

CKD Patient-Reported Outcomes

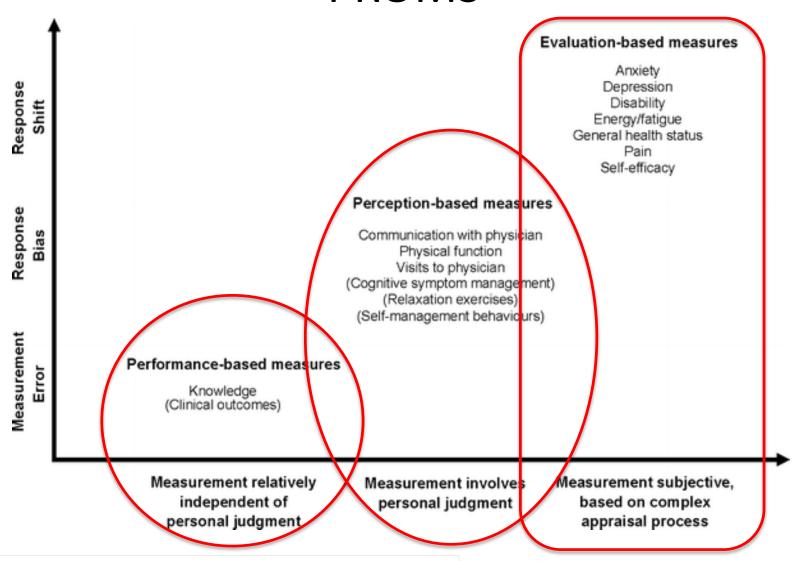
Prof Ann Bonner

PROM/PREM



- Come directly from patients about how they function or feel in relation to a health condition and its therapy¹
- Often greatest importance to patients
 - Knowledge
 - Symptoms
 - Behaviours (adherence, self-management)
 - Abilities (functional status)
 - General perceptions or feelings of well-being (quality of life)
 - Satisfaction with treatment
- Collected using an instrument
 - generic, disease-specific, condition-specific
- Increasing recognition/use in clinical nephrology research^{2,3,4}
 - SONG (Standardised Outcomes in Nephrology)
- 1. Frank et al. JAMA, 2014;312:1513-1514
- 2. Cukor et al. CJASN, 2016;11:1703-1712.
- 3. Evangeledis et al. AJKN, DOI: org/10.1053/j.ajkd.2016.11.029
- Tong et al CJASN, 2017;12:454-466

PROMS



Nolte et al (2013) Quality of Life Research, 22(7), 1655-1664



CKD PROMs

- Performance-based
 - CKD knowledge^
- Perception-based
 - CKD self-management behaviours[^]
 - Physical activity^
 - Decision-making^
 - Telehealth#
 - Health literacy^
- Evaluation-based
 - CKD symptoms^{^#}
 - Health-related quality of life^
 - Chronic disease self-efficacy
 - Patient satisfaction^#

^existing (tend to be recently developed)
#investigator developed

SCKD.CRE NHMRC Chronic Kidney Disease Centre of Research Excellence

Studies

- Practice Improvement streams
 - Primary and community models of care
 - Frail, complex and elderly patient with CKD
- Designs
 - Randomised control trial
 - Pre/post intervention (Kathryn Havas)
 - Cohort
 - Cross-sectional
 - Translation/validation (Arabic, Vietnamese)
 - Mixed methods

CKD Symptoms

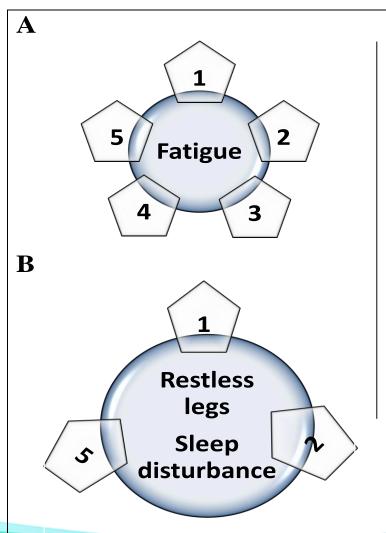


- CKD studies limited
 - Small number of symptoms and their prevalence
 - Mostly haemodialysis population (个 in kidney supportive care)
- Symptoms have multidimensional features
 - 1) Occurrence
 - 2) Severity
 - 3) Distress
 - 4) Frequency
- When a clinician focuses only on highly prevalent symptoms, other significant (frequent, distressing or severe) symptoms remain <u>under-recognised</u> and <u>unrelieved</u>
- Assessment of <u>all symptom dimensions</u> helps to estimate the total symptom burden

