

# Claims data should be considered as quality indicator for urinary incontinence after radical prostatectomy

P055: Correlation of healthcare insurance claims data for absorbing pads with PROMs as measure for urinary incontinence one year after radical prostatectomy

## Introduction

- Long term urinary incontinence (UI) after radical prostatectomy (RP) ranges from 4-31%, depending on definitions and methods used
- Can healthcare insurance claims data for absorbing pads be used as to determine post-RP UI rates?
- Aim: to validate claims data with Patient Reported Outcome Measures (PROMs) for absorbing pad use

## Methods

- All RP patients in the Netherlands between Sept 2019 and March 2020
- PROMs: daily pad use as reported with EPIC26/50, 10-15 months after RP
- Claims data: absorbing pad claims 12-15 months after RP according to Vektis National Claims Database profiles
- **UI definitions: daily use of  $\geq 1$  pad(s) / claims profile  $\geq 1$**
- Patients were matched through a "trusted third party" (ZorgTTP)
- Exclusion: UI prior to RP, continence surgery, uninsured or death <15 months after RP, missing PROMs
- 2x2 contingency table and Cohen's kappa for level of agreement

## Results

### PROMs dataset

- 9/17 Hospitals in NL reported PROMs
- 416 patients were successfully matched with corresponding data from claims dataset
- UI rates based on PROMs:
  - $\geq 1$  pad(s): 45%
  - $\geq 2$  pads: 13%

### Claims dataset

- 1624 RP patients (Vektis)
- 40 patients excluded
- UI rate based on claims profiles:
  - Profile  $\geq 1$ : 31%
- UI ranging 10%-64% between hospitals

Claims:	PROMs reported use:		
	0 pads	$\geq 1$ pads	Total
No claims / profile 0	217	71	288
profile $\geq 1$	10	118	128
<b>Total</b>	<b>227</b>	<b>189</b>	<b>416</b>

Table 2: 2x2 table of claimed pad use (profiles) and reported pad use (PROMs)

## Validation

Sensitivity: 62%  
 Specificity: 96%  
 PPV: 92%  
 NPV: 75%  
 Accuracy: 81%

Level of agreement:  
 $\kappa=0.60$  (moderate)

## Conclusion

Claims data of absorbing pads show a moderate agreement with PROMs for post-prostatectomy urinary incontinence in The Netherlands, with a high specificity and PPV.

Claims data should be considered as a valid but conservative quality indicator to monitor incontinence rates over time and between hospitals.

**vektis**

Profile	UI pattern	Pads used per day
No claims	-	-
Profile 0	Low frequent, mild loss	<1 pad
Profile 1	<100 cc per 24 hours	1-2 pads
Profile 2	<300cc per 24 hours	1-3 pads
Profile 3	<900cc per 24 hours	2-3 pads
Profile 4	<1500cc per 24 hours	3 pads
Profile 5	>1500cc per 24 hours	2-4 pads
Profile 6	>2000cc per 24 hours	3-5 pads

Table 1: profiles for absorbing pad claims (source: Vektis National Claims database)

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