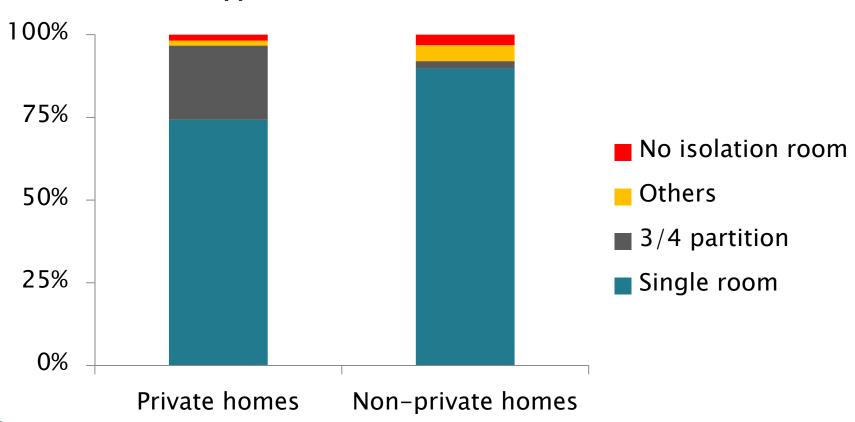
Facilities: Isolation Area

- ▶ COP s4.5
 - Shall provide isolation facility/room
- COP 12.4.3
 - A designated area or room
 - With good ventilation
 - Space for equipment for disposal of clinical waste
 - Basic hand hygiene and hand drying facilities