	Palliative care Outcome Scale-Symptoms – Renal (iPOS-R)
No. of symptoms	17 + 3 free fields
Ideal population	CKD stage 5 (KSC) - only
Occurrence	
Distress	√ (0-4)
Severity	×
Frequency	×
Benefits	 Simple Quick Easy to use Clinical application
Limitations	Tested only in KSCLimited dimension

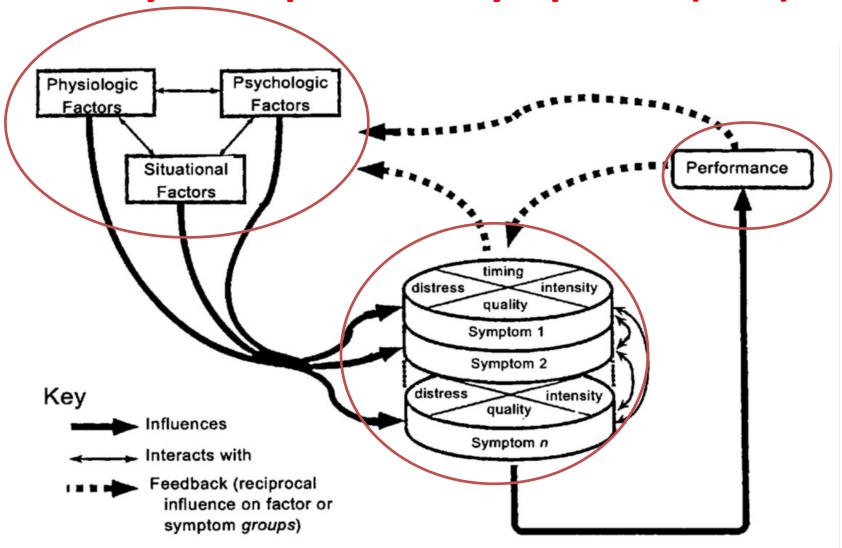
CKD Symptom Clusters

Almutary H, Douglas C & Bonner A. 2016. Multidimensional symptom clusters: An exploratory factor analysis in advanced chronic kidney disease. *J Adv Nurs*, 72(10):2389-2400.

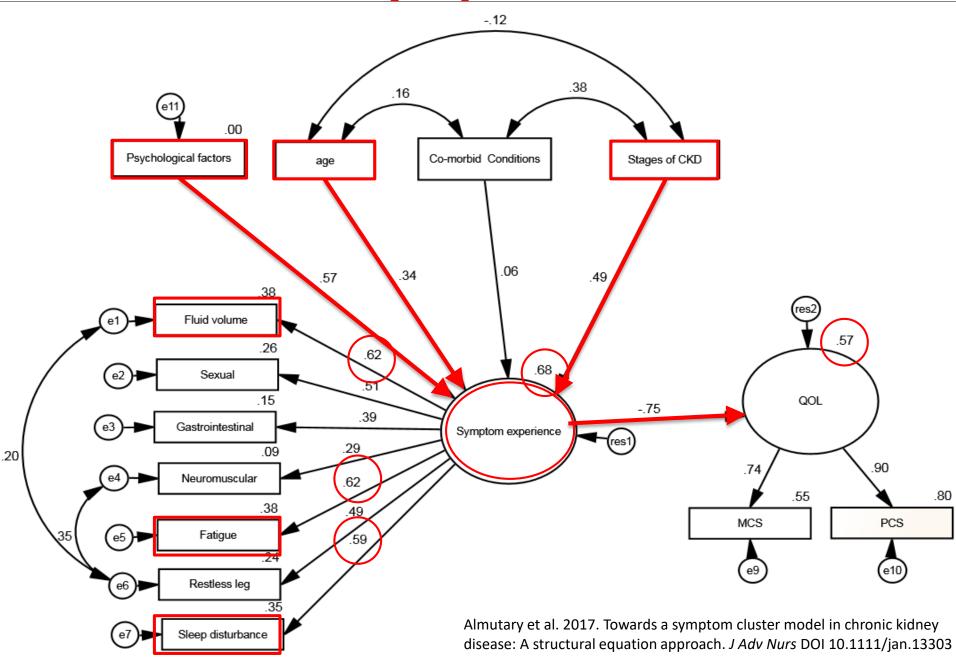


- 1. Fluid volume symptom cluster
- 2. Neuromuscular symptom cluster
- 3. Gastrointestinal symptom cluster
- 4. Sexual symptom cluster
- 5. Psychological symptom cluster

Theory of Unpleasant Symptoms (TUS)



CKD Symptom Model





Dissemination

- Publications (see also QUT ePrints https://eprints.qut.edu.au/)
 - Journal articles + manuscripts under review
 - Theses
- Conferences
 - National
 - International
- Many studies in progress

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A/Prof Katrina Campbell^
Mr Jaimon Kelly



^Also QLD government