| Author                  | Age | Size (measured at its biggest, rounded to nearest cm) | Gravidity, Parity, Menopausal status if known | Symptoms                                      | Cause of ruptured dermoid cyst | Management | Complications                                                                 |
|-------------------------|-----|--------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------|------------|-------------------------------------------------------------------------------|
| 1. Piper, 1941          | 50  | 12                                                     | Post-menopausal                               | Abdominal pain, mass sensation, weight loss   | Fall                            | Laparotomy |                                                                               |
| 2. Piper, 1941          | 60  | No mention                                            | Post-menopausal                               | Abdominal pain, distension, nausea, vomiting, fever, diarrhoea | Fall                            | Laparotomy | Chronic peritonitis                                                          |
| 3. Poole, 1947          | 64  | 14                                                     | Post-menopausal                               | Abdominal pain, vomiting, diarrhoea, fevers   | Laparotomy                      |            |                                                                               |
| 4. Van Orman and Mautner, 1951 | 25  | 25, 5 (Bilateral – does not mention if smaller one was ruptured or not) | G1P1, Premenopausal                           | Abdominal pain, mass, distension, constipation | Postpartum                      | Laparotomy | Granulomatous peritonitis                                                    |
| 5. Quer, 1952           | 24  | 8                                                      | G1P1, Premenopausal                           | Abdominal pain, distension and vomiting       | Immediately postpartum           | Laparotomy |                                                                               |
| 6. Kistner et al, 1952  | 48  | 15 (Bilateral, Left 6cm does not mention if this ruptured) | G1P1                                         | Abdominal pain, fevers, jaundice             | Laparotomy                      | Granulomatous peritonitis                                                  |
| 7. Kistner et al, 1952  | 31  | 8                                                      | G3P2, Premenopausal                           | Abdominal pain, nausea, vomiting              | 32 weeks pregnant, torsion      | Laparotomy | Paralytic ileus                                                              |
| 8. Stein and Kaye, 1954 | 31  | No mention                                            | G2P2, Premenopausal                           | Pelvic mass, rectal pain, weight loss, low grade fever | Laparotomy                      | Granulomatous peritonitis, fevers                                         |
| 9. Abitbol, 1959        | 34  | No mention                                            | G2P1, Premenopausal                           | Abdominal pain, distension, fever, vomiting   | Laparotomy                      | Paralytic ileus                                                            |
| 10. Abitbol, 1959       | 45  | 10                                                     | G2P2                                         | Abdominal mass                                | Laparotomy                      |                                                                      |
| 11. Waddell et al, 1961 | 22  | 6                                                      | G3P2, Premenopausal                           | Abdominal pain, nausea, vomiting, diarrhoea   | 36 weeks pregnant               | Laparotomy |                                                                               |
| 12. Schaffer et al, 1964| 27  | 6                                                      | G3P3, Premenopausal                           | Acute abdomen, fever on day 1 postpartum      | Preterm delivery at 32 weeks gestation | Laparotomy | Acute chemical peritonitis                                                    |
| 13. Jejurkar et al, 1965| 35  | 13                                                     | G0P0, Premenopausal                           | Abdominal pain, vomiting, constipation         | Laparotomy                      | Paralytic ileus, chemical peritonitis                                       |
| 14. Cox and Kity, 1971  | 30  | 15                                                     | G3P2, Premenopausal                           | Abdominal pain, nausea, vomiting, fevers      | 16 weeks pregnant, torsion      | Laparotomy | Ileus                                                                         |
| 15. Harris and Mackrell, 1971 | 20  | 14                                                     | G1P1, Premenopausal                           | Abdominal distension, abdominal pain, fevers  | 4 days postpartum               | Laparotomy | Chemical peritonitis, ileus, wound seroma                                     |
| 16. Lee and Yeung, 1971 | 36  | No mention                                            | G3P2, Premenopausal                           | Acute abdomen, fevers, vomiting               | 32 weeks pregnant, infection    | Laparotomy and classical caesarean section | Bowel perforation of sigmoid colon, ileus, subphrenic abscess, wound infection |
| No. | Author(s)          | Year | Case Details                                                                 | Procedure | Admission df.                                             | Final Diagnosis                                                                 |
|-----|--------------------|------|-------------------------------------------------------------------------------|-----------|-----------------------------------------------------------|-------------------------------------------------------------------------------|
