

Survey on Infection Control Measures in Residential Care Homes for the Elderly (RCHEs) in Hong Kong





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Infection Control Measures in RCHEs

- Introduction
- History of the Development of the Infection Control Programme
- Infection Control Enhancement Programme
- Way forward







Most of our elderly population are healthy and live in the community

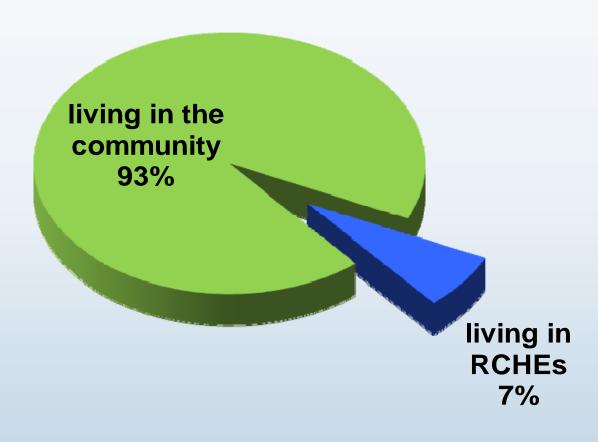








Proportion of Elderly Staying in RCHEs









RCHEs in Hong Kong

Definition: Any premises at which more than 5 persons who have attained the age of 60 years are habitually received for the purpose of care while residents therein

Types:

- Care and attention home
- Aged home
- Self-care hostel







Control of RCHEs

- All RCHEs are under the control of Residential Care Home (Elderly Persons)
 Ordinance (Cap. 459) and must comply with the Code of Practice
- All RCHEs are licensed with the Licensing Office for Residential Care Homes for the Elderly (LORCHE) of Social Welfare Department



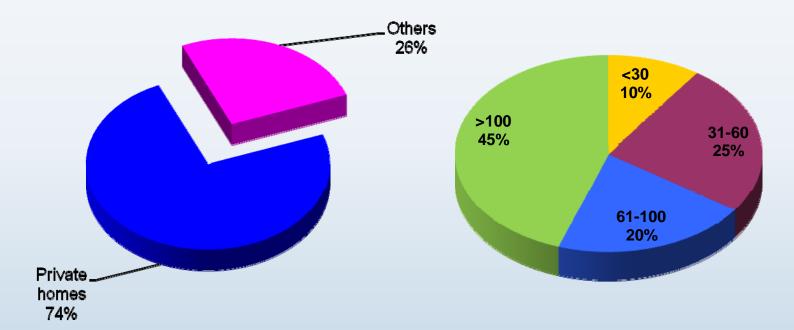




RCHEs in Hong Kong (2010: 788 homes)

Type of RCHEs

Capacity of RCHEs (number of residents)