*Not necessarily an isolation room

Facilities: Isolation Area

Types of Isolation Area available



Examples of Isolation Area



Single room

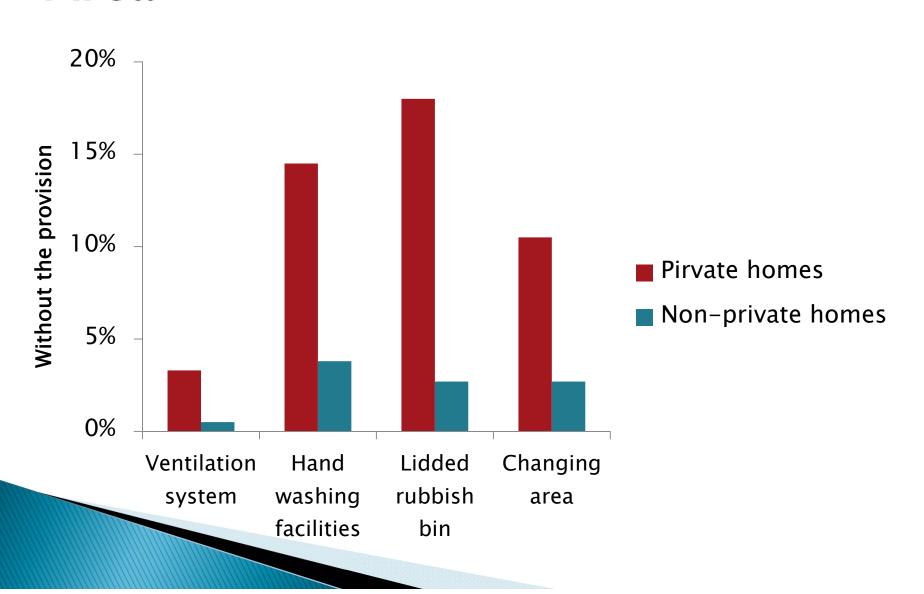


Half height partition

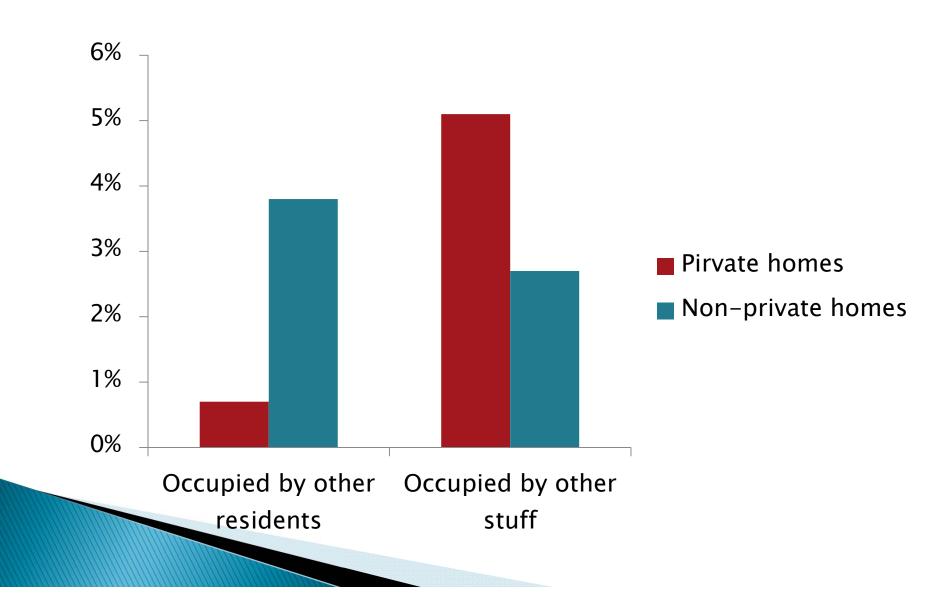


34 partition

Facilities: Deficiencies in Isolation Area



Facilities: Improper use of Isolation Area





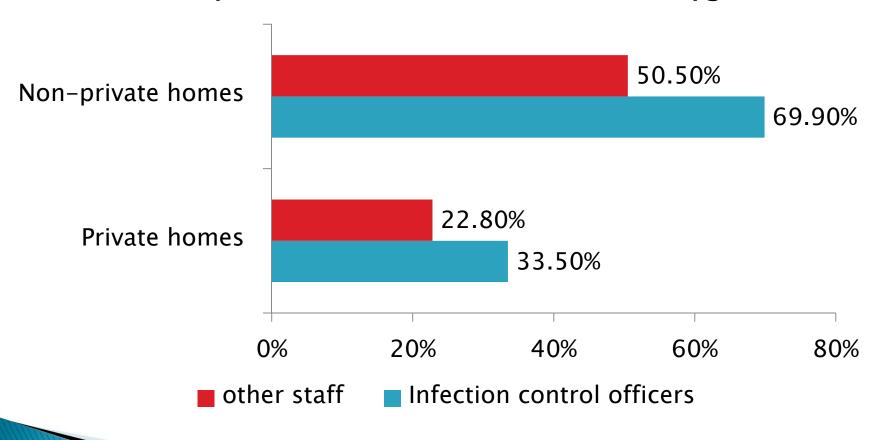
Isolation area is being used as store room

