



# Work Rehabilitation Center (Princess Margaret Hospital)

The work rehabilitation centers has been established in Princess Margaret Hospital in 2003.

OTs provided functional capacity evaluations (FCEs), work conditioning and work hardening programs





Hospital

# Work Rehabilitation Center (Princess Margaret Hospital)

□ Patient Retraining & Vocational Resettlement Services (1997) collaborated with the Employees Retraining Board - an independent statutory body established in 1992 under the Employees Retraining Ordinance in Hong Kong > provide job resettlement services for injured worker to seek new jobs



# Work Rehabilitation Center (Princess Margaret Hospital)

1. Adopt a standardized approach guided by clinical practice guidelines

Clinical Guidelines on Occupational Therapy Work Rehabilitation Program for People with Physical dysfunction (2<sup>nd</sup> Edition, 2008)



Occupational Therapy Reference on Return to Work Program 2015 (1st Edition)

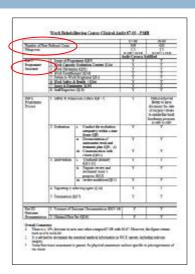


## Work Rehabilitation Center (Princess Margaret Hospital)

#### 2. Clinical Audit

Clinical Audit on 10 designated Work Rehabilitation Centers in every two years since 2002

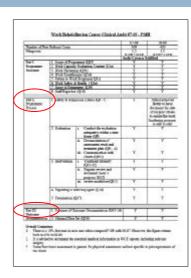
- · No. of New Referrals
- Manpower
- Part I:Programme structure
  - Scope of Programme, Work Capacity Evaluation, Work Hardening, Work Resettlement, Return to Work Programme, Work Safety & Health, Space & Equipment, Staff Expertise



# Work Rehabilitation Center (Princess Margaret Hospital)

Clinical Audit on 10 designated Work Rehabilitation Centers in every two years since 2002

- · Part II: Programme Process
  - Safety & Admission criteria
  - Evaluation
  - · Intervention
  - · Reporting to referring agent
  - Termination
- Outcome Documentation
  - Presence of Outcome Documentation
  - · Minimal Data Set
- Overall comments





### Work Rehabilitation

Work Rehabilitation is one of the essential components of vocational rehabilitation intervention aimed at re-integrating injured workers with work disability into work.





## Study Design

A retrospective study

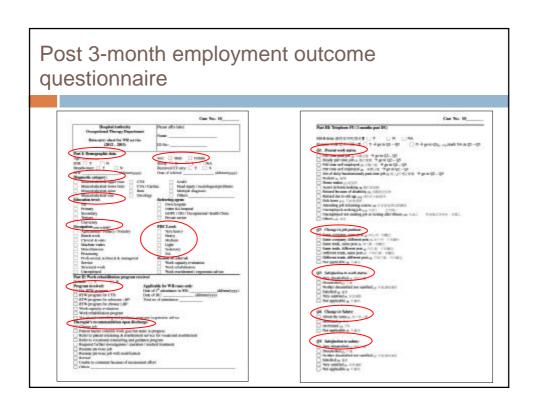
in reviewing the employment outcomes of injured workers in work rehabilitation program in PMH between the period of <u>1 April 2008</u> & <u>31 March</u> 2013

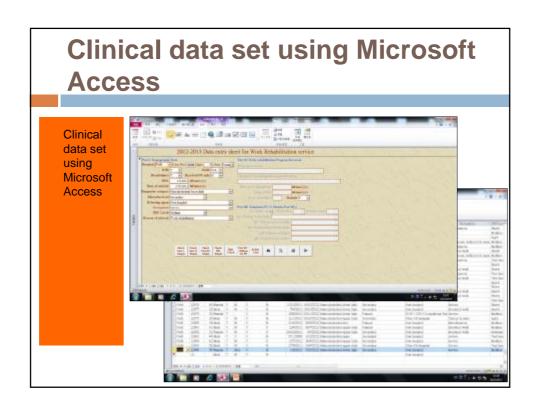
- data captured from clinical data set specially designed for the work rehabilitation centers in HA
- x Samples recruited:
  - A. referred for work rehabilitation by physician
  - B. completed the work rehabilitation program
  - c. completed the post 3-month employment telephone interview

## Study Design

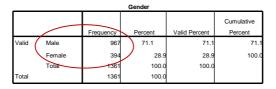
After completing the work rehabilitation program, a telephone interview was conducted with a specifically designed questionnaire in a 3-month period to capture their current condition & employment status.