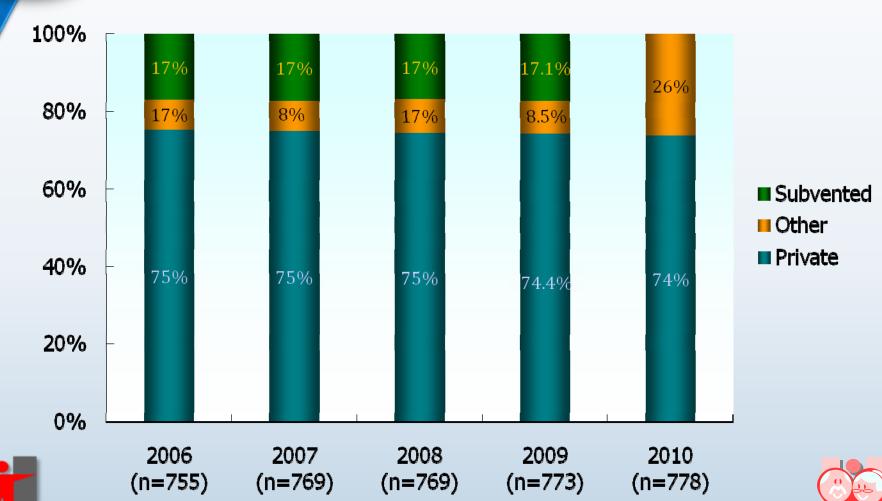








Home Types



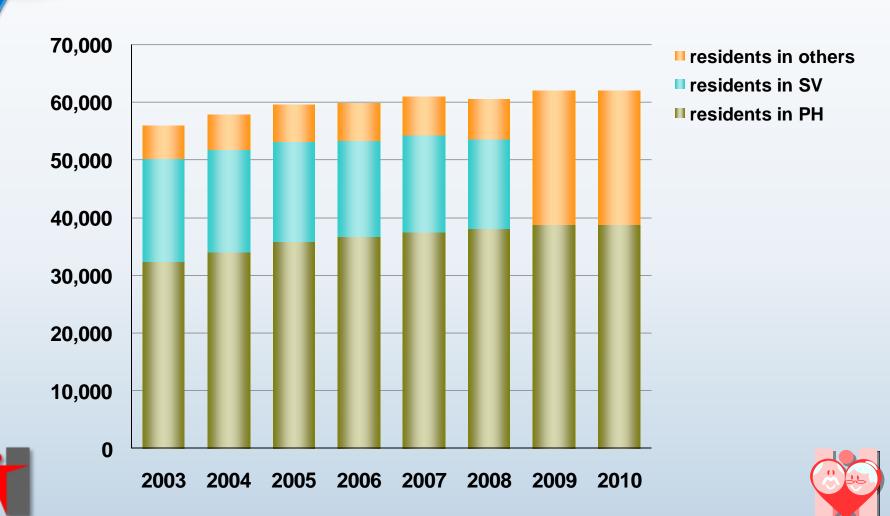












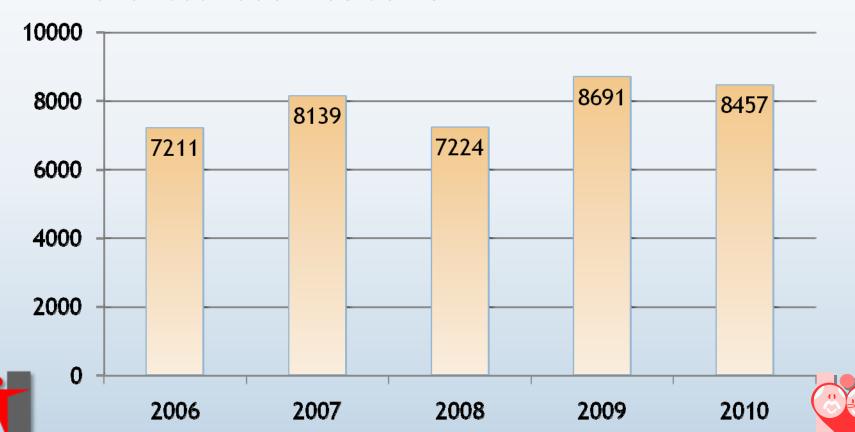


staff: resident ratio

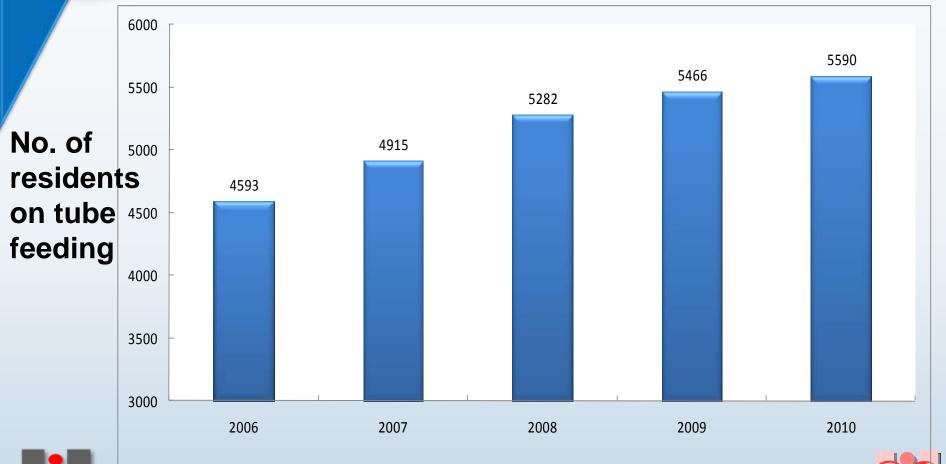
	2006	2007	2008	2009	2010	% of PH (n=575) without staff (incl. full/part time)
Total	21162	21267	22089	22789	23224	
All staff	1:3	1:3	1:3	1:3	1:3	
PCW	1:6	1:6	1:6	1:6	1:6	
HW	1:24	1:22	1:20	1:19	1:18	
Nurse	1:33	1:30	1:30	1:30	1:28	433 (75.3%)
PT	1:180	1:169	1:172	1:155	1:175	413 (71.8%)
ОТ	1:446	1:362	1:380	1:309	1:265	495 (86.1%)
DT	1:933	1:609	1:715	1:634	1:521	497 (86.4%)
Dispenser	1:1957	1:1352	1:1538	1:1218	1:621	563 (97.9%)



