

# Medication Safety Enhancement Program of an Extended Care Hospital

In the Administration of Medication (AOM) the important elements that require utmost attention are precise prescription, right drugs, correct dosage, route and time of administration and patient identification.

The high episode of the Medication Incident (MI) experienced in hospitals is mainly caused by human error, inattentiveness or negligence which can be prevented. We set up a team including Pharmacist, Medical Officers, Ward Manager, Nursing Officers, Registered Nurse, Enrolled Nurse and also the Supporting Staff (Care-related) to develop a Medication

> Safety Enhancement Program (MSEP) aiming to reduce MI. Through the active involvement of staff in training and continuous updating and auditing together with the purchase of modernized medication carts with individual drawer and clear labeling, the program was well received and successfully implemented.



We started the pilot run of MSEP in O & T Female Ward in mid June, 2007, and then expanded to all Wards (M & G Wards) in

January, 2008. The MI rate, which was monitored closely with the accumulated data reported on a monthly basis, was chosen as an indicator to measure the success of MSEP. The implementation of the program has not only minimized the chaos during AOM but also created an early detection of potential errors alleviating avoidable MI.

- 1) Ensure patient safety by reduction of MI.
- 2) Enhance service quality by Medication Order Entry (MOE) for early detection of potential MI.
- 3) Implement risk management through the Advanced Incident Reporting System (AIRS).
- 4) Promote professional excellence as indicated by frequency of complaint.

1) A trial run was conducted first in the O&T female ward to test the logistics of MSEP before it was introduced to all Wards of the hospital.

2) Staff Training and Development was initiated to enrich and equip nurses with the knowledge of medication by holding seminars periodically with invited quest speakers. Medical Officers. Pharmacist and Senior Nurse.

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- 3) Modern medication carts with clear labeling for individual patient and easy retrieval of medication were procured to replace the old trolley or
- 4) Implementation of the No Interruption Policy (NIP) was a crucial initiative aiming to minimize distractions during AOM procedure (Fig. 1; Fig.2). Other supporting staff will be assigned to assist patients and relatives during AOM. Further actions would be taken by the Team Nurse after AOM should the problem could not be resolved.
- 5) Reports of MI by AIRS would be reviewed and discussion in the Quarterly Drug & Therapeutic Committee Meeting serving as a Safety Surveillance System. Recommendations would be made to improve and prevent future MI recurrent.
- 6) Regular Competence Assurance Program on AOM was conducted to ensure and maintain the competence of nurses on AOM as a continuous quality improvement measure.

1) Medication Incident (MI) Rate: Records showed the annual MI (in-patient) was significantly reduced from 14.6% ± 5.0 cases prior to the implementation of the MSEP to 5.0% ± 0.0 cases after the implementation (Fig.3). Overall, a high compliance rate to NIP was observed and nurses' perceptions towards the NIP were positive (out-patient).

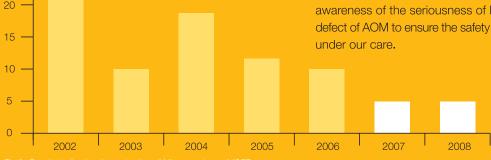




- 2) Drug related Nursing Forum attendance and perception: We organized a series of seminars on different topics related to medication and invited Medical Officers. Pharmacist and Senior Nurse to speak on topics like Anticoagulant, DM drugs update, special consideration of pharmacotherapy in geriatrics, Drug-drug interactions and 3 Checks/5 Rights rules on AOM. Over 100 nurses had attended and participated enthusiastically in these seminars (Fig.4).
- 3) Competence Assurance Program on AOM: Regular guizzes on administration of medication or related issues were conducted and completed by all ranks of nurses before shift handover. These included calculation of dosage, drugs knowledge on their specific characteristics and drug interactions. There