| 17. | Panjota et al., 1975 | 15   | G1P0, Premenopausal, Severe shock and collapse                                | Labour    | Laparotomy                                                | Haemorrhage from liver laceration and rupture of uterine vessels, cardiac arrest during surgery, death |
| 18. | Waxman, 1976        | 41   | 10, 7 (Bilateral – Left 7 cm unruptured, ruptured dermoid cyst intraoperatively was found to be 7 cm) | G6P6, Premenopausal | Abdominal distension, fever, shortness of breath | Laparotomy                                                                  |
| 19. | Waxman, 1976        | 22   | G0P0, Premenopausal, Abdominal mass, distension, pain                         | Torsion   | Laparotomy                                                | Re-admitted with inflammatory dermoid mass recurrence as seen on imaging, ascites which was aspirated |
| 20. | Waxman, 1976        | 53   | G0P0, Postmenopausal, Abdominal pain                                          |           | Laparotomy                                                | Granulomatous peritonitis                                                     |
| 21. | Mehra et al., 1976  | 18   | G1P0, Premenopausal, Acute abdomen, nausea, vomiting, vaginal discharge       | 12 weeks pregnant, infection | Laparotomy                                                | Subphrenic abscess                                                           |
| 22. | Semchyshyn, 1977    | 45   | Pre-menopausal, Abdominal pain, shortness of breath                           |           | Laparotomy                                                |                                                                               |
| 23. | Giustini et al., 1978 | 18   | G1P0, Premenopausal, Abdominal pain, fevers                                  | Termination of pregnancy | Laparotomy                                                |                                                                               |
| 24. | Stern, 1981         | 21   | G0P0, Premenopausal, Abdominal distension, weight loss, loss of appetite, fever, nausea and vomiting, discharge of hair from umbilicus | Laparotomy | Bowel obstruction, Abdominal wall sinus                   |                                                                               |
| 25. | Stern, 1981         | 29   | G1P1, Premenopausal, Abdominal pain, distension                              |           | Laparotomy                                                |                                                                               |
| 26. | Stern, 1981         | 74   | G12P6, Postmenopausal, Abdominal pain, distension, fever                      |           | Laparotomy                                                | Chemical peritonitis                                                          |
| 27. | Stern, 1981         | 41   | Pre-menopausal, Abdominal pain, fever, diarrhoea                              |           | Laparotomy                                                | Ileus, pelvic abscess, then sepsis and death of Day 2 post-operatively from cardiac arrest |
| 28. | Longmaid et al., 1983 | 32   | G2P1, Premenopausal, Back pain, fevers, nausea, vomiting, pre-term labour     | 28 weeks pregnant | Emergency caesarean section for foetal distress          | Chemical peritonitis, ileus                                                    |
| 29. | Stuart et al., 1983 | 60   | Post-menopausal, Abdominal pain, diarrhoea, vomiting, low grade fever         |           | Laparotomy                                                | Dermoid mass recurrence needing second laparotomy, chronic granulomatous peritonitis needing oral steroids for 6 weeks |
| 30. | Stuart et al., 1983 | 47   | G0P0, Abdominal distension, weight gain                                       |           | Laparotomy                                                | Granulomatous peritonitis                                                     |
| No. | Authors, Year | G3P3, Stage | Menopausal Status | Symptoms | Duration | Cause | Intervention |
|-----|---------------|--------------|-------------------|----------|----------|-------|-------------|
| 31. | Fukushima et al, 1984 | G3P3, Pre-menopausal | Abdominal distension, mass sensation | 3 months postpartum | Laparotomy |
| 32. | Graubard and Koller, 1987 | - | Abdominal pain, distension, fever | Infection – Group B strep, Torulopsis glabrata | Laparotomy |
| 33. | Payne-James and Fitzgibbon, 1987 | P2, Pre-menopausal | Abdominal pain, nausea | - | Laparotomy |
| 34. | Ferrero et al, 1990 | No mention | Abdominal pain, haematuria | MVA | Laparotomy |
| 35. | Holdsworth et al, 1990 | Pre-menopausal | Abdominal pain | Laparotomy |
| 36. | Kommoss et al, 1990 | G3P3, Post-menopausal | Abdominal pain, mass, fever | Laparotomy |
| 37. | Levine et al, 1992 | Pre-menopausal | Syncope, abdominal pain | MVA | Laparotomy |
| 38. | Sharma and Pendse, 1992 | No mention | Abdominal mass | Laparotomy |
| 39. | Sharma and Pendse, 1992 | Pre-menopausal | Abdominal pain, distension, constipation, vomiting | Laparotomy |
| 40. | Sharma and Pendse, 1992 | No mention | Abdominal pain, distension, constipation | Laparotomy |
| 41. | Sharma and Pendse, 1992 | No mention | Abdominal pain, distention, vomiting | Laparotomy |
| 42. | Bhatla et al, 1993 | P4, Pre-menopausal | Abdominal distension, pain, change in bowel habits, constipation | Laparotomy |
| 43. | Pal et al, 1996 | Pre-menopausal | Fevers, abdominal pain, distension, vomiting, constipation | Laparotomy |
| 44. | Stenram, 1997 | P3, Pre-menopausal | Abdominal pain, distension | Laparotomy |

**Additional Notes:**
- Recurrent dermoid masses 17 years as seen on CT later near liver and another mass perforating into the transverse colon needing second laparotomy with liver resection and 7cm segmental transverse colectomy with end-to-end anastomosis.