Knowledge

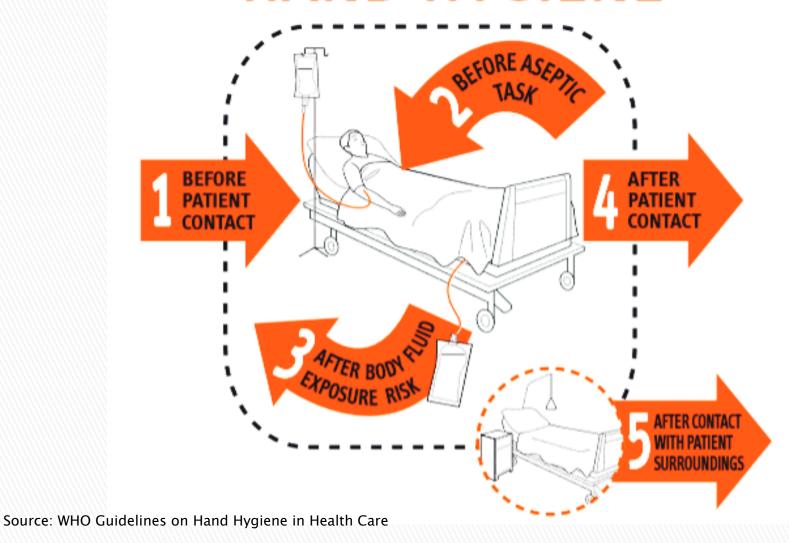


Knowledge: Hand hygiene

Correctly name the 5 moments for hand hygiene

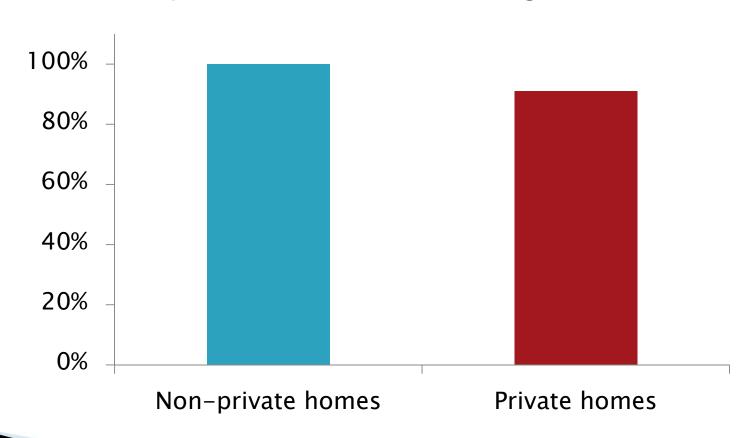


Your 5 moments for HAND HYGIENE



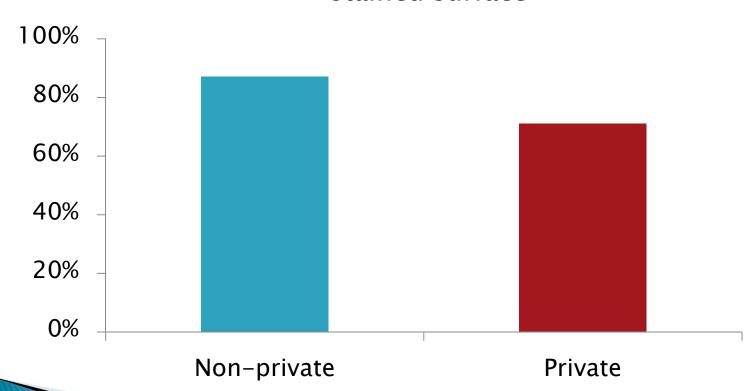
Knowledge: Cleansing and Disinfection

Proper disinfection of feeding funnel



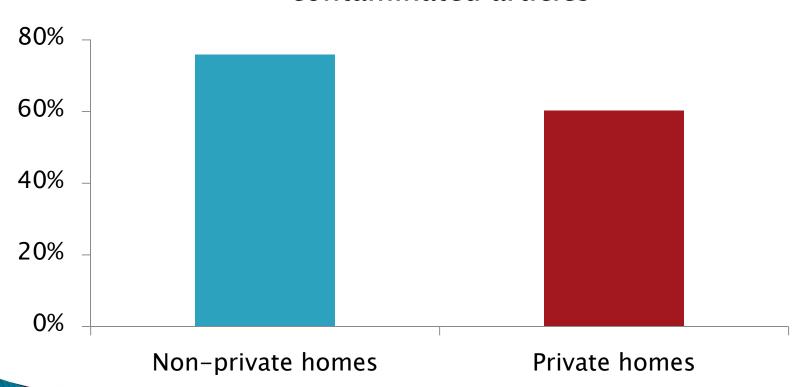
Knowledge: Decontamination (Blood)

Proper knowledge of management of blood stained surface



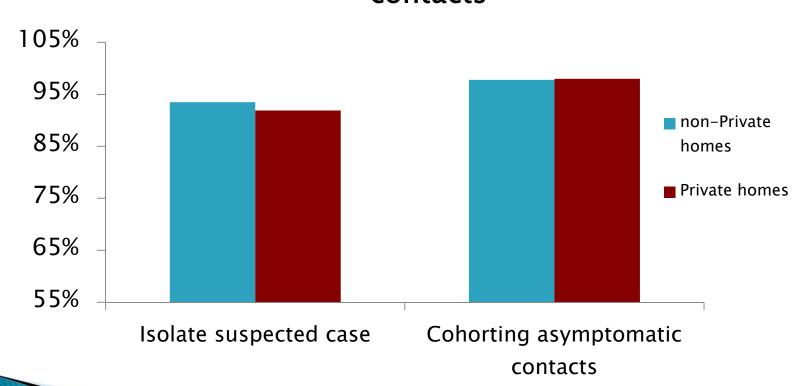
Knowledge: Decontamination (Scabies)