- were 59 nurses (NO, RN and EN) participated in the test and greater than 90% achieved full score. Nursing Officers would discuss with staff after the test and disseminated the right answer of the test.
- 4) Complaint Rate: Even though additional inconvenience was imposed on the patients and their relatives during the NIP, the number of complaint received in 2008 was reduced by a third of that in

Through a multidisciplinary effort and involvement a positive outcome in reducing the number of MI has been achieved after the implementation of MSEP. An effective and efficient communications among stuff of various disciplines is an important factor for the successful implementation and accomplishment of MSEP. The hospital management is urged to divert resources to prevent avoidable MI and with concerted effort to coordinate different activities aiming to arouse awareness of the seriousness of MI and achieve zero defect of AOM to ensure the safety of patients entrusted



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隨著新學年的開始,社會人士對新高中3-3-4學制都表示十分關注。根據 新高中課程大綱,「其他學習經歷」是三個組成部分之一,而「社會服務 (Community Service)」更是五種基要學習經歷的其中一種,以培養學生 勇於承擔的精神和責任感,達致全人發展的目標。香港正面對人口老化, 安老服務需求大增,更需要大量的資源配套以迎合服務的需要。安老院舍 收容體弱無依的長者,他們大多數是自理及活動能力較低,身心靈各方面 都需要多關顧,而3-3-4學制下高中生所提供的社會服務,有助於填補這個 空隙,學生們多探訪、提供服務予長者及對他們送上關懷,與長者多溝通 及分享生活經驗,不但能促進代際間的關愛共融,更有助學生的人生體驗 及待人處事技巧,達致社會和諧,加強社會資本,值得喝采! //草









The Nethersole Nursing Practice Research Uni-

# Promoting Excellence in Elderly People Care

### Background and Establishmen

The need for evidence-based practice and the utilization of research findings in nursing practice is becoming recognized both at the national and international levels. Globally, nursing leaders constantly exploring for innovative nursing practice, which aims to bring the fruits of research into actual practice in order to improve the quality, effectiveness, and safety of healthcare delivery (Rogers, 2009). This practice motivates nurses to perform their roles in a responsible, accountable, and professional manner (Mantzoukas, 2008). In the United Kingdom and Australia, nursing practice research units have been established to integrate and expand the quality of services within hospitals (Royal Adelaide Hospital, 2001). This kind of unit helps put forward clinical nursing leadership and promote research roles (Christian & Norman, 1998). It also provides support to nurses in terms of understanding and applying nursing research findings in an appropriate way (Martin, Bowman, Knight, & Thompson, 1998).

The collaboration between clinical and academic nurses has been viewed as a necessary step forward in narrowing the gap between knowledge and practice (Gillibrand, Burton, and Watkins, 2003). It is also important in developing a close clinical network among clinicians for nursing research. In addition, nursing practice development is a continuous process of improvement towards increased effectiveness in patient-centered care (McCormack & Garbett, 2003), which requires ongoing research work with practicing nurses and identification of nurses\*practice development roles. Thus, a nursing practice unit is necessary in promoting an evidence-based research culture within the nursing profession and organization, and it should preferably be established through the collaboration and participation of clinical colleagues and academic professionals.

Hong Kong is now facing a pressing concern in terms of its increasingly aging population. In order to promote quality and safety in the care of elderly patients, there is therefore an urgent need to develop innovation and excellence for their care in local health care settings. Towards this goal, the Nethersole Nursing Practice Research Unit (NNPRU) has been a part of the geriatric unit of United Christian Hospital since 2006. The Chinese University of Hong Kong and the

United Christian Hospital had worked together for the establishment of this researchbased nursing practice unit, which is supported by th

based nursing practice unit,
which is supported by the
Nethersole Endowment Fund. This
unit aims to promote excellence in nursing practice
through education, research, and the development
of innovative nursing practice and care for elderly
patients and their carers. Specifically, it has four main
objectives:

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The Nethersole Nursing Practice

