Utility Estimation for Neurogenic Bowel Dysfunction in the General Population

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Introduction

• Neurogenic bowel dysfunction affects over 80% of individuals with spina bifida
• Neurogenic bowel is characterized by bowel incontinence and constipation

• Health utility states have been increasingly used in healthcare systems to understand how burdensome a population perceives a disease is and to evaluate whether interventions improve quality of life years.

Survey

• Demographics
• Background and management information for neurogenic bowel
• Time trade-off assessment using 3 hypothetical scenarios

• Content validation from convenience sampling: retrospective cognitive interviews

Results

• The median utility score was 0.84 [0.70-0.92]
• Participants reported that they would give up a median of 5 years of their own life, to prevent NBD in themselves or their child

Objective

• To elicit health utility scores for neurogenic bowel using an online community sample

Methods

• The time trade-off method was used to estimate a health utility score
• Survey was distributed to Mturk participants
• Participants received $0.50 if they completed the entire survey

Discussion

Prior health utility values for spina bifida: 0.85, 0.72, 0.84
Neurogenic bowel dysfunction in this study 0.84, 16% reduction from perfect health.

Similar to moderately severe disease states: severe persistent asthma (0.83); moderate seizure disorder (0.84); mild mental retardation (0.84)
Review of health utility estimates of chronic health conditions in children among parents, patients and pediatricians 0.80