Enhancing Practice 2022 Conference

20:20 Vision – Transforming Our Future Through Person-Centred Practices



WEDNESDAY 6 - FRIDAY 8 APRIL 2022 SAGE HOTEL WOLLONGONG, NSW AUSTRALIA

#enhancingpractice2022





Session objectives:

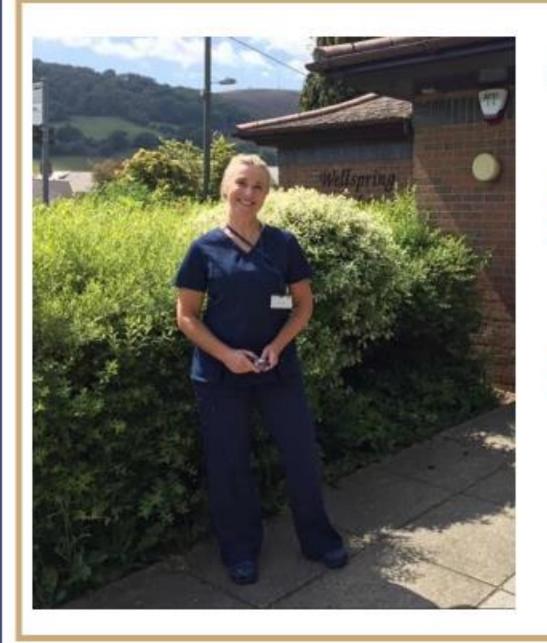
- The Welsh origins of the PCI
- The Australian ImPaCt study
- Implications for the future



The Patient Complexity Instrument (PCI)

Enhancing Practice 2022 Conference Wollongong, NSW, Australia April 2022

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Hello from Risca in sunny South Wales, UK. I would love to be in Wollongong with you today

Jenny Boak is kindly introducing this work, which has led to collaboration and further developments

Background

- Government and Wales' NHS policy-driven shift of health services away from hospital towards community care settings
- Changing health needs within the community-based patient population (said to be complex)
- The Welsh Government's aim for "nurses to be able to assess the risk of patients'
 deterioration", and the levels of acuity for community-based patients
- Acuity is defined as "the level of 'severity' of an illness/situation" AND "the measurement of the (intensity of) nursing care required by a patient"
- The investigation addressed district (community) nursing assessment of acuity for community-based patients with complex needs.
- To develop and validate an instrument to identify and measure complex need (or patient complexity) for community-based patients

The literature indicates that:

- District (community) nurses (DNs) adopt a holistic (or generalist) approach to patient care & support
- Little contemporary research has been undertaken to understand holistic DN assessment
- Multiple, complex factors can interplay to affect care for community-based patients
- Understanding and measuring complex patient need, or patient complexity, has important implications for many aspects of community-based services
- Complexity theory supports a proposition that linearity and predictability are incongruous in the context of a community-based patient's life and home situation
- Complexity theory offers a suitable framework to explore the health needs of community-based patients



This was an emergent, exploratory, sequential, mixed-methods research study ...

... to develop and validate a clinical instrument used by district (community) nurses to assess patient complexity



Stages of development and validation of a clinical instrument used by district (community) nurses to assess patient complexity

Instrument Development Stages	Method	Approach	
Theory and concept building		Qualitative	
		Conceptualisation, generating	
		visual maps of qualitative data	
2. Items development	Group Concept Mapping	Quantitative	
		Statistical tests, including	
Scale development		similarity matrix analysis,	
		multidimensional scaling,	
		hierarchical cluster analysis	
4. Psychometric Testing	Rasch Analysis	Quantitative	
		Item Response Theory	
		approach, using statistical	
		testing	



A definition of community-based patient complexity from a DN perspective (Thomas, 2017)

The interaction of factors in a patient's life, including biological, psychological, social, environmental and support systems, which requires a shift in an expectation of predictable outcomes.



