

RESEARCH LETTER

Renal colic and childbirth pain: female experience versus male perception

Saiful Miah^{1,2} Charlotte Gunner³ Lucy Clayton⁴ Suresh Venugopal⁵ Nigel R Boucher⁵ Bo Parys⁶

¹Division of Surgery and Interventional Science, University College London, London, UK; ²Urology Department, Charing Cross Hospital, Imperial College Healthcare NHS Trust, London, UK; 3Urology Department, Raigmore Hospital, Inverness, UK; ⁴Psychiatry Department, Highbury Hospital, Nottingham, UK; 5Urology Department, Chesterfield Royal Infirmary, Chesterfield, UK; 6Urology Department, Rotherham General Hospital, Rotherham, UK

Correspondence: Saiful Miah Division of Surgery and Interventional Science, 4th Floor, University College London Medical School Building, 21 University Street, London WCIE 6AU, UK Tel +44 20 7679 9060 Email saiful.miah@ucl.ac.uk

Introduction

Renal colic is often described by patients as the worst pain ever experienced.¹ Pain during childbirth is also similarly described.² To date, no study has comparatively evaluated the pain of renal colic to that of childbirth in female patients who have experienced both. Furthermore, no such study has evaluated the perception that men with renal colic have with respect to the pain experienced during childbirth. Here we present our cross-sectional observational study to address these questions. The primary objectives of our study were to answer these questions and highlight the severity of renal colic which is not always faced and treated aggressively.

Materials and methods

Fifty-nine patients across two centers (Rotherham General Hospital, UK and Chesterfield Royal Hospital, UK) were asked to complete a visual analog scale questionnaire to assess the severity of their renal colic (minimum: 1, maximum: 10). All patients had confirmed ureteric stones on CT imaging and were asked if their renal colic was the most painful condition they have ever suffered. All primiparas and multiparas females were asked if their renal colic was more painful than childbirth. All men were asked to provide an opinion on what they imagined would be more painful – their renal colic or the pain associated with childbirth.

The study gained ethical approval from Chesterfield Royal Hospital Research and Ethics Department. All patients provided written consent to in order to participate in the study.

Results

Thirty-six male and 23 female patients fully completed the questionnaire with age, stone size, and numerical pain rating score recorded (Table 1). There were no statistically significant differences in these parameters between male and female patients (p>0.05, Student's t-test). From the male cohort of patients, 88.9% (n=32) stated that it was the worst pain they had ever experienced and for the female cohort this was 78.2% (n=19).

From the female cohort of patients, 19 had given birth previously with 63.3% (n=12) saying that renal colic was more painful and a further 15.7% (n=3) felt that the intensity of pain was similar. Twenty-one percent of (n=4) female patients who had experienced both childbirth and renal colic stated that childbirth was a more painful experience.

Table I Results from the visual analog scale questionnaire

	Mean age (years)	Mean size of stone (mm)	Mean numerical pain rating (min: I, max: I0)	Renal colic – most severe pain experienced	Pain experienced/opinion of renal colic versus childbirth*		
					More	Same	Less
Female (n=23)	47.6	5.1	9.8	78.2%	63.3%	15.7%	21%
Male (n=36)	50.3	5.8	9.4	88.9%	36.6%	23.4%	40%

Notes: *For females, from 19 patients who have experienced both renal colic and childbirth.

In contrast, the majority of male patients imagined that the pain from their renal colic was less painful (40%) or comparable (23.4%) to that of childbirth.

Discussion

The results of our study suggest that renal colic was the worst pain for the majority of female patients who have experienced both forms of pain. In contrast, 63.4% of men imagined that the pain of childbirth is worse or as severe as that from their renal colic.

Renal colic should be managed by a swift stepwise and progressive analgesia regime. Pain associated with childbirth is well recognized and follows involvement of the pain team or anesthetist in pain control during labor. In contrast, renal colic pain is managed generally in the acute setting by either emergency care practitioners or the urologist. Optimal pain management in renal colic patients in the shortest possible time is vital as this group can on occasion be left with inadequate analgesia for lack of understanding of the intensity pain.³

Our study has several limitations. They include limitations in numbers with only 19 women who experienced both renal

colic and childbirth. We assessed labor pain retrospectively which will include an element of recall bias. Further work could potentially include assessing female patients in their acute pain phase of labor and who have experienced renal colic pain prior to childbirth.

To conclude, our study underlines and highlights the urgency and importance required when administering effective analysesia for female and male patients presenting with renal colic as that would be expected from those experiencing childbirth.

Disclosure

The authors report no conflicts of interest in this work.

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