

F – P1.33

# Evaluate the Outcome of Developing a Clinical Pathway on Male Acute Urinary Retention (AUR) in the Accident and Emergency Department & Urology Centre

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## (I) Introduction

- Acute urinary retention (AUR) is a painful and distressing condition
  - Common in males and requires urgent management
  - Around 250 - 300 patients / year admitted in QMH via AED
  - Length of stay: 2-3 days / patient
  - Hospital fee: **HK\$ 4,680 / day** (HK residents only need to pay HK\$100 / day of hospital stay + HK\$ 50 administrative fee / admission, so the remaining **HK\$4,530** will be **subsidized by HK Government**)
  - About **1,660,000 discharge episodes** in public hospitals in 2015
- (The Information Services Department, HKSAR, GovHK website: <http://www.gov.hk> )
- **Heavy financial burden**

## (II) Objective

1. Prevent **unnecessary hospitalization**
2. **Relieve financial burden** on hospitals and government

### (III) Methodology (1)

#### Inclusion Criteria:

1. Male patients
2. Aged  $\geq 50$
3. Cognitive intact
4. Insertion of urethral catheter in AED without underlying problem
5. Eligible patient agrees to join the pathway

#### Exclusion Criteria:

1. Female
2. Febrile patient
3. Failed urethral catheter insertion in AED
4. Urine  $> 1000$  ml or  $< 250$  ml (1<sup>st</sup> cath)
5. Urine  $> 250$  ml/hour for 2 consecutive hours after urethral catheterization
6. Recent episode of gross haematuria
7. Blood creatinine level  $> 150$   $\mu\text{mol/L}$
8. Eligible patient refuses to join the pathway

Eligible patients are all recruited for the clinical pathway

## (III) Methodology (2)

1 of 1

國際前列腺症狀評估分表  
International Prostate Symptom Score (IPSS)

姓名: \_\_\_\_\_ 日期: \_\_\_\_\_

問題	無	一	二	三	四	五
1. 排尿不適 在過去一個月內，你是否有經常有尿結尿困難的感覺？	0	1	2	3	4	5
2. 尿頻 在過去一個月內，你是否有經常在排尿後兩小時內又要小便？	0	1	2	3	4	5
3. 尿急感 在過去一個月內，你是否有經常在排尿時尿急感？	0	1	2	3	4	5
4. 尿急 在過去一個月內，你是否有經常感到「忍尿」有困難？	0	1	2	3	4	5
5. 尿流無力 在過去一個月內，你是否有經常有尿流細弱的情況？	0	1	2	3	4	5
6. 尿流斷斷續續 在過去一個月內，你是否有經常需要用力才能開始排尿？	0	1	2	3	4	5

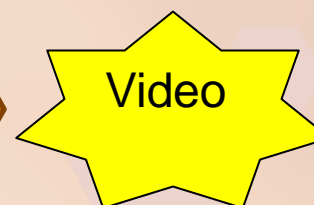
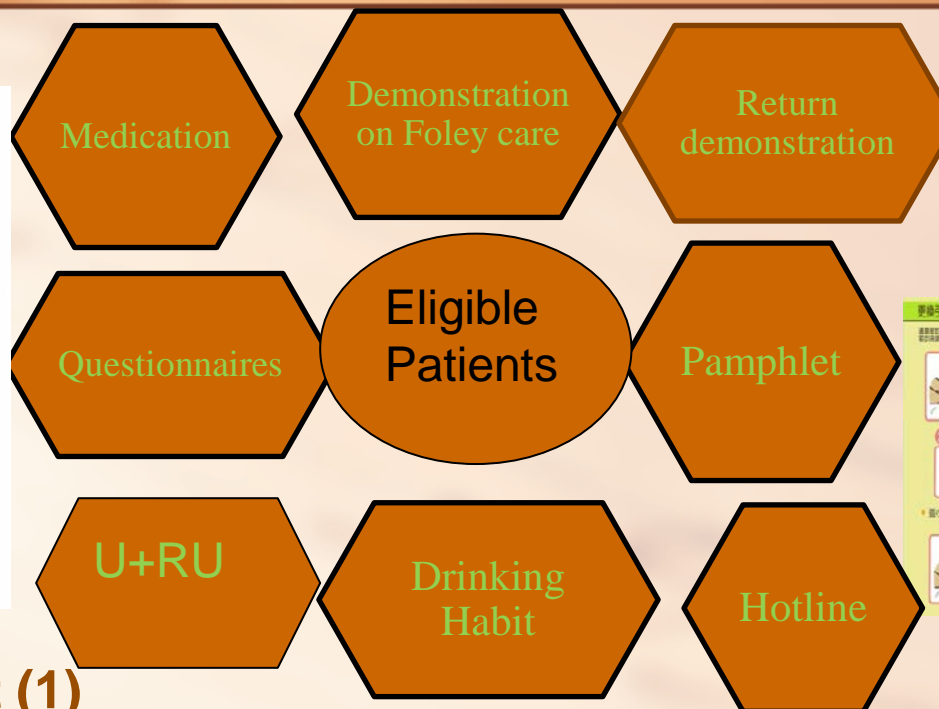
IPSS 總得分: \_\_\_\_\_

總得分結果: 0-7 分爲輕度症狀; 8-19 分爲中度症狀; 20-35 分爲重度症狀。

總得分	輕	中	重	非常重	極重
0-7	0	1	2	3	4

約20%現在已尿通暢，你覺得今後的生活質量如何？

好	好	中	差	非常差	極差
0	1	2	3	4	5



## (IV) Result (1)

- Total 163 eligible patients were recruited during the period of Jan 2013 to Dec 2015
- Mean age: **72.1 ±8.5** years

Location	Median length of stay (number of hours per patient)	Cost (HK\$) per patient
Urology Centre	5	60 (by patient)+ 1,050 (subsidy by HKSAR)
Ward	60	350 (by patient) + 13,690 (subsidy by HKSAR)



## (IV) Result (2)

- The mean IPSS score:  $16.7 \pm 8.9$  (moderately symptomatic)
- The mean QoL score:  $3.4 \pm 1.4$  (mixed feelings)
- Among 33 % failed TWOC, there were 46 patients (85.2%) had **TURP** done

### Trial without catheter (TWOC)



## (V) Conclusion

- Significantly relieve the financial burden (↓↓↓ **13 times**) on our hospital and government
- **67 %** patients could successfully trial without catheter
- **85.2 %** patients who failed TWOC had fast track surgery (**TURP**) done after recruited in this clinical pathway



Thank You!