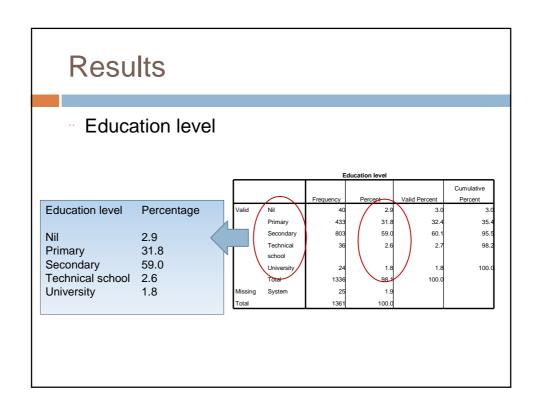


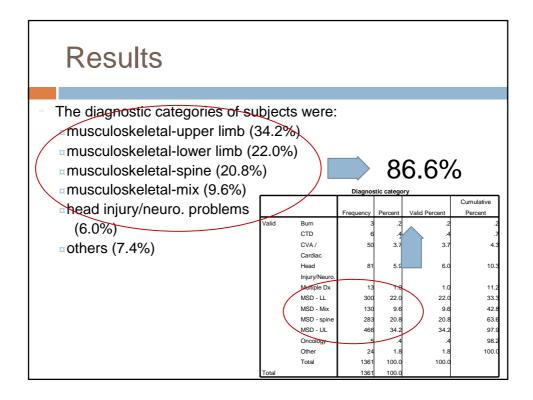




- 1361 samples were recruited in this analysis
- 967males, mean age was 46.4 (sd=10.4) and 394 females, mean age was 47.5 (sd=9.2)







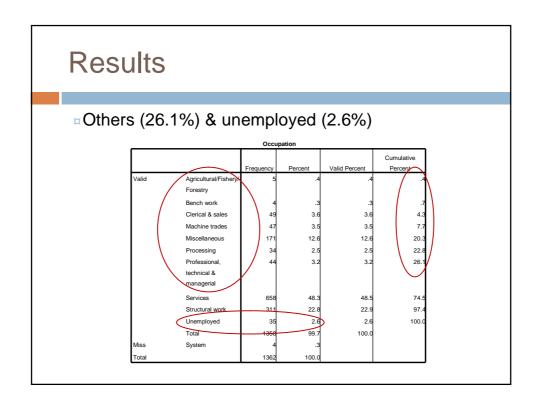
- The samples were group under 9 occupational categories of local job bank (based on the Dictionary of Occupational Titles) as below:
  - Agricultural/Fishery/Forestry
  - <sup>
    □</sup> Bench work
  - Clerical & sales
  - Machine trades
  - Miscellaneous
  - Processing
  - Professional, technical & managerial
  - Services
  - Structural work

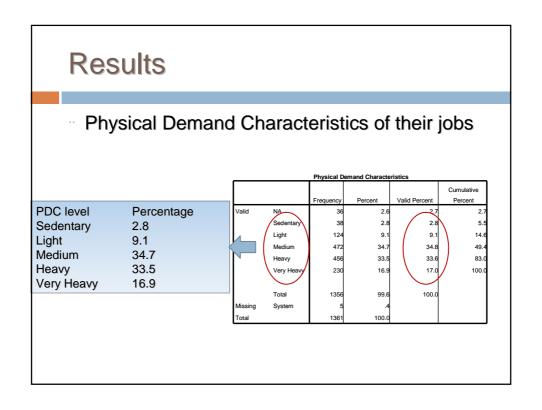
- The majority of the samples were came from two main occupational categories:
  - 1.Service (48.3%)



- The majority of the samples were came from two main occupational categories:
  - 2.Structural work (22.9%)



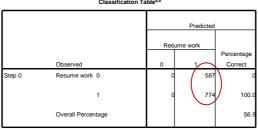




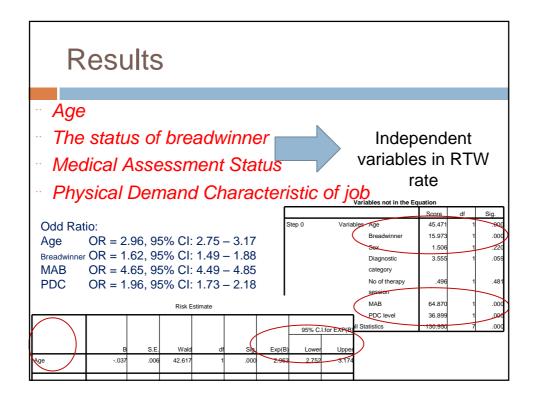
- All subjects have received work rehabilitation including Work Capacity Evaluations (WCEs) & Work Rehabilitation Program (Work Conditioning & Work Hardening
- The mean number of treatment sessions was 14.2 (sd= 5.7)

