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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Publication | Year | Parity\* | Gestation diagnosis | | Gestation dELIVERY | | AgE | Presentation | | Symptoms | | Haematuria | | Fever | | Dysuria | | | WCC | |  | |
| Cohen (1) | 1968 | Multiparous | 37 | 38 | | 35 | | | pain | | Nausea/vomiting | | yes | | -/- | | -/- | -/- | |  | |
| Middleton (2) | 1980 | Multiparous | 18 | 40 | | 26 | | | acute right flank and RUQ pain | | Nausea/vomiting | | yes | | -/- | | -/- | -/- | |  | |
| Noe (3) | 1980 | Nulliparous | 40 | 40 | | 20 | | | flank pain and Right upper quadrant pain | | Fever | | no | | -/- | | -/- | -/- | |  | |
| Eaton (4) | 1981 | Nulliparous | 30 | 37 | | 27 | | | bilateral flank pain | | Nausea/vomiting | | -/- | | yes | | -/- | elevated | |  | |
| Maresca (5) | 1981 | Multiparous | 18 | 40 | | 34 | | | right flank pain, severe | | Nausea/vomiting | | no | | -/- | | -/- | normal | |  | |
| Kramer (6) | 1983 | Nulliparous | 30 | 40 | | 18 | | | right flank pain, severe | | Nausea/vomiting | | no | | -/- | | -/- | normal | |  | |
| Dhabuwala (7) | 1984 |  | 28 | 40 | | 19 | | | right flank pain | | Nausea/vomiting | | no | | yes | | -/- | elevated | |  | |
| Meyers (8) | 1985 | Nulliparous | 27 | 28 | | 18 | | | right flank pain and right lower abdominal pain with peritonism, severe | |  | | yes | | no | | no | -/- | |  | |
| Oesterling (9) | 1988 | Nulliparous | 20 | 40 | | 36 | | | right flank pain, Right lower abdominal pain | | Nausea/vomiting | | -/- | | -/- | | -/- | -/- | |  | |
| Van Winter (10) | 1991 | Nulliparous | 34 | 37 | | 20 | | | right flank pain | | Nausea/vomiting | | no | | -/- | | -/- | normal | |  | |
| Hamoud (11) | 1994 | Nulliparous | 37 | 37 | | 29 | | | right flank pain, lower abdominal pain with peritonism | |  | | -/- | | no | | no | normal | |  | |
| Royburt (12) | 1994 | Multiparous | 33 | 36 | | 29 | | | left flank pain | |  | | yes | | no | | no | elevated | |  | |
| Hwang (13) | 2000 | Multiparous | 28 | -/- | | 26 | | | right flank pain, severe | |  | | no | | -/- | | -/- | -/- | |  | |
| Nabi (14) | 2001 | Unknown | 18 | 19 | | 28 | | | right flank pain | |  | |  | | -/- | | -/- | normal | |  | |
| Satoh (15) | 2002 | Nulliparous | 20 | 41 | | 34 | | | right flank pain | |  | | no | | -/- | | -/- | normal | |  | |
| Jang (16) | 2006 | Unknown | 4w PP |  | | 31 | | | right flank pain, severe | |  | | no | | -/- | | -/- | -/- | |  | |
| Lang (17) | 2006 | Multiparous | -/- | -/- | | 27 | | | bilateral flank pain | |  | | yes | | yes | | yes | elevated | |  | |
| Lo (18) | 2007 | Nulliparous | 32 | 32 | | 33 | | | left flank pain | |  | | no | |  | | -/- | normal | |  | |
| Ushioda (19) | 2008 | Nulliparous | 21 | 39 | | 27 | | | left flank pain, lower abdominal pain | |  | | no | | no | | no | normal | |  | |
| Sidra (20) | 2009 | Nulliparous | 34 | 34 | | 28 | | | right flank pain | |  | | no | | no | | -/- | -/- | |  | |
| Huang (21) | 2009 | Nulliparous | 19 | 25 | | 27 | | | right flank pain, severe | |  | | -/- | |  | | -/- | -/- | |  | |
| Machado (22) | 2009 | Nulliparous | 31 | 34 | | 20 | | | right flank pain, severe | |  | | -/- | | yes | | no | -/- | |  | |
| Tang (23) | 2009 | Nulliparous | D5 PP | 37 | | 31 | | | right flank pain | |  | | yes | | -/- | | -/- | -/- | |  | |
| Matsubara (24) | 2010 | Nulliparous | 34 | 34 | | 38 | | | left flank pain, back pain | |  | | yes | | -/- | | -/- | -/- | |  | |