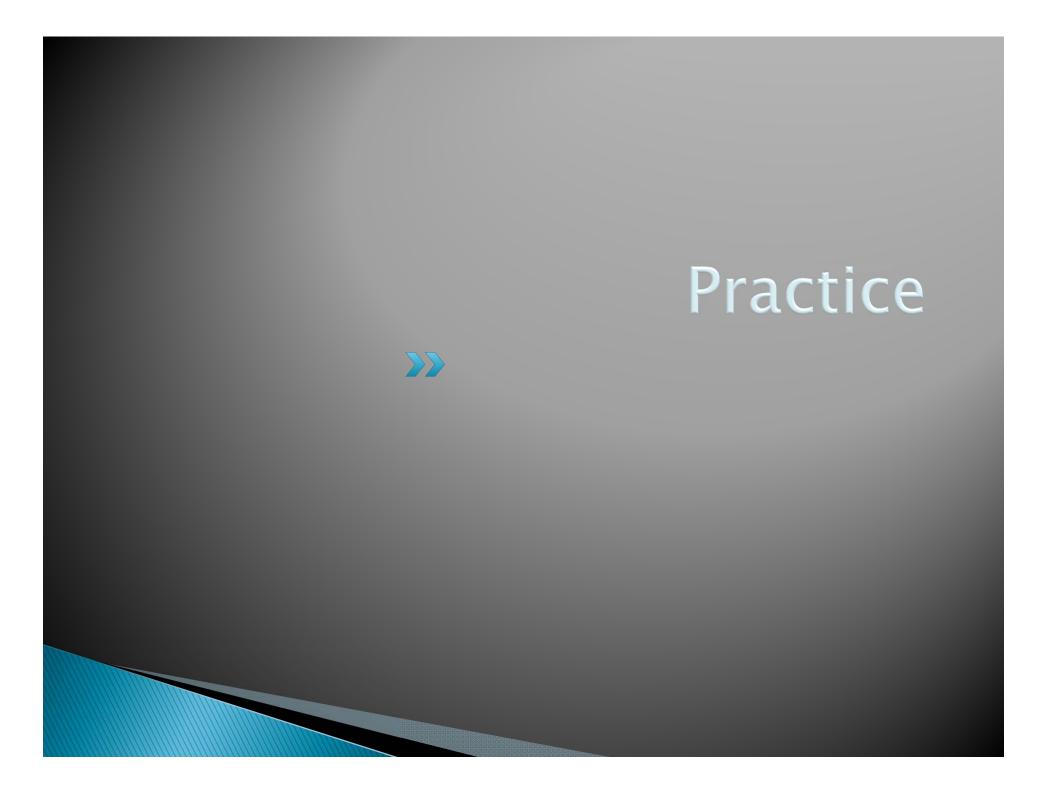
Can tell all correct management of contaminated articles



