

Promotion of Pain as Fifth Vital Sign and Implementation of Pain Management Protocols Improve Post-operative Pain Management in NTWC

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Background

- "Cross-section Audit on Post-operative Pain Management in 2008" revealed that 77% of patients after surgery without Acute Pain Service experienced moderate to severe pain.
- Only 46% of patient were satisfied with postoperative pain control.





Root Cause Analysis of the Barriers to effective Post-operative Pain Management

- Inadequate pain assessment
- Inappropriate pain assessment tools
- Inadequate staff education
- Inappropriate use of analgesics
- Inadequate Patient education



Cluster Pain Management Committee 2009

- Promote Pain as the Fifth vital sign.
- Initial & regular pain assessment.
- Standardize pain assessment tools
- Departmental (SUR, O&T, GYN) pain management protocol since 2010.
- Staff training and education on pain management.
- Pain management leaflet for patients.
- Cluster webpage for useful information and resources in pain management.



Achievement

Demographic data	2008	2012
No. of patient recruited	60	85
Patient's mean age	47	51
Gender of patients	31.7%	56.5%
Clinical outcomes comparison between Audits result in 2008 and 2012		
Regular pain assessment by ward nurses (p $<$ 0.01)	62%	98%↑
Pain reassessment after analgesics (p<0.01)	3%	52 %↑
Use of Numerical Rating Scale (p<0.001)	11%	59%↑
Provision of pain pamphlet for patient education (p=0.16)	48%	59%
Analgesic-related side effects (p=0.014)	40%	21%↓
Patients ever having moderate to severe pain (p=0.018)	77%	58%↓
Overall, patients feel very satisfied about the pain treatment (p=0.024)	46%	64%↑

Paired student t-test and Chi-squared test (P<0.05)





Other Changes ...

- Opioids carrying unsafe profiles are discouraged
 - Use of Pethidine was reduced by 73% in wards
 - Dextropropoxyphene was eliminated





Conclusion



- Taking pain as fifth vital sign improves pain assessment.
- Implementation of pain management protocols lead to safer and more effective pain management.
- Better pain assessment and pain management improve patient satisfaction.

Way Forward ...

- Increase pain reassessment after medication administration.
- Promote the use of pamphlet for patient education.
- Promote the use of non-pharmacological intervention.
- Launch pain resource recognition program for nurse to strengthen pain education.



Thank you



http://ntwc.home/pain/membership.htm

