



## Safety is everyone's concern

- from 2004 onward, new public light bus must equip with
  - high back seat
  - passenger seat belt
- public light bus passenger must wear seat belt where provided

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### Seat belt saves life (TD, 2003)

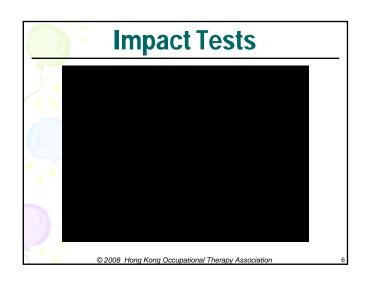
• compulsory seat belt legislations  $\rightarrow$  fatal accident  $\downarrow$ 

vehicle class	coverage	effective date
private car	driver/front passenger	1983
taxi & light bus	driver/front passenger	1989
goods vehicle	driver/front passenger	1990
private car	rear passenger	1996
bus	driver	1997
taxi	rear passenger	2001
public light bus	passenger	2004
	passenger	

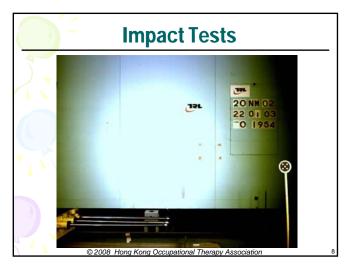
Wheelchair users

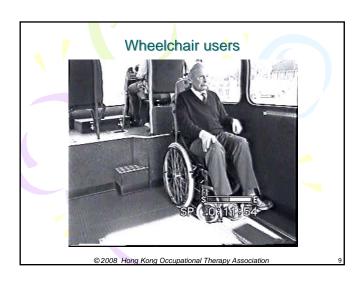
EVERYBOOV
SECURE
THERE ?

THERE ?









# Wheelchair users

- increasing demand & expected usage of transportation service
  - frequent revision of 'A Guide to Public Transport for People with Disabilities' by Transport Department, i.e. 1993, 1996, 2000, 2003, 2005
  - new requirements in franchised bus services:
     fixed ramp, back rest and restrain lap belt, front kneeling capacity...
  - increasing number of Rehabus & launch of accessible hire car service

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#### **Short summary**

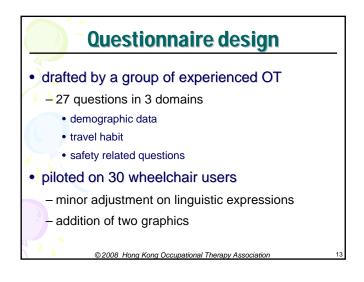
- increasing effort in transportation safety for general public
- increasing need from wheelchair users, including ageing population
- Question in mind
  - are wheelchair users safe during transportation?

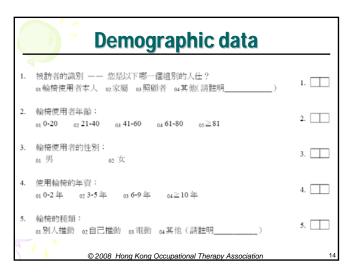
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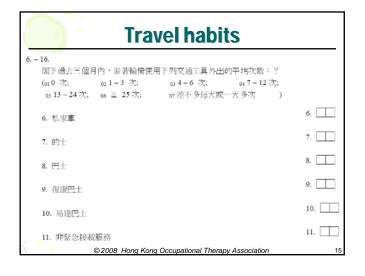
#### **Objectives**

- understand the state of wheelchair transportation safety by user's experience
  - seating orientation
  - presence of safety equipment
- examine acceptance & self-reported usage of safety equipment provided by transit operator
  - wheelchair tiedown
  - occupant restraint

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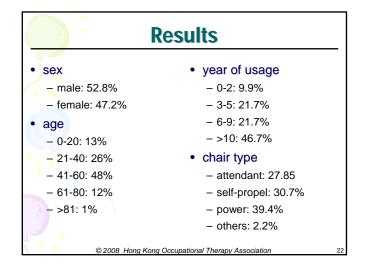


