

OHE Lunchtime Seminar

Janel Hanmer

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**An Overview of the US National Institutes of Health (NIH) Patient
Reported Outcomes Measurement Information System (PROMIS®) and
the PROMIS-Preference (PROPr) Scoring System**

31th October 2018 12:00-2:00pm

**Marlborough Suite
St Ermin's Hotel, 2 Caxton St, Westminster, London SW1H 0QW**

A buffet lunch will be available from 12:00 noon.

The seminar will start promptly at 12:30 pm and finish promptly at 2:00 pm.

The EQ-5D, Health Utilities Index, SF-6D, and the Quality of Well-being Index are among the most widely used generic preference-based health-related quality of life measures. However, they each have some of the following limitations: (1) large proportions of the respondents scoring at the very top or very bottom of the scale in some populations of interest (i.e., ceiling effects in the very healthy or floor effects in the very ill), (2) imprecise measurement for individuals, (3) poorly-worded questions such as those that combine two concepts (double-barreled questions), and (4) differences in range of domains covered. While modification of a particular instrument may overcome some of these problems, modification also results in concerns about comparability of results obtained with different versions of the same instrument.

The US NIH Patient Reported Outcomes Measurement Information System (PROMIS®) provides an opportunity to address several limitations of the existing generic preference measures including: (1) fully capturing the entire range of a construct, (2) measuring an individual's health status with greater precision, and (3) creating a standardised valuation methodology for future studies. The PROMIS® measures stand to be highly applicable across clinical, research, and population studies. Thus, creating a preference-based scoring system for PROMIS would allow efficient use of study resources to collect both health profile and health utility scores.

Combining both psychometric theory (item-response theory; IRT) and econometric theory (multi-attribute utility theory; MAUT), Janel Hanmer will discuss the creation of the PROMIS-Preference (PROPr) scoring system. She will discuss how IRT is used to create measures of health domains, the linking of IRT calibrated questions to MAUT scoring, and the resulting scoring system.

[Janel Hanmer](#) is an Assistant Professor in the Department of Medicine at the University of Pittsburgh. She is also the Medical Director for Patient Reported Outcomes at the University of Pittsburgh Medical Center. She leads the effort to develop the PROPr scoring system.

If you would like to attend this seminar, please reply to ohgeneral@ohe.org.

If you are unable to attend but think that a colleague might like to, please pass on this letter to them.



Adrian Towse (Director)