The Nethersole School of Nursing
The Chinese University o

and

- To develop excellent nursing practices in geriatric in-patient settings through high-quality nursing research
- To provide development opportunities for innovative nursing practice
- To strengthen the interface between academic and clinical settings and provide nursing staff with a mechanism to enhance their expertise in gerontological nursing and research
- To provide student nurses with opportunities to learn the development and application of research in clinical practice, with a particular focus on gerontological rehabilitation

### Our Work

To achieve the aforementioned unit objectives, the scope of services spans three main areas: (1) innovative clinical research, (2) evidence-based nursing practice, and (3) contemporary nursing education. The fist area is the promotion of innovative clinical research. NNPRU is the first "model unit" of its kind in Hong

Kong, which designs and tests innovations in nursing practice, including clinical protocols, clinical pathways, and clinical technological and resource innovations that could be implemented, disseminated, and evaluated in other health care settings in Hong Kong. In relation to research, the unit aims

relation to research, the unit aims to develop high-quality research agenda which are useful



and relevant to direct patient care. The research will involve other disciplines within the health care team, including family caregivers as appropriate. The research focus of the unit is elderly patients\*basic care issues. In the past two years, two evidence-based nursing care protocols have been developed to improve older patients\*foot and toenail health as well as oral health. The results of both projects have been disseminated in both local and overseas nursing conferences and journals.

The second area is the implementation of evidencebased practice. Nurses in NNPRU team up with ward nurses to provide patient care in the geriatric unit and to promote the culture of putting evidence-based nursing practice into action and collaborative work with the health care team. Together, they strive to impact on elderly people care and work closely with the multidisciplinary team to advance basic nursing practice. Recently, NNPRU published a health promotion booklet on elderly people\* foot and toenail care, which was developed in conjunction with the podiatry department of the United Christian Hospital. Ward nurses found the booklet very useful, practical, and tailored to their needs. In addition, the expansion of nursing role in advanced foot and toenail assessment and management was well received by the patients and their family members.

The third area is the dissemination of contemporary nursing education. The unit serves as an educational venue where undergraduate nursing students are provided with the opportunity to develop their clinical skills, integrate theories of aging with clinical practice, and expand their understanding of nurses' role in gerontological care. NNPRU also holds continuous nursing education forums for nursing staff and shares current and updated best practices in gerontological nursing in regular meetings.

### Future Direction

In the past, NNPRU promoted a multifaceted function within the field of gerontological nursing. Through intra- and inter- disciplinary collaborations in the United Christian Hospital, innovative research was developed, evidence-based practice was implemented, and student clinical learning and staff educational activities were facilitated. NNPRU is thus pivotal in enhancing awareness and providing a model framework for a research-based nurse-led unit in a hospital setting. This model of care can contribute to the nurturing and sustaining of an organizational culture

of evidence-based nursing. NNPRU will continue to promote nursing research, practice, and education on the basic care of the older people.

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# What are Gerontological Nurses Doing in Caring

Urinary tract infection (UTI) is a complex and significant infection affecting frail older patients (Frerick, 2004). The condition is aggravated in older patients as they have a higher incidence of incontinence, fluid imbalance and immobility (Arbique, 2003). Several studies have indicated that UTI accounts for 50% of the total nosocomial infections and affects an estimated number of 600,000 patients per year (Eriksen et al., 2004). Furthermore, UTI becomes more difficult to manage when it is recurrent.

Indeed, managing UTI among older patients is regarded as a complex problem in terms of the approach to diagnosis, treatment and prevention (Yoshikawa et al., 1996). Against the challenges of managing this emerging problem, there is still a perception among nurses that UTI is a medical as opposed to a nursing concern. For instance, a misperceived 'effective' treatment option is to medically intervene and use antibiotics. With no strong evidence of a lowered recurrent rate from clinical trial studies (Harding et al., 2003) and the emergence of drug-resistance issues, this treatment choice is now used with caution (Miller and Tang, 2004). Regarding choices of nursing strategies, there is a lack of research examining how nurses actually manage patients\*UTI problems (Brown, 2002) and no research identified targeted at cognitively frail older patients.

