**Supporting Appendix 1**

**King’s Health Questionnaire (KHQ)**

The numbers in the parentheses are the score for the questions. The questions Q8a-Q8e were excluded in this study.

Q1. How would you describe your health at present?

 Very good (1), good (2), fair (3), poor (4), very poor (5).

Q2. How much do you think your bladder problem affects your life?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q3a. To what extent does your bladder problem affect your household tasks (e.g. cleaning, shopping, etc.)?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q3b. Does your bladder problem affect your job, or your normal daily activities out side the home?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q4a. Does your bladder problem affect your physical activities (e.g. going for a walk, run, sport, gym, etc.)?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q4b. Does your bladder problem affect your ability to travel?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q4c. Does your bladder problem limit your social life?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q4d. Does your bladder problem limit your ability to see/visit friends?

 Not at all (1), a little (2), moderately (3), a lot (4).

Q5a. Does your bladder problem affect your relationship with your partner?

 Not applicable (0), not at all (1), slightly (2), moderately (3), a lot (4).

Q5b. Does your bladder problem affect your sex life?

 Not applicable (0), not at all (1), slightly (2), moderately (3), a lot (4).

Q5c. Does your bladder problem affect your family life?

 Not applicable (0), not at all (1), slightly (2), moderately (3), a lot (4).

Q6a. Does your bladder problem make you feel depressed?

 Not at all (1), slightly (2), moderately (3), very much (4).

Q6b. Does your bladder problem make you feel anxious or nervous?

 Not at all (1), slightly (2), moderately (3), very much (4).

Q6c. Does your bladder problem make you feel bad about yourself?

 Not at all (1), slightly (2), moderately (3), very much (4).

Q7a. Does your bladder problem affect your sleep?

 Never (1), sometimes (2), often (3), all the time (4).

Q7b. Do you feel worn out/tired?

 Never (1), sometimes (2), often (3), all the time (4).

Q8a. Wear pads to keep dry?

 Never (1), sometimes (2), often (3), all the time (4).

Q8b. Be careful how much fluid you drink?

 Never (1), sometimes (2), often (3), all the time (4).

Q8c. Change your underclothes when they get wet?

 Never (1), sometimes (2), often (3), all the time (4).

Q8d. Worry in case you smell?

 Never (1), sometimes (2), often (3), all the time (4).

Q8e. Get embarrassed because of your bladder problem?

 Never (1), sometimes (2), often (3), all the time (4).

**Supporting Appendix 2**

 **Calculation of KHQ-QOL domain scores**

KHQ-QOL domain scores were calculated using the following formulae.

1. General health perceptions:

 score = ((score to Q1-1)/4) × 100.

2. Impact on life:

 score = ((score to Q2-1)/3) × 100.

3. Role limitations:

 score = (((score to Q3a+Q3b) - 2)/6) × 100.

4. Physical limitations:

 score = (((score to Q4a+Q4b) - 2)/6) × 100.

5. Social limitations:

 if score Q5c >= 1,

 score = (((score to Q4c+Q4d+Q5c) - 3)/9) × 100;

 if score Q5c = 0,

 score = (((score to Q4c+Q4d) - 2)/6) × 100.

6. Personal relationships:

 if score Q5a+Q5b >= 2,

 score = (((score to Q5a+Q5b) - 2)/6) × 100;

 if score Q5a+Q5b = 1,

 score = (((score to Q5a+Q5b) - 1)/3) × 100;

 if score Q5a+Q5b = 0, treat as missing value (not applicable).

7. Emotions:

 score = (((score to Q6a+Q6b+Q6c) - 3)/9) × 100.

8. Sleep/energy:

 score = (((score to Q7a+Q7b) - 2)/6) × 100.

9. Incontinence severity measures:

 score = (((score to Q8a+Q8b+Q8c+Q8c+Q8e) - 5)/15) × 100.