No. of bedridden residents









No. of residents on urinary catheter







Before SARS era



Before SARS era (1)

- Infection Control Nurses in large RCHEs
- Different parties including VHT, CGAT and LORCHE played a part
- No systematic liaison
 - Overlapping roles
 - Inconsistency in health education
 - Delayed notification







Before SARS era (2)

Role of Visiting Health Teams (VHTs)

- General health education
- Discussion on ad hoc hot topic (e.g. cholera, influenza)
- Annual Influenza
 Vaccination Programme for all residents since 1998







SARS:

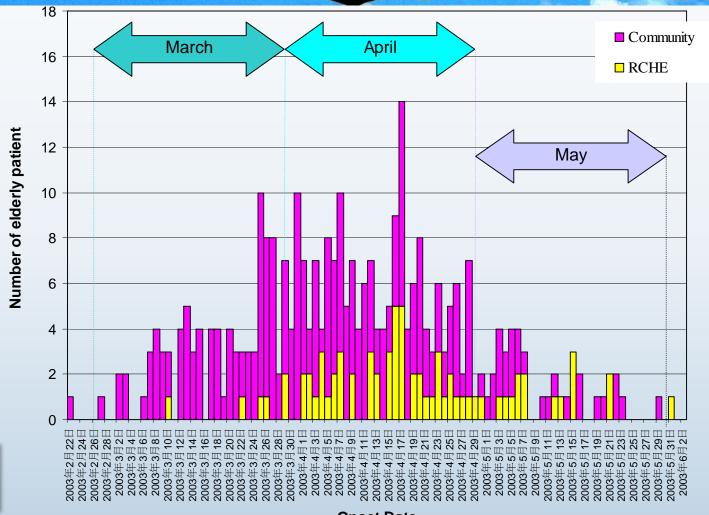
- A threat?
- o An opportunity?
- o A challenge?





Join Hands to Combat SARS

The SARS Epidemic









	Hong Kong	RCHE residents		
Infected with	1755	72		
SARS				
Died from	299	57		
SARS				
Mortality	17%	79%		







In view of

- the vulnerability of the residents and
- the group-living environment that will predispose to infectious disease outbreaks,

An **active** infection control program is mandatory.









Infection Control Enhancement Program

Objectives:

- -To enhance the capability of RCHEs for infection control
- -To promote the prompt reporting of suspected outbreaks







Infection Control Enhancement Program

4 main components

- Baseline Checklist Survey
- Issue of Revised Infection Control Guidelines
- Training programme to Infection Control Officer (ICO) in every RCHE
- Evaluation and Continuous Monitoring







Component 1: Baseline Checklist Survey

Objective:

To study the knowledge, facilities and practices relating to infection control in RCHEs







Method

- A cross-sectional survey
- From August to October 2003
- Nurses of EHS visited all RCHEs
- Structured checklist on infection control
 - a self-administered questionnaire
 - an inspection checklist
 - an interview questionnaire









Data retrieved

- Characteristics of the residents
- Staffing
- Environment
- Practice







Findings

- Physical constraints (isolation area, hand washing facilities)
- 2. Variations in the education background of the staff in-charge (health workers, nurses)
- Variations in the infection control practices
- 4. Misunderstanding about the outbreaks reporting







Component 2: Issue of revised guideline

Guideline on Prevention of Communicable Diseases in RCHEs

- Input from CGATs (HA), RO (DH, now replaced by CHP), SWD
- Set up an enhanced information exchange system with RO, CGATs and LORCHEs
- Comprehensive, user-friendly, practical tips
- Situation tailored with common scenarios







Guideline on Prevention of Communicable Diseases in RCHEs







Component 3: Training programme to ICOs

- Designation of Infection Control Officer in every RCHEs with effective from 1st of Nov. 2003
- This requirement is added into Code of Practice for RCHEs







Component 3: Training programme to ICOs

Tailored training programme to the ICOs

- Workshops annual training workshops on common infectious diseases and infection control measures
- On-site training
- Sharing forum







Training programme to ICOs

Workshop



On-site Training









ICO qualification

	2006	2007	2008	2009	2010
Nurse	261	434	445	440	461
110.100	(34.6%)	(29.4%)	(30.3%)	(30.2%)	(31.6%)
 Health	500	909	891	976	903
worker	(66.2%)	(61.5%)	(60.7%)	(67.1%)	(61.8%)
othor	18	135	131	64	96
other	(2.4%)	(9.1%)	(8.9%)	(4.4%)	(6.6%)