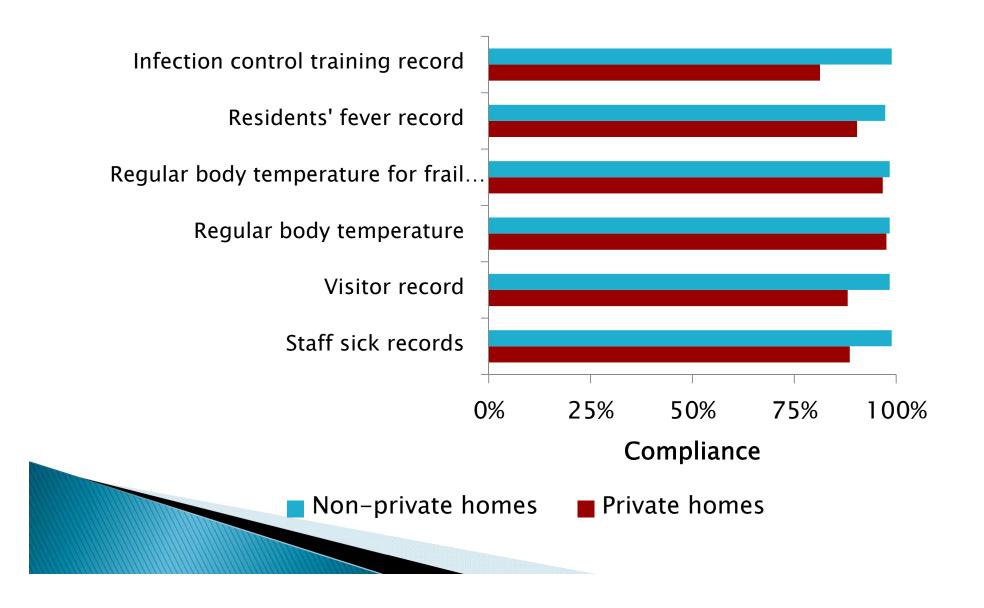
Knowledge: Handling of Suspected Case and Contacts of Infectious Disease