Currently, the practice of managing UTI in the local setting is challenged by the lack of guidelines given to nurses to manage this client group. Developed by the Center for Disease Control in 1989 (Brown, 2002), the 'Guidelines on prevention of catheter-associated UTI' is used in the clinical settings. However, such guidelines are of little relevance to frail older patients in infirmary care settings; many of whom do not use indwelling catheters but still suffer from UTI. These patients suffer from multiple chronic diseases, are highly dependent and immuno-compromised, and predisposing themselves to infections. To address these issues, this paper describes a qualitative research study that interviewed hospital-based infirmary nurses' to solicit experiences of caring for non-catheterized older infirmed patients who had suffered from recurrent UTI, and strategies adopted to prevent and manage the problem.

The Nethersole School of Nursing. When managing recurrent UTI he Chinese University of Hong Kong of non-catheterized older patients, nurses described the need to promptly recognize the UTI symptoms, and to know the causes of the symptoms before administering any care. These formed the basis for deciding whether the patient's urinary condition should be managed by nurses themselves, or be referred to the physician for medical treatment. Based on this initial judgment, subsequent non-invasive measures perceived by nurses to be effective were undertaken to manage the non-medically intervened problem. Ways to improve nurses' existing roles and work practices to better manage recurrent UTI of non-catheterized older patients were also identified. The interview data were categorized into three main themes:

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Lisa P.L. LOW

Nurses believed they had to be proactive in the early detection and recognition of possible UTI symptoms. This was achieved by:

- Assessing their own abilities to identify clinical features of patients with urinary infection.
- Promptly recognizing patients' UTI symptoms.
- Knowing the causes of patient's symptoms before administrating care.
- Making treatment decision: manage patients UTI by themselves, or refer to the doctor.
- In-built daily practice to meticulously assess and observe for presence of 'typical' UTI symptoms so prompt nursing measures can be given to rectify the patients' condition.
- Be 'on guard' usually during routine rounds to
- 'typical UTI' symptoms in infirmed patients (many of whom were unable to speak): e.g. observe facial and uncomfortable expressions.
- 'atypical' (asymptomatic) symptoms which had potentials to develop into UTI, e.g. abnormal clinical observations were possible indications of UTI during its initial onset.
- Assessing whether causes of UTI are irreversible or reversible.



Based on the symptoms identified and the reversibility of the situation, nurses spoke of implementing measures they perceived to be effective in managing UTI. Promoting fluid intake was a straightforward measure to take and an agreed principle which worked in most clinical situations. Promoting hygiene was also cited as an effective measure.

- urination) for all patients.
- Give additional fluids according to dietary/tube-fed needs of each patient.
- Give extra fluids as a preventive measure and ënot waiting to see what will happeni to deal with suspected and known cases.
- Offer alternative fluid choices, e.g. cranberry juice was by experience thought to prevent recurrence.

- Increase fluid intake (to maintain Pay careful attention to basic
  - - Perform "correct" wiping method during diapers rounds and avoid using solvents/agents other than tap water.
    - Reiterate acceptable practices to encourage the maintenance of clean hand hygiene during incontinent care.

Nurses' perceptions of how they had developed knowledge and skills to support UTI patients were identified when they reflected on their existing roles and work practices.

- Irrespective of years of experience, nurses should recognize their responsibilities for performing common nursing roles (ie. act as direct caregivers and be directly involved in assessing patient' conditions, implementing and monitoring care, and evaluating outcomes).
- Nurses should play an educating role and provide practical information to the cognitively competent patients and their families to help control for risk factors, where appropriate.
- Develop leading/collaborating roles and form working relationships with other staff

- nursing procedures (e.g. proper hand hygiene between patients, correct wiping of patientsi genitals).
- Uphold infection control principles and not induce cross-infection risks (e.g. discourage bacteria to migrate from periurethral colonization into patientsí urinary tracts, especially during incontinence care of cognitively frail patients who were unable to eliminate independently).