Component 4: Evaluation and Continuous Monitoring



Annual Infection Control Checklist Survey

Aims:

- -To understand the infection control conditions in the RCHEs
- -To identify the areas for improvement or target for health education
- -To evaluate the effectiveness of the infection control programme
- -To increase alertness of the home staff









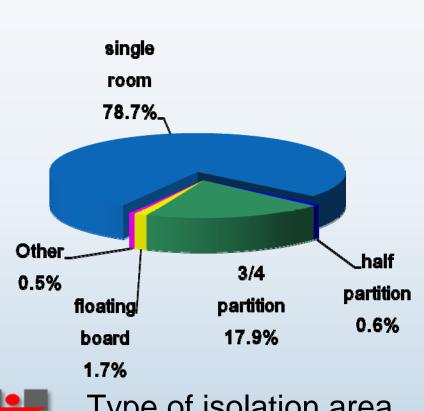
Isolation Room





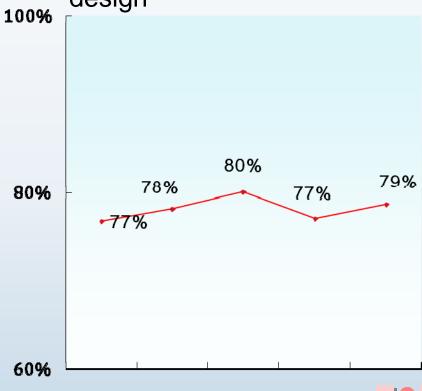


Type of isolation area



Type of isolation area (2010)

Percentage of homes whose isolation area is single room design



2008

2009

2006

2007



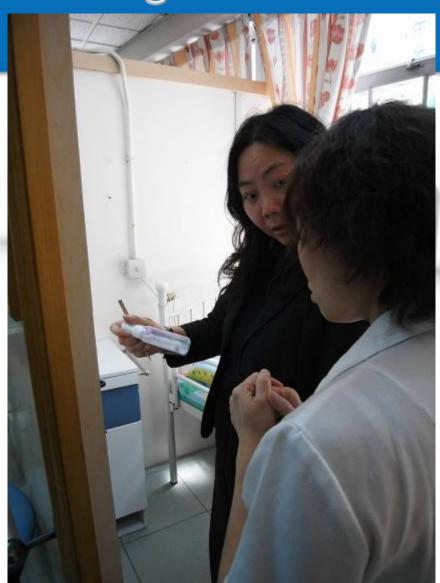
Attitude & usage of isolation room

	2005	2006	2007	2008	2009	2010
Cohort sick resident to isolation room	73%	75%	70%	79.7%	84.2%	86.4%
Isolation concept	94%	95%	94%	96.6%	97.3%	97.8%
Isolation room ready for use		75%	81%	88.3%	89.3%	94.6%











Knowledge on the response level

	2006	2007	2008	2009	2010
Do not aware	176	143	91	25	53
of the response level	(23.3%)	(18.6%)	(11.8%)	(3.2%)	(6.8%)
Do not know	449	462	393	296	393
the current response level	(59.5%)	(60.1%)	(51.1%)	(38.4%)	(50.5%)
Can name the	130	164	285	450	332
current response level	(17.2%)	(21.3%)	(37.1%)	(58.4%)	(42.7%)