- Acute abdomen post-op from bowel perforation needing second laparotomy (undetected in first laparotomy for dermoid).
- Wound infection with dehiscence requiring secondary suture.
| Study                  | Age | Menopausal Status | Main Symptom(s)                                                                 | Event(s)                                                                                                    | Treatment                      |
|-----------------------|-----|------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
| Ling et al, 1998      | 23  | Pre-menopausal   | Abdominal pain, fevers                                                        | Termination of pregnancy                                                                                   | Laparotomy                     |
| Fibus, 2000           | 45  | Pre-menopausal   | Abdominal pain, irregular menses                                              |                                                                                                              | Laparotomy                     |
| Shukunami et al, 2000 | 32  | Pre-menopausal   | Abdominal pain                                                                | 5 weeks postpartum                                                                                            | Laparotomy                     |
| Wang et al, 2000      | 28  | Pre-menopausal   | Abdominal pain, 4cm (Intra-operatively was found to be 4cm)                   | Malignant transformation                                                                                    | Laparoscopy                    |
|                       |     |                  |                                                                               | Post-operative abdominal distension, Intestinal obstruction on CT scan with ascites requiring laparotomy, disseminated carcinomatosis |                                |
| Jaworski et al, 2001  | 27  | Pre-menopausal   | Abdominal pain                                                                |                                                                                                              | Laparotomy                     |
|                       |     |                  |                                                                               | Peritoneal melanosis                                                                                       |                                |
| Kumari et al, 2002    | 25  | Pre-menopausal   | Labour with spontaneous rupture of membranes, abdominal pain                  | 39 weeks pregnant in labour – resulting in emergency caesarean section for elevated foetal scalp lactate    | Emergency caesarean section    |
|                       |     |                  |                                                                               |                                                                                                              |                                |
|                       | 50  | Post-menopausal  | Abdominal pain, nausea, vomiting                                              | No mention                                                                                                  | Intra-abdominal abscess        |
| Takemori and Nishimura, 2003 | 69  | Post-menopausal  | Abdominal distension                                                          | Malignant transformation                                                                                   | Laparotomy                     |
| Wilberg et al, 2003   | 50  | Pre-menopausal   | Abdominal pain, distension, diarrhoea, vomiting                               |                                                                                                              | Laparotomy                     |
|                       |     |                  |                                                                               | Granulomatous peritonitis                                                                                    |                                |
| Lichtenberg, 2004     | 22  | Pre-menopausal   | Abdominal pain, mass, fevers, 4cm                                              | 12 days post termination of pregnancy, infection                                                           | Laparotomy                     |
|                       |     |                  |                                                                               | Pelvic peritonitis                                                                                         |                                |
| Phupong et al, 2004   | 39  | Pre-menopausal   | Abdominal distension, shortness of breath                                     |                                                                                                              | Laparotomy                     |
|                       | 19  |                  |                                                                               | Granulomatous peritonitis                                                                                    |                                |
| Suprasert et al, 2004 | 50  | Pre-menopausal   | Abdominal distension, weight loss                                              |                                                                                                              | Laparotomy                     |
| Suprasert et al, 2004 | 53  | Post-menopausal  | Abdominal distension, weight loss, fevers                                     |                                                                                                              | Laparotomy                     |
|                       |     |                  |                                                                               | Granulomatous peritonitis                                                                                    |                                |
| Moriarty et al, 2005  | 29  | Pre-menopausal   | Abdominal pain, PPROM, pre-term labour                                       | 31 weeks pregnant                                                                                          | Emergency caesarean section    |
