





An evaluation of palliative care nurse prescribing: A mixed methods study in Uganda

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Background

- Specially trained PC nurses in Uganda have been able to prescribe since 2004
- Thus increasing access to PC
- Of Global Interest but no full evaluation to determine effectiveness of nurses role.





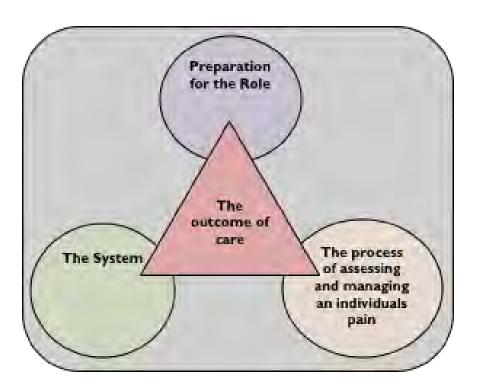








Conceptual Framework



- The preparation of the nurses for the role.
- The actual process of assessing and managing the patients' pain, including the prescription of oral morphine and patient outcomes.
- The system in which the nurses are working.











Ethical Approval













1: Preparation of the nurses for the role

- How are the nurses being prepared for the role?
- Is it adequate?
- Are there gaps?
- Could it be done differently?

- a) Semi-structured interviews
 - 12 nurses
 - 4 trainers
 - 1 MoH
- b) Agreement of core competencies
- c) Mapping of competencies / curriculum

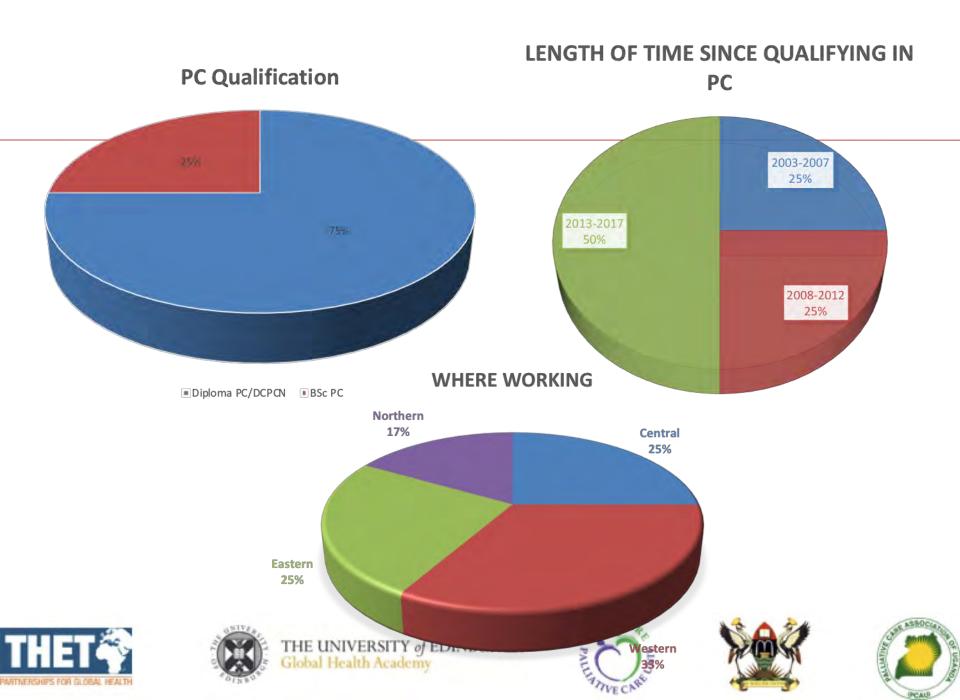












A Palliative Care Prescriber is someone who is legally permitted and has achieved and demonstrated the desired competencies for prescribing medications to those who have chronic, life limiting illness alongside other health care workers:

Domain	Competency	
Therapeutic relationship	 Use advanced communication skills to ensure that patients and carers are fully informed how to use morphine and other palliative care medication and their possible side effects to explain and demystify myths, fears and misconceptions about medication used in palliative care to ensure the unit of care is the patient including their family and carers supported by a genogram. Offer appropriate adherence support for patients and families in the various settings Explain use of appropriate charts (for example body charts and visual analogue charts) and medication records to patients and carers Use evidence based practice 	
Clinical Care	 Undertake comprehensive and holistic (physical, social, psychological, spiritual) assessment and management of pain and other symptoms Appreciate the WHO principles of chronic pain management including the use of opioids and adjuvant analgesics. Manage side effects and toxicity of all palliative care medication Reassess pain and follow up with appropriate management in regards to the effectiveness of any interventions Appreciate the importance and involve family and carers in patient care 	
Collaborative Practice	 Understand and demonstrate the role of appropriate consultation in referring patients with pain and symptoms including those who have reversible causes of pain and symptoms, require joint management, need specialist interventions and include information regarding referral pathways in and out of the community setting. Communicate and provide comprehensive feedback to other health care workers Collaborate professionally with involved clinical team(s) and ensure sharing of skills within a multiprofessional team, avoiding disempowering colleagues and ensuring the lines of clinical responsibility are respected. 	