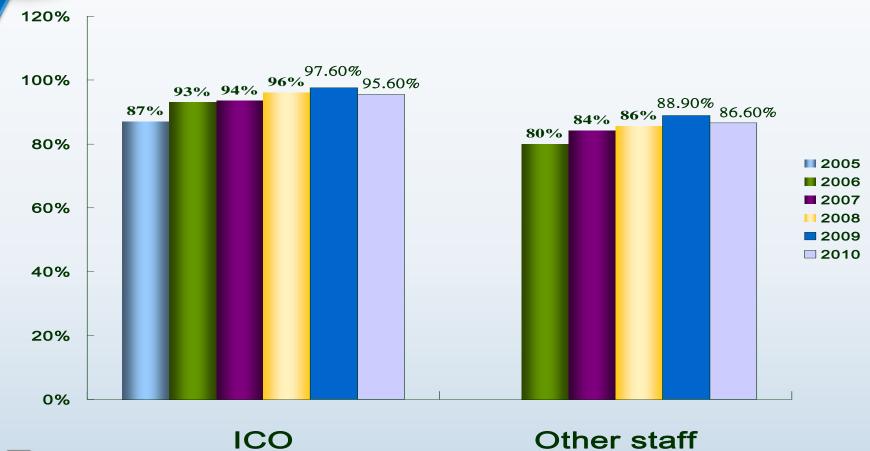


Skill





handwashing



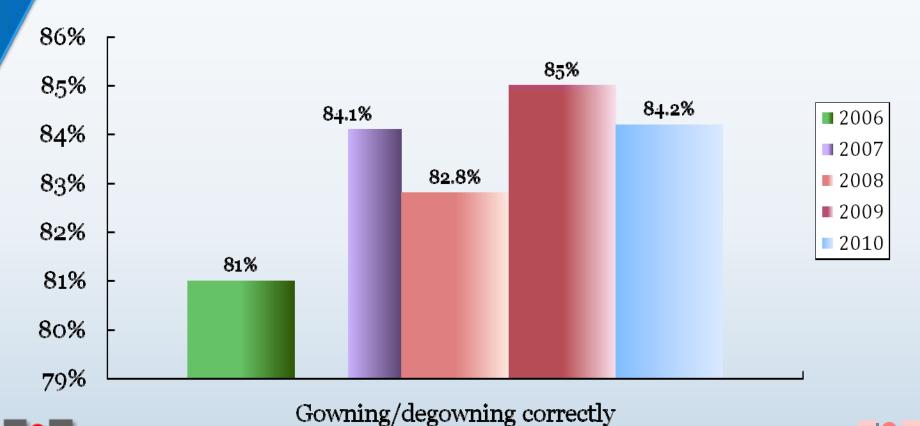








Correct use of PPE



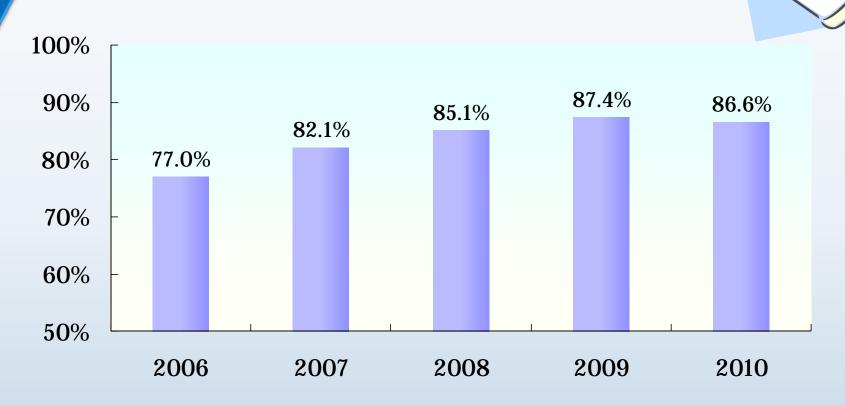








Demonstration -Bleach dilution



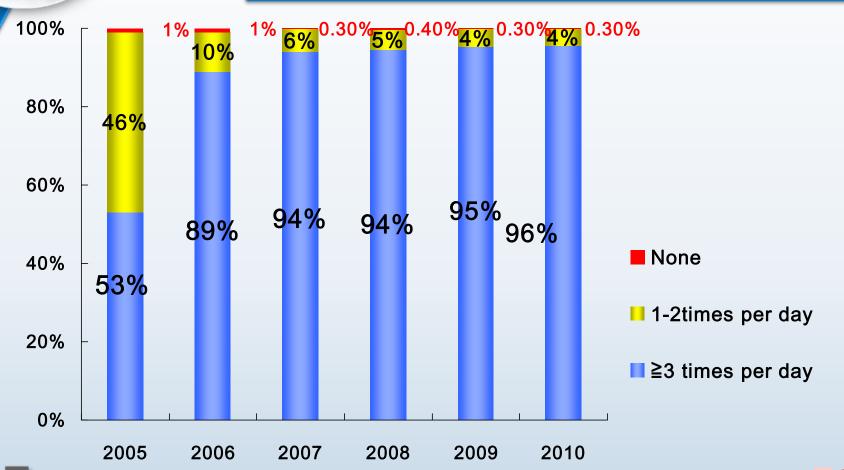








Oral care for residents









Host Factors -- Get the residents involved

Adopt healthy lifestyle

 Balanced diet, regular exercise, do not smoke, adequate rest





Get vaccinated

 Target groups extended to home staff since 2005





- Pneumococcal vaccination had been provided to residents since 2009
- HSI vaccination in 2010

Promote personal hygiene









Way forward

- Targeted approach: enhanced education programme to the homes with unsatisfactory performance
- Continuous monitoring: with special attention to areas for improvement
- Continuous improvement: refresher courses for the home staff
- Better collaboration: collaborate with relevant parties to enforce the infection control measures
- Host factors: get the residents involved







Thank You