This study revealed the experiences of what measures infirmary nurses used to manage recurrent UTI in noncatheterized frail and cognitively impaired patients. Unlike other clinical settings, infirmary nurses focused on the value of delivering basic nursing care to manage this emergent and overlooked clinical problem. For asymptomatic cases (which are not medically treated), studies suggest that patients should receive continuous 'daily management' (e.g. maintaining personal hygiene and fluid intake). Ignoring asymptomatic symptoms could bring adverse consequences later, as evidenced by over one half of older patients presented with asymptomatic bacteria (Stockert, 1999). Thus, there is a scope for nurses to develop their skills in 'asymptomatic symptoms identification' (of previously infected patients). The challenge ahead is to design interventions to compare the effects of different nursing measures (or combination of measures) and determine which one is most effective in managing this clinical issue.

- e.g. educating, supervising and monitoring the

- e.g. maintaining close collaboration and

communication with physicians, depended on

nurses' previous experiences of managing UTI

in the clinical situations, and whether the

measures used had worked for their patients.

• Be explicit about the effects and limitations of the

choices of nursing measures to use and when to

get medical consultation to deal with the situation.

as some staff lacked confidence in their nursing

roles because of limited knowledge of the topic

- e.g. foundational nurse training covered

'encouraging fluid intake, correct wiping method

and hand hygiene' which were not unique to

- After RN qualification, there were no specific

topics/sessions provided to train them to be

knowledgeable in caring for UTI patients who

• Promote staff competence in handling UTI patients,

work performance of HCA.

and working experience.

UTI patients.

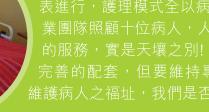
were non-vocal.





「臨終照顧」是近年來關注的議題,本年8月有機會拜訪加拿フ

吊機,以協助扶抱及減低工傷機會,房間的個人化照顧亦十分





# Forthcoming Events of HKNAG 2010 (Tentative programme)

22 January 2010 - Common Eye Problems of Older People and Practical Implications

April - HKNAG 4th Scientific Meeting cum 13th AGM

June - Evidenced-based Oral Care Protocol

October - Legal Aspects of Older people

# Other Forthcoming Events Conferences / Symposium: 會議 / 座談會

28/11/2009 Hong Kong Association of Gerontology The 17th Annual Congress of Gerontology Langham Hotel, Hong Kong www.hkag.org

13-15/12/2009 18th WFN World Congress on Parkinson's Disease & Related Disorders - WFN 2009 Miami Beach, Florida, USA

13-16/10/2010 7th World Stroke Congress, World Stroke Organization (WSO) Seoul, Korea www.kenes.com/stroke

28-30/4/2010 4th International Social and Applied Gerontology Symposium in Turkey Antalya, Turkey www.gerontoloji2010.com

# 歡迎投稿

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# Chairperson's Report 主席的話



# 各位會員:

大家好!首先我想在這裡衷心多謝大家出席今年四月廿五日舉行之本會週年 大會暨第三屆科學研討會。當日出席會員人數近百人,場面熱鬧,討論

我們將刊登三篇與老年學護理實務工作有關的報告及文章於今期會訊。其題 目分別為:

- 1) Medication Safety Enhancement Program of an Extended Care Hospital
- 2) Promoting Excellence in Elderly People Care
- 3) What are Gerontological Nurses Doing in Caring for Non-Catheterized Older Infirm Patients with Recurrent U.T.I?

本會近年來積極參與成立「香港護理專科學院」的籌備工作。其中就「香港 護理專科學院」內的「香港老年學護理專科學院」的成立及其有關之基礎準 備措施,更是本會近月工作重點之一。當我們有進一步進展時,定當在這會 訊與大家分享! 謹祝大家身體健康、工作順利!

源志敏

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Forthcoming events



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