Leadership	 Teach, supervise and mentor colleagues on pain and symptom management Identify good practice and disseminate results to colleagues and other stakeholders Plan and implement audits or research to ensure ongoing good practice Advocate for palliative care within and outside their organisation. 	
Professional Practice	 Understand the scope of their own prescribing responsibility in the context of shared clinical management Fully document the pain and symptom assessment and use assessment tools e.g. body charts, visual analogue scales and numerical rating scales, POS, genogram. Write prescription to comply with accepted legal requirements and clinical guidelines Ensure and support appropriately the validated morphine procurement process and identify their role in the process. 	











2: Evaluation of nurse prescribing

- Are the nurses following the process for prescribing appropriately?
- What are the outcomes of nurse prescribing (i.e. is the patients' pain controlled)?
- What are the challenges for nurse prescribers?

- a) Demographic form and self assessment re pain management
- b) 22 nurses completing assessment and care of up to 20 patients each on 3 occasions
- c) Administration of the APCA African POS
- d) Semi-structured interviews – 11 nurses



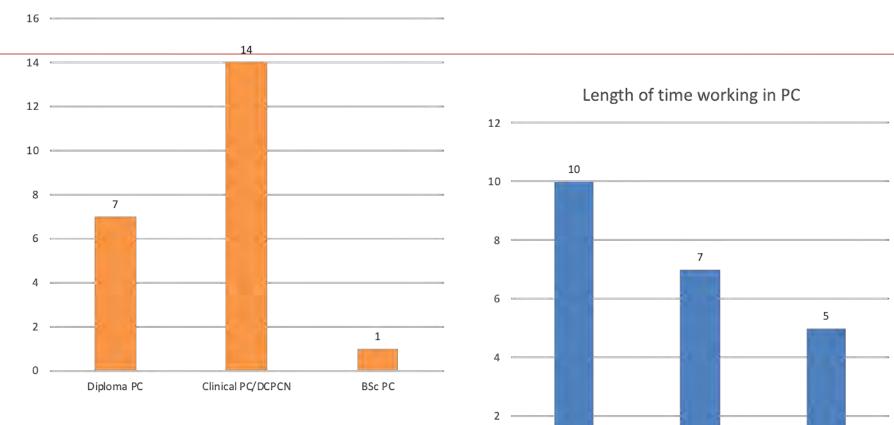








PC Qualifications



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0-5 years



6-10 y ears



11-15 years



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PROJECT 2: EVALUATION OF NURSE PRESCRIBING

Data Extraction Form

1.	Patient ID	
2.	Demographic Details	1 – partially completed
		2 – completed
		9 – Not completed
3.	Reason for Referral	1 - Pain and symptom control
		2 – Psychological support
		3 – End of life care
		4 – Other
		9 – Not completed
4.	Who were they referred by?	1 – Doctor
		2 – Nurse
		3 – Carer
		4 – Self
		5 - Other
		9 – Not completed
5.	Diagnosis	1 - Cancer
	2 lag.rooto	2 - HIV
		3 – Cancer and HIV
		4 – Other
		9 – Not completed
		p
6.	History	1 – Yes
		2 – No
7.	Presenting Symptoms	1 – Yes
	Symptoms Identified	2 – No
8.	Presenting Symptoms	1 – Yes
	Pain identified as a symptom	2 – No
9.	Presenting Symptoms	1 – Yes
5.	Symptoms scored	2 – Some, but not all
	5)ptons 500.02	9 – Not completed
10.	Medications:	1 – Yes
10.	Non-opioid	2 – No
	- 14011-001010	
11.		1 – Yes
	Adjuvant	2 – No
12.	Medications:	1 – Yes
	Opioid – morphine	2 – No
13.	Medications:	1 – Yes
	Opioid – other than morphine	2 – No
		1 – Yes
14.	Medications:	1 - res

PATIENT ASSESSMENT- INITIAL VISIT

Name PC No:	PC No:		
Age	Sex		
Date			
Seen by:	Driver on first visit:		
Place of Assessment:			
Nationality:	Tribe:		
Contact Telephone:	Languages:		
Residence (permanent):			
Temporarily living at:			
Caregiver Names/Relationship:	Contact tel:		
CVW Name/Number:	CVW Contact Tel:		
Other Agencies Involved, e.g. ARV provider, ca contact details)	ancer therapy provider (names and		
Referred by (Tick referral source and give add	ress below)		
Dr			
Nurse			
CVW			
Self			
Other			
Give name:			
Address:			
Contact no.			