Correct management of suspected cases and contacts





Practice: Surveillance and Records

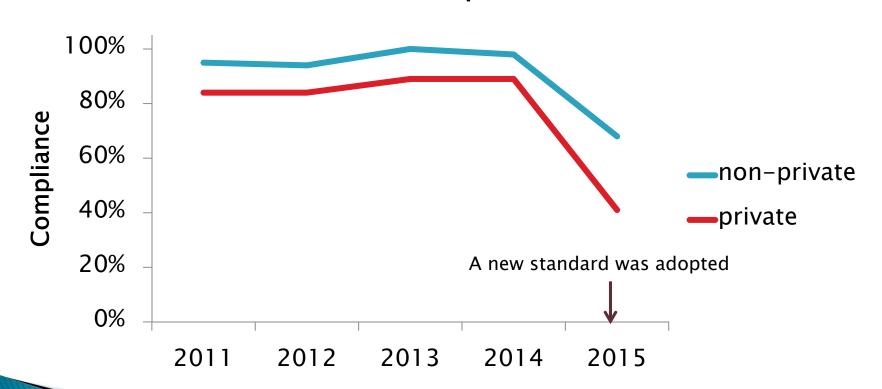


Practice: Hand hygiene



Practice: Hand hygiene

Demonstration of proper hand hygiene technique

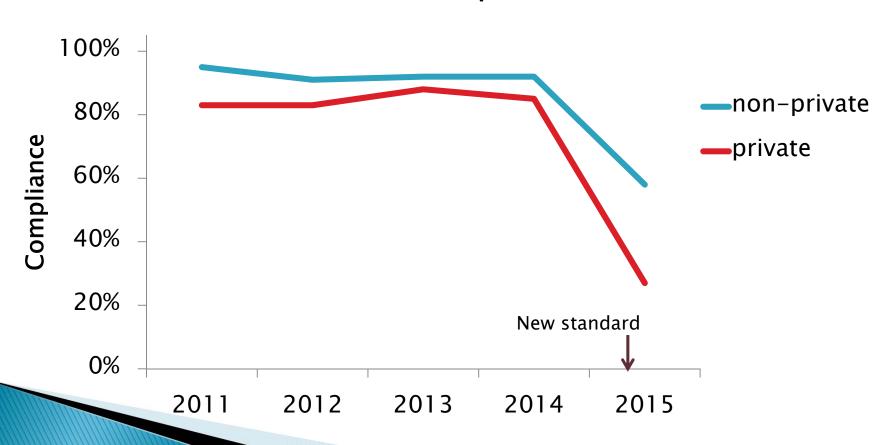


Practice: Use of PPE



Practice: Use of PPE

Demonstration of proper donning and doffing technique

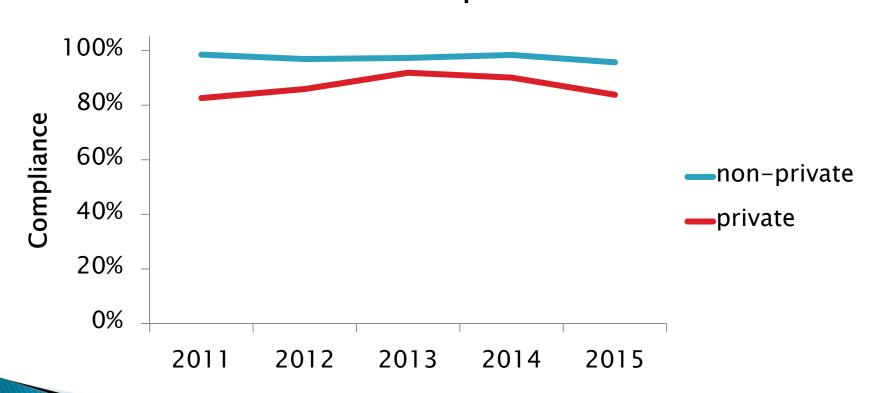




Practice: Bleach dilution technique

Practice: Bleach dilution technique

Demonstration of proper bleach dilution technique



Limitations and Challenges



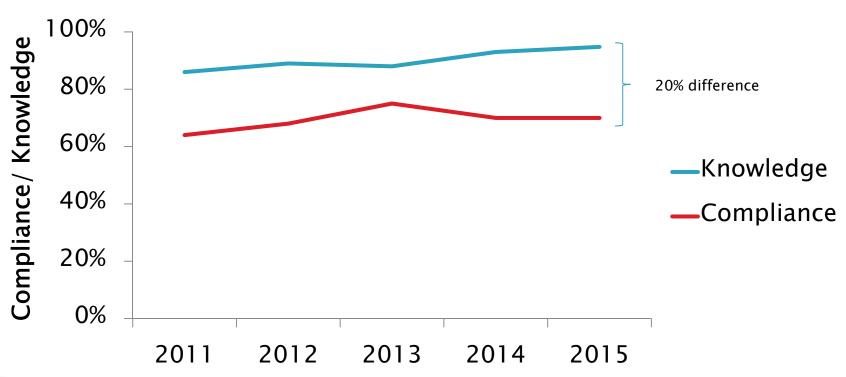
Limitations

The performance observed is not representing that for all staff in the RCHE as a whole

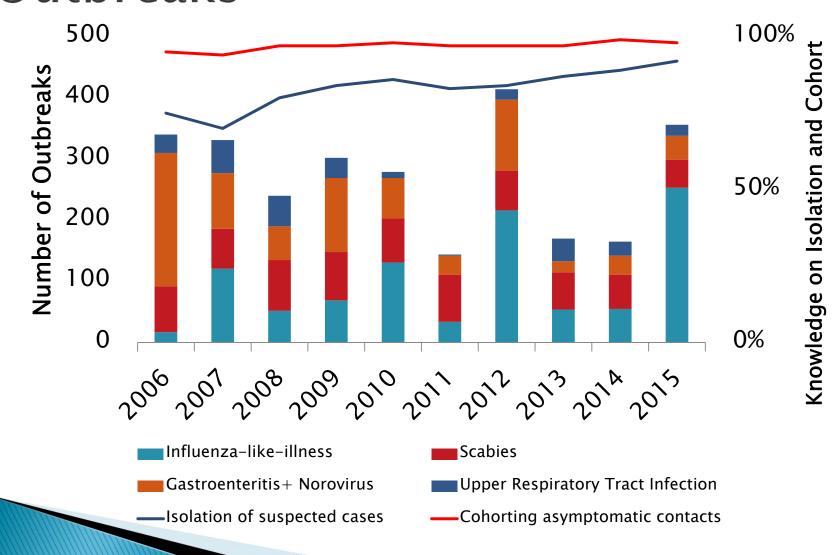
 Only assess the infection control measure at one particular point in time

Translation of knowledge into behaviour

Refrigerator temperature – Knowledge vs Compliance



Infection control knowledge vs Outbreaks



Challenges

- Resource implication
- High staff turnover rate
- Failure to engage all front-line staff in training

Way forward

- Enhancement in education programmes
 - Sustainable behaviour modification
 - Encourage self-auditing
- Review the policy of residential care service

THANK YOU!