- Logistic regression analysis was used to examine the association among the potential independent variables and employment outcomes (IBM SPSS Statistics 19)
- A <u>dichotomous variable</u> of <u>employment</u> <u>outcomes</u> was defined as <u>"Return To Work"</u> (RTW) & "not able to RTW"
  - (RTW was defined as open employment or selfemployment that was performed on a full-time or part-time basis)

Among them, 774 (56.9%) were able to resume job and 587 (43.1%) were not able to resume job after receiving the work rehabilitation program in PMH.



- a. Constant is included in the model
- b. The cut value is .50



#### Conclusions

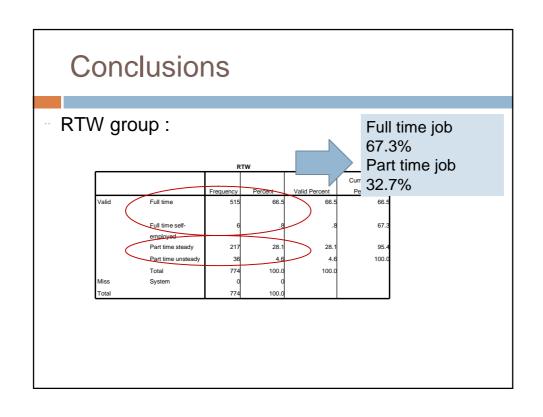
Work Rehabilitation is one of the essential components of vocational rehabilitation intervention aimed at re-integrating injured workers with substantial work-related problems back to worker role.

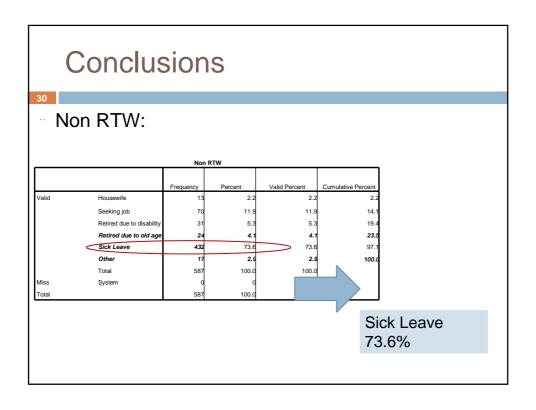




### Conclusions

- 56.9% were able to resume job after discharged from the Work Rehabilitation (WR) program
- RTW group was younger & received shorter period of WR, mean age 43.1 (sd=9.7) and therapy sessions 12.0 (sd=4.4), as compared with non RTW group mean age 48.8 (sd=10.4) and therapy sessions 18.0 (sd= 6.9)





## Conclusions

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- Limitations of this study:
  - potential confounders not in the data set cannot be investigated such as:
    - nRTW coordination (William Shaw, Quan-nha Hong, Glenn Pransky, Patrick Loisel, 2008)
      - n 6 preliminary competency domains:
        - n (1) ergonomic & workplace assessment
        - n (2) clinical interviewing
        - n (3) social problem solving
        - n (4) workplace mediation
        - n (5) knowledge of business & legal aspects
        - n (6) knowledge of medical conditions.
      - n Discussion principal activities of RTW coordination: workplace assessment, planning for transitional duty, facilitating communication & agreement among stakeholders.



### Conclusions

- Limitations of the study:
  - potential confounders not in the data set cannot be investigated:
    - n Psychosocial variables: recovery expectation, fear avoidance, low social support from supervisors & colleagues, low decision latitude, high psychosocial work demands, a poor subjective prognosis, etc.





### Conclusions

- Limitations of the study:
  - Other potential confounders such as employee compensation & legal issues...
  - x Study design, e.g. convenience sampling
  - Job sustainability was another major concern in RTW for injured workers

## Acknowledgement

- Ms. Stella Cheng, KWC Allied Health Service Coordinator (Occup)/ Department Manager, PMH/NLTH, Hong Kong
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