| Efrimescu (25) | 2013 | Nulliparous | 28 | 36 | | 31 | | | left flank pain, severe | |  | | yes | | no | | no | elevated | |  | |
| Khandelwal (26) | 2013 | Unknown | 5w PP | - | | 25 | | | left flank pain, severe | |  | | no | | -/- | | -/- | -/- | |  | |
| Jalbani (27) | 2014 | Unknown | 5 | - | | 22 | | | right sided abdominal pain | | Nausea/vomiting | | -/- | | yes | | yes | -/- | |  | |
| Kumar (28) | 2014 | Unknown | 5w PP | - | | 25 | | | right flank pain | |  | | no | | -/- | | -/- | -/- | |  | |
| Upputalla (29) | 2014 | Nulliparous | 23 | 37 | | 26 | | | right sided abdominal pain | |  | | -/- | | no | | no | normal | |  | |
| Boekhorst (30) | 2015 | Multiparous | 34 | 37 | | 27 | | | right sided abdominal pain | | Nausea/vomiting | | no | | no | | no | elevated | |  | |
| Hanson (31) | 2015 | Nulliparous | 33 | 33 | | 29 | | | right flank pain | | Nausea/vomiting | | no | | no | | -/- | elevated | |  | |
| Narashimhulu (32) | 2015 | Nulliparous | PP | - | | 22 | | | left flank pain and contraction pain | |  | | yes | | no | | no | elevated | |  | |
| Patel (33) | 2015 | Nulliparous | 38 | 38 | | 24 | | | right flank pain | | Nausea/vomiting | | no | | -/- | | -/- |  | |  | |
| Fluke (34) | 2016 | Nulliparous | 30 | 38 | | 21 | | | left flank pain | |  | | -/- | | -/- | | -/- | elevated | |  | |
| Deshmukh (35) | 2016 | Unknown | 3w PP | 40 | | 26 | | | right sided abdominal pain | |  | | -/- | | -/- | | -/- | -/- | |  | |
| Traveiso (36) | 2018 | Nulliparous | 22 | 37 | | 25 | | | right sided flank pain | |  | | no | | no | | no | normal | |  | |
| Chen (37) | 2019 | Nulliparous | 26 | 35 | | 23 | | | left flank pain | |  | | yes | | no | | -/- | -/- | |  | |
| Verhaeghe (38) | 2019 | Multiparous | D1 PP | 41 | | 26 | | | left abdominal and flank pain | |  | | -/- | | yes | | -/- | elevated | |  | |
| Rickard-Bell (39) | 2020 | Multiparous | D1 PP | 40 | | 23 | | | right flank pain | |  | | no | | yes | | -/- | elevated | |  | |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Publication | Previous claculi | prior renal disease | Initial Diagnosis via Ultrasound | Additional Imaging | | treatment | | Delivery Method | |
| Cohen (1) | -/- | -/- | Not performed | | Retrograde pyelogram | | Nephrectomy, Laparotomy | | Vaginal delivery | |
| Middleton (2) | no |  | ground glass appearance of right kidney | | Retrograde pyelogram | | Nephrostomy | | Vaginal delivery | |
| Noe (3) | no | no | -/- | | -/- | | Conservative | | Caesarean section | |
| Eaton (4) |  |  | Results not reported | |  | | Nephrostomy | | Instrumental delivery | |
| Maresca (5) | -/- | -/- | -/- | | Retrograde pyelogram | | ureteric catheter | | Vaginal delivery | |
| Kramer (6) | -/- | -/- | hydronephrosis, urinoma | | Retrograde pyelogram | | Conservative | | Vaginal delivery | |
| Dhabuwala (7) | -/- | -/- | right hydronephrosis, urinoma | | Retrograde pyelogram | | Ureteric stent, Laparotomy | | Vaginal delivery | |
| Meyers (8) | no | -/- | retroperitoneal collection of fluid around right kidney accompanied by calicectasis | | Retrograde pyelogram | | Ureteric Stent | | -/- | |
| Oesterling (9) | -/- |  | hydronephrosis, urinoma | | Retrograde pyelogram | | ureteric catheter | | Vaginal delivery | |
| Van Winter (10) | -/- | -/- | hydronephrosis, urinoma | | Retrograde pyelogram | | Ureteric Stent | | Vaginal delivery | |
| Hamoud (11) | no | no | hydronephrosis | | -/- | | ureteric catheter | | Caesarean section | |