Date	Patient Name	I.D
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	THE COMMUNITY-BASED PATIENT COMPLEXITY INSTRUMENT (V.1)									
	Engagement	Clinical	Social Contact	Family and Carer	Resources	Safety				
Score each column	identification and agreement of personalised care plan for and with this patient	Scale and recope of physical and psychological nursing needs	Support systems for this patient	Factors relating to key carers (usually family)	Any renources required to meet holistic needs and goals for this patient	How nafely the care will be delirered for this patient in the current environment				
5	This patient lacks capacity Or does not agree to engage in a shared care plan	This patient requires constant supervision and immediate access to runse intervention to avoid harm or sustain life	This patient is incluted & vulnerable to inmediate risk or home	The carer or family is isolated & vulnerable to immediate risk or ham. Or there is no carer	Iraninent crisis or failure to progress care plan, care plan in dispute Or resources not available	Potient safety is unachievable by romaining in this environment				
4	This patient has fluctuating capacity Or chooses not to engage in some aspects of a capaplan	This potient has changeable needs and requires successful supervision within a comprehensive plan of care	This patient has very limited family support, social connection or activities	There is corer or family strain.	Urgent referral (same day) to any multi- disciplinary/sector/ agency team or member, or specialist service	Patient safety is unpredictable by ornaining in this environment				
3	This patient has capacity but there is some patient difficulty with engaging in a shared care plan	This patient has established on-going need and requires scheduled nursing bean interventions	This patient has support, social contact or activities available within informal family or community	Carer or family coping atratogies are in place, including patient's dependents	Referral for any aspect of a multi-disciplinary/sector/ agency team or member	Environmental or other factors present difficulties for potient, caper or nume which might impact on patient safety				
2	This patient has capacity and agrees to engage with a suggested shared care plan	This patient has stable or predictable need and requires some rarring team intervention and support	This patient has regular family or social contact and support for daily activities	The carer or family has regular family or social contact and support	On-going nursing assessment, intervention & care planning	Minor factors from within the home or the external environment present easily manageable risks to patient safety				
1	There is full patient-led engagement with shared care plan	This patient is self-caring and requires minimal mursing team support	This potient is fully independent Or well supported by family or community	The caser or family is fully independent and requires minimal support Or there is no needfor caser support	Task-oriented, delagated nursing team case and support	There is no identifiable environmental or other apparent risk to the patient				

Jennifer Boak

Improving quality of care through nurses' assessment of complexity in older people receiving community-based care: The ImPaCt project



The ImPaCt Study

Research and practice gap

- Inconsistent approach to holistic detection of older patient complexity
- Most of literature focuses on nurse's workload rather than the older person's complexity

Research aim:

 To determine whether the PCI in addition to usual care enhances nurses' skill in detecting complexity and appropriate allocation of care for community dwelling patients aged 65 and over

The ImPaCt Study





Citation: Boak, J.; Blackberry, I.;

(Impact): A Study Protocol of a

Rasekaba, T. Improving Detection of

Client Complexity in the Community

Pragmatic Randomized Controlled

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Improving Detection of Client Complexity in the Community (Impact): A Study Protocol of a Pragmatic Randomized Controlled Trial

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Abstract: Background: Community-dwelling older clients are becoming increasingly complex. Detecting this complexity in clinical practice is limited, with greater reliance on community nurses' clinical judgment and skills. The lack of a consistent approach to complexity impacts the level of care and support for older clients to remain in their homes for longer. Objective: To examine the effectiveness of the Patient Complexity Instrument (PCI) in addition to nurses' clinical judgment to enhance detection of complexity, and subsequent older clients' resource allocation compared to usual nursing assessment. Design: A pragmatic randomized controlled trial will be conducted within a community nursing service in regional Victoria, Australia. Clients 65 years and over referred to the service who are eligible for Commonwealth Home Support Programme (CHSP) funding will be randomized into Control group: usual nursing assessment or Intervention group: usual nursing assessment plus the PCI. Nurse participants are Registered Nurses currently employed in the community nursing service. Results: This study will explore whether introducing the PCI in a community nursing service enhances detection of complexity and client care resource allocation compared to nurses' clinical judgment based on usual nursing assessment. Conclusion: This protocol outlines the study to enhance the detection of complexity by nurses delivering care for community-dwelling older people in the regional Australian context. The findings will inform the use of a standardized tool to detect complexity among community-dwelling older Australians.

Keywords: home nursing; aged; assessment; health care needs

1. Introduction

1.1. Global Ageing Population and the Implications

Countries around the world, including Australia, are faced with an increasing ageing population. Trending indicates that by 2050, "one person in every five will be over 60 years of age or older" [1]. This demographic shift impacts on the number of people needing support to remain at home. As people age, if their choice is to stay at home, many will require more support. Their needs may increase with varying degrees of complexity depending on their allments, social situation, access to resources and safety of their environment [2]. Therefore, along with the increasing number of people needing support, their care needs are more complex.

As new models for chronic conditions and post-discharge care options increase, people are not staying in hospital for as long [3–6]. People are being discharged with a higher level of care required, with a consequence of increasing complexity of the community-dwelling older people [7–10] and increased reliance on caregivers for support [11]. Huber et al. recognized that the increasing prevalence of multimorbidity is also impacting care in the community [10]. The flow-on effect is increasing workload pressure on the community