Reasons for referral

Pain and symptom control
Psychological support
End of life care
Chemotherapy fundingOtherOther
History from: patient carer volunteers Other

Example of Analysis

Reason for Referral	Pain and Symptom Control – 93.3%
Who Referred	Doctor – 41.7% Nurse – 17.4% Self – 19.5%
History completed	97.0%
Presenting symptom	Pain – 75.5%
Medications on referral	Non-opioid – 26.4% Morphine – 29.7% Opioid other than morphine – 6.7% Adjuvants – 24.5%
Pain chart	Completed – 91.7%
Causes of pain	Identified – 88.9%
Examination findings	Present – 64%
Pain management plan with correct dosages of medications	Completed – 86.7%



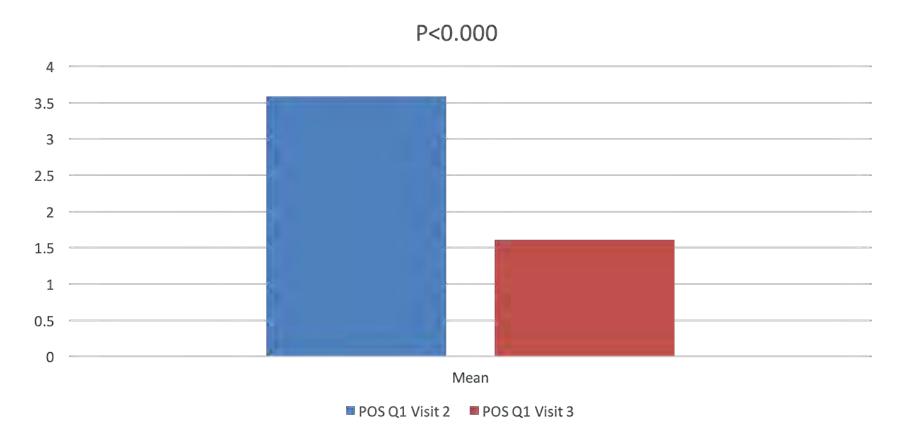








POS Q1: Please rate your pain during the last 3 days













3: Appraisal of the health system and context

- What is the system in which nurse prescribing is taking place?
- Is the system having an impact on nurse prescribing and if so, in what way?
- 10 Districts across Uganda
 - Patient and/or Caregiver
 - Senior Nurse PNO
 - Senior Hospital
 Administrator/ MD
 - Records Officer
 - Pharmacist
 - Palliative Care Nurses
 - Nurses











Analysis

- Variety of approaches used
- Quantitative e.g.:
 - Demographic data
 - POS Wilcoxin Rank Test for significance
 - Data extraction tools for nurse prescribing
- Qualitative e.g:
 - Coding of interviews
 - Agreement of competencies













Results:

- Nurses are trained and competent to prescribe
- Agreement of nurse competencies and routes to prescribing
- Some minor curriculum changes recommended
- Importance of mgs vs mls

- Themes Identified:
 - improvements to training,
 - supervision and mentorship,
 - competency,
 - boundaries of practice,
 - beliefs and system issues











Prescribing and outcomes data analysis demonstrates ability to:

- assess and manage pain - p<0.001
- give appropriate medications and reassess.

Appraisal showed:

- variability in access to medications with regular stock-outs,
- limited understanding of PC
- Opiophobia











Lancet Commission Report

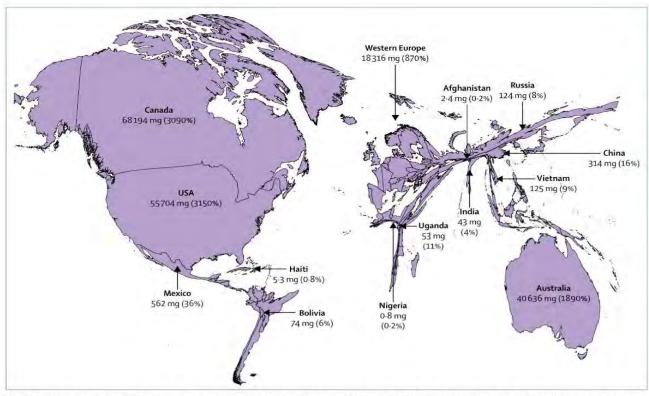


Figure 1: Distributed opioid morphine-equivalent (morphine in mg/patient in need of palliative care, average 2010-13), and estimated percentage of need that is met for the health conditions most associated with serious health-related suffering

Source: International Narcotics Control Board and WHO Global Health Estimates, 2015. See additional online material for methods.











- Showed resilience and determination in nurses to overcome challenges and improve access to PC.
- This study has national and international significance















- Downing Julia, Nabirye Elizabeth, Ojera Alex, Namwanga Rosemary, Katusabe Roselight, Dusabimana Mathias, Kalemba Kelet, Yayeri Biira, Appolo Orishaba, Batuli Mwazi, Komunda Charlotte, Nabukalu Rashidah, Mwesige Jane, Sekyondwa Margaret, Kasirye Margaret, Amoris Jane Okoth, Nandutu Edith, Acuda Wilson, Adong Dorothy, Luyirika Emmanuel, Namisango Eve, Kiyange Fatia, Kiwanuka R, Amandua J, Logan J, Haraldsdottir Erna, McGannon Michelle, Moback Berit, Leslie Claire, Denham Paula, Shadat Rosie, Grant Liz, and Leng Mhoira.
- Plus all those involved e.g. the nurses who took part in the evaluation