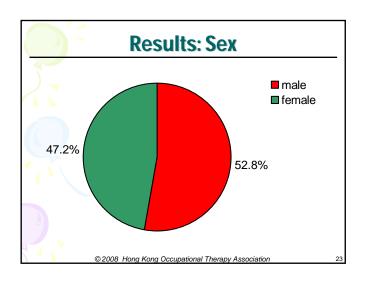


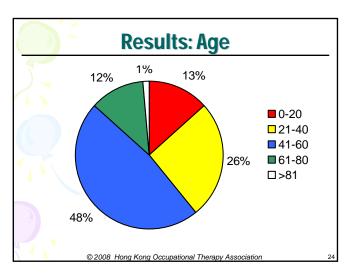


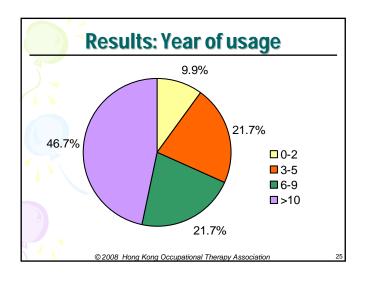


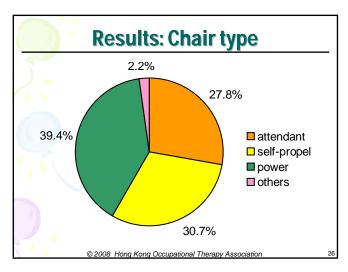
# Methodology 2880 questionnaire sent out to members of 7 local organizations representing majority of wheelchair users in HK 574 questionnaire received response rate: 20% 562 questionnaire valid for analysis











# People using wheelchair as seat

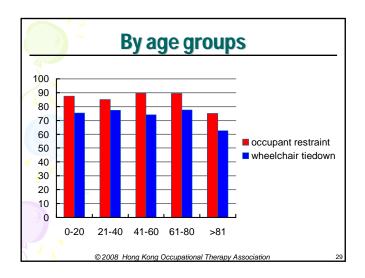
- frequently use Rehabus (74.0%), MTR
   (54.2%) and KCR (36.6%)
- 22.3% reported <50% situations having wheelchair tiedown
- 28.1% reported <50% situations having occupant restraint
- 9.3% positioned in side facing orientation

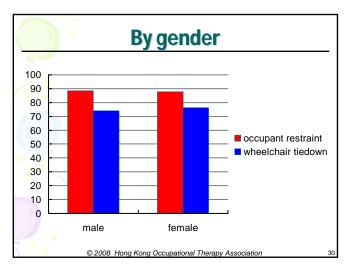
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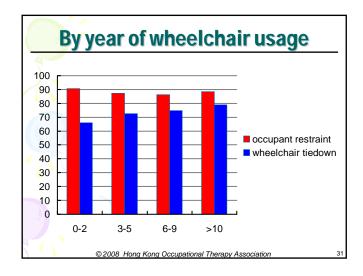
# Self-report knowledge & usage

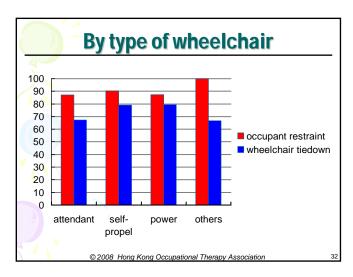
- >70.0% respondents reported to have knowledge in & actual usage of wheelchair tiedown
- self-reported usage of occupant restraint > wheelchair tiedown in all comparing groups

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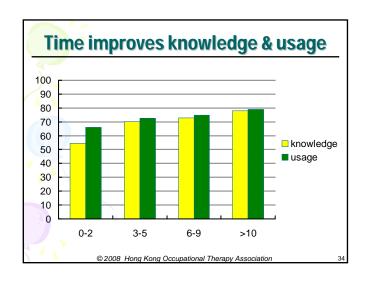




#### Safety awareness

- 24.6% (n=122) respondents did not use wheelchair tiedown
- 11.9% (n=65) respondents did not use occupant restraint
- year of wheelchair usage relates positively to
  - self-perceived knowledge
  - self-reported usage of safety equipments

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#### **Discussion**

- 24.6% respondents chose not to use wheelchair tiedown
- wheelchair tiedown & occupant restraint should go hand in hand
  - discrepancy in wheelchair tiedown & occupant restraint
- safety should not delay
  - positive relation between years in wheelchair and equipment knowledge & usage

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#### **Discussion**

- education should begin as early as people starts wheelchair training or prescription
- 9.3% respondent using wheelchair as seat during transportation were positioned in side facing orientation
- we are not looking for something special but equal protection for abled bodies & wheelchair users

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### **Acknowledgement**

- Direction Association for the Handicapped (路向四肢傷殘人士協會)
- Hong Kong Federation of Handicapped Youth (香港傷殘青年協會)
- Hong Kong Neuro-Muscular Disease Association (香港肌健協會)
- Hong Kong Rehabilitation Power (香港復康力量)
- Paraplegic & Quadraplegic Association (柏力與確志協會)
- Rehabilitation Alliance Hong Kong (香港復康聯盟)
- Rehabus Service, The Hong Kong Society for Rehabilitation (香港復康會復康巴士)

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#### **Wheelchair Users Concern Group**

- our concern
  - the needs of wheelchair users
- study
  - Users' Perception on Wheelchair Transport Services in Hong Kong (2004)
    - presented in the 'Transport for All' seminar
  - Users' Experience of Wheelchair Transportation Safety in Hong Kong (2008)
    - presented in 2008 International Occupational Therapy Conference
- training
  - Basics in Wheelchair Transportation Safety (2005)
    - occupational therapist & wheelchair suppliers

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