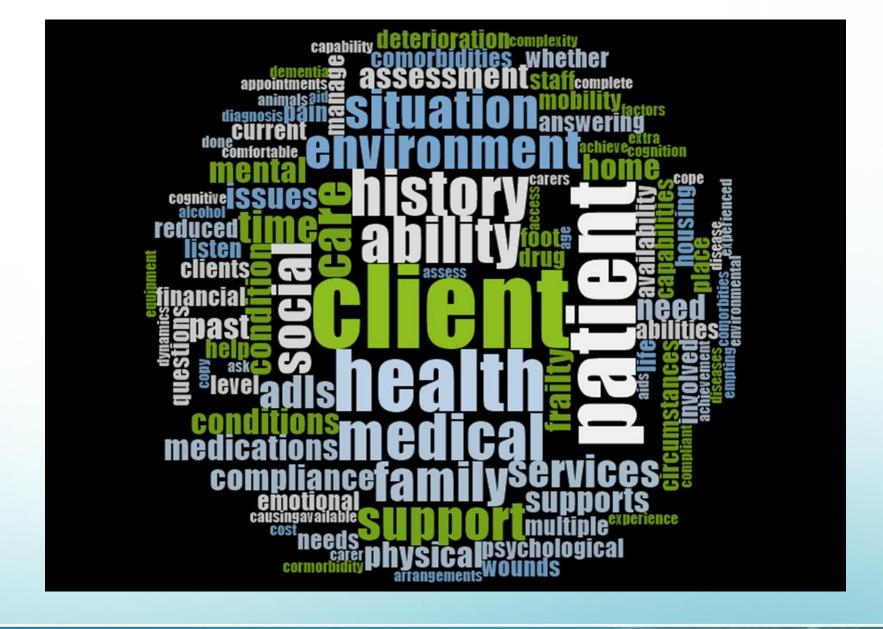
Methods Protoc. 2021, 4, 70. https://doi.org/10.3390/mps4040070

https://www.mdpi.com/journal/mps

- The primary outcome of this study was to examine whether the addition of the PCI to usual assessment enhanced detection of patient complexity rating.
- The first secondary outcome was to explore the clinical-care allocated as a result of the rating of complexity. Nursing care included medication support, wound care, referrals and liaison, hygiene, or other.
- The second secondary outcome was the time in minutes allocated to clinical-care based on the rating of complexity.

 How do nurses and allied health professionals in regional communities detect and manage complexity currently?

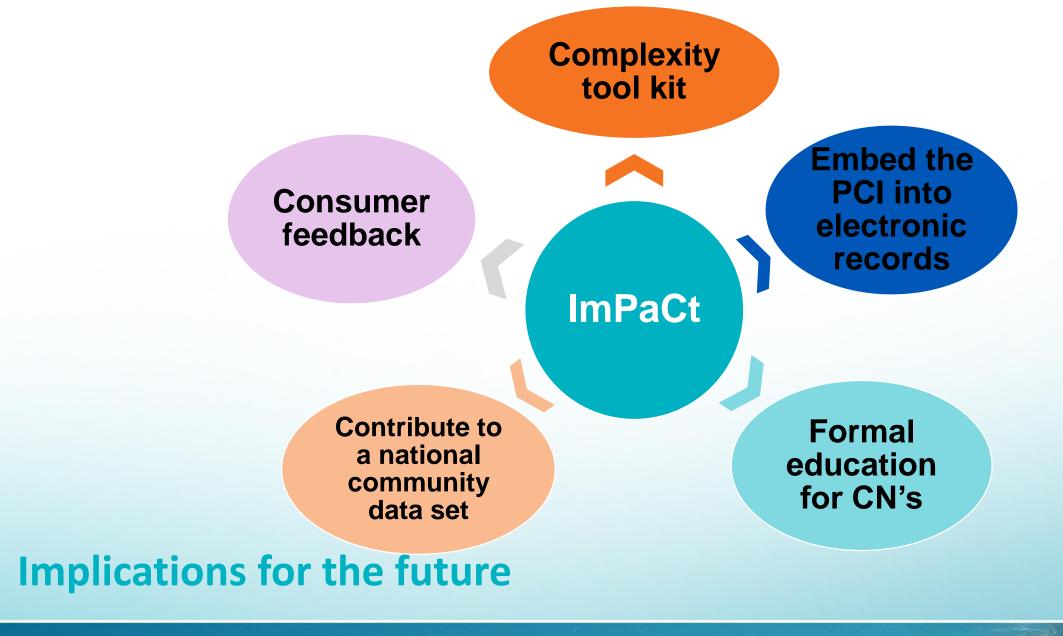
 How can the PCI be implemented to support assessment of complex older people living in the community?



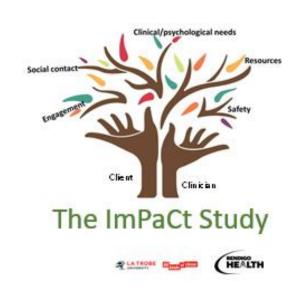
A clinical
Decision
Support tool

Use the PCI to engage the older person

Communicating across the healthcare team











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