| Royburt (12) | -/- | -/- | bilateral mild hydroureter L>R, L perirenal urinoma and urine extravasation | | -/- | | Conservative | | Vaginal delivery | |
| Hwang (13) | -/- | -/- | right hydronephrosis and hydroureter with perinephric fluid with extravasation of urine | | -/- | | ureteric catheter | | -/- | |
| Nabi (14) | -/- | -/- | mild dilatation of right calices, renal pelvis, and proximal ureter (consistent with pregnancy) | | -/- | | Ureteric stent | | Spontaneous miscarriage (19 weeks) | |
| Satoh (15) | -/- | -/- | hydronephrotic right kidney with small preinephric collection. hydronephrotic left kidney: non-functioning | | Retrograde pyelogram | | Ureteric stent | | Caesarean section | |
| Jang (16) | no | no | mild hydronephrosis | | CT | | Percutaneous Drain | | Caesarean section | |
| Lang (17) | no | no | mild hydronephrosis | | CT | | Percutaneous Drain | | Caesarean section | |
| Lo (18) | -/- | -/- | huge echo-poor collections around both kidneys | | CT | | Percutaneous Drain | | Caesarean section | |
| Ushioda (19) | -/- | -/- | -/- | | CT | | Ureteric stent | | Caesarean section | |
| Sidra (20) | no | no | hydronephrosis bilateral, hydroureter (performed after delivery) | | -/- | | Ureteric stent | | Vaginal delivery | |
| Huang (21) | -/- | -/- | mild bilateral hydronephrosis | | Retrograde pyelogram | | Ureteric Stent | | Vaginal delivery | |
| Machado (22) | -/- | -/- | hydronephrosis, hydroureter | | -/- | | Ureteric Stent | | -/- | |
| Tang (23) | -/- | -/- | right perinephric fluid collection | | -/- | | Ureteric stent | | -/- | |
| Matsubara (24) | no | no | IUGR, mild right hydronephrosis | | Retrograde pyelogram | | Ureteric stent | | Caesarean section | |
| Efrimescu (25) | no | no | left renal hydronephrosis | | -/- | | Ureteric stent | | Caesarean section | |
| Khandelwal (26) | -/- | -/- | bilateral hydronephrosis | | -/- | | Percutaneous drain | | Instrumental delivery | |
| Jalbani (27) | no | no | bilateral dilatation of renal collecting system | | CT | | Percutaneous Drain | | Vaginal delivery | |
| Kumar (28) | yes | -/- | echo-poor collection around the kidneys | | -/- | | Ureteric stent | | -/- | |
| Upputalla (29) | no | no | large perinephric collection with multiple stones in the renal pelvis | | CT | | Percutaneous Drain | | Vaginal delivery | |
| Boekhorst (30) | -/- | -/- | echo-poor collection around the kidneys | | MRI | | Nephrostomy | | Vaginal delivery | |
| Hanson (31) | -/- | -/- | -/- | | MRI | | Ureteric stent | | Vaginal delivery | |
| Narashimhulu (32) | yes | -/- | slight bilateral dilation of upper urinary tract. appendix not seen. no kidney/gallbladder stones | | MRI | | Conservative | | Vaginal delivery | |
| Patel (33) | no | no | mild left pelviectasis not out of proportion with normal pregnancy, small area of echogenicity ?stone | | CT / Retrograde pyelogram | | Ureteric stent | | Vaginal delivery | |
| Fluke (34) | no | no | normal | | CT | | Conservative | | Caesarean section | |
| Deshmukh (35) | -/- | -/- | -/- | | Retrograde pyelogram | | Ureteric Stent | | -/- | |
| Traveiso (36) | -/- | -/- | mild right hydronephrosis | | CT | | Conservative | | Vaginal delivery | |
| Chen (37) | -/- | -/- | Right ureteric tapering | | MRI only | | Nephrostomy | | Vaginal delivery | |
| Verhaeghe (38) | -/- | -/- | Hydronephrosis and surrounding cyst | | MRI | | Nephrostomy | | Caesarean section | |
| Rickard-Bell (39) | -/- | -/- | -/- | | CT only | | Ureteric stent | | Instrumental delivery | |

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