|                       |     |                  |                                                                               | for pathological CTG                                                                                       | Chemical peritonitis           |
| Roman et al, 2005     | 26  | Pre-menopausal   | Abdominal pain, nausea, vomiting                                              | 31 weeks pregnant, torsion                                                                                | Laparoscopy                    |
|                       |     |                  |                                                                               |                                                                                                              |                                |
| Study                                      | Year | Age | Menopausal Status | Symptoms                          | Diagnosis                  | Treatment                                      |
|-------------------------------------------|------|-----|-------------------|-----------------------------------|---------------------------|-----------------------------------------------|
| Ansell and Bolton, 2006                   | 38   | 9   | Pre-menopausal    | Abdominal pain, vomiting, pre-term labour | 36 weeks pregnant         | Emergency caesarean for CTG abnormalities     |
| Nitinarvakarn et al, 2006                 | 41   | 14  | Pre-menopausal    | Abdominal pain, distension, nausea, vomiting, diarrhoea, fevers | Laparotomy                | Chemical peritonitis                          |
| Banerjee, 2007                            | 28   | 6   | Pre-menopausal    | Acute abdomen, diarrhoea, fevers | Infection – pseudomonas | Laparotomy                                    |
| Kimbrell et al, 2007                      | 18   | 6   | Pre-menopausal    | Abdominal pain, acute abdomen     | MVA                       | Laparotomy                                    |
| Koshiba, 2007                             | 58   | 6   | G3P3              | Abdominal pain, fever             | Laparotomy                | Chemical peritonitis requiring oral steroids and azathioprine |
| da Silva, 2008                            | 75   | 14  | Intra-operatively was found to be 13cm | G1P1, Post-menopausal | Abdominal pain | Malignant transformation | Laparotomy | Chemical peritonitis                          |
| Wang et al, 2008                          | 39   | 15  | G3P2              | Abdominal pain                    | Malignant transformation | No mention                                    |
| Candidela et al, 2009                     | 9    | 20  | Pre-menopausal    | Acute abdomen                     | Torsion, 20 days post appendicectomy | Laparotomy                                    |
| Chang and Lin, 2009                       | 17   | 12  | Pre-menopausal    | Abdominal pain                    | Vigorous exercise         | Laparotomy                                    |
| Iwata et al, 2009                         | 9    | 3   | Pre-menopausal    | Abdominal pain                    | Laparoscopy               |                                              |
| Murtaza et al, 2009                       | 55   | 8   | -                 | Abdominal pain, fever, constipation, vomiting | Laparotomy                | Ileus                                         |
| Hosokawa et al, 2010                      | 52   | 17  | Intra-operatively was found to be 8cm | -                              | Abdominal mass | Malignant transformation | No mention |                                              |
| Tanaka et al, 2011                        | 37   | 12  | Pre-menopausal    | Acute abdomen, pain, fevers       | 12 days postpartum        | Laparotomy                                    |
| Yang et al, 2011                          | 50   | 4   | Intra-operatively was found to be 3cm | G3P2                           | Abdominal pain, nausea, fevers | Laparoscopy | Ascites requiring drainage, chemical peritonitis requiring oral steroids |
| Shankar et al, 2013                       | 25   | 30  | Pre-menopausal    | Abdominal pain, weight loss, distension, shortness of breath, irregular menses | Laparotomy                | Intestinal obstruction – seen clinically      |
| Tejima et al, 2013                        | 72   | 6   | Post-menopausal   | Fevers, abdominal distension, pain, nausea, diarrhoea | Patient declined surgical management – supportive management |
| Nader et al, 2014                         | 29   | 9   | G2P2, Pre-menopausal | Abdominal distension              | 2 months postpartum       | Laparoscopy                                   |
| Erbay et al, 2015                         | 54   | 10  | -                 | Abdominal pain                    | Laparotomy                | Granulomatous peritonitis                     |
| Reference | Plate | Menopausal Status | Symptoms | Diagnosis | Procedures |
|-----------|-------|-------------------|----------|-----------|------------|
| Kuo et al, 2015 | 31 | Pre-menopausal | Abdominal distension, weight loss | Barely noticeable dermoid fat implants on CT scan, patient is asymptomatic | Laparotomy |
| Joshi et al, 2016 | 26 | Pre-menopausal | Acute abdomen, pain, vomiting | Termination of pregnancy | Laparotomy |
| Lim et al, 2016 | 32 | Pre-menopausal | Abdominal pain | 15 weeks pregnant | Laparoscopy |
| Haidar and Sharaf, 2017 | 45 | Pre-menopausal | Abdominal pain | MVA | Laparoscopy |
| Yohann et al, 2017 | 15 | Pre-menopausal | Abdominal pain | MVA | Laparoscopy |
| Chaudhary et al, 2018 | 28 | G2P1, Pre-menopausal | Abdominal pain | 24 weeks pregnant | Laparotomy |
| Aydin et al, 2019 | 34 | Pre-menopausal | Abdominal pain, loss of appetite | 23 weeks pregnant | Laparotomy |
| Chandi et al, 2019 | 27 | G2P1, Pre-menopausal | Abdominal pain preterm labour, abdominal distension postpartum | 30 weeks pregnant, torsion | Laparotomy |
| Choi et al, 2019 | 42 | 9 (Bilateral – likely both ruptured, but case report not entirely clear) | Abdominal pain, distension, fever | Malignant transformation – malignant melanoma | Laparotomy |
| El Moussaoui et al, 2019 | 31 | G0P0, Pre-menopausal | Abdominal pain, distension | | Laparoscopy |

Supplementary Table: All cases reviewed in this literature review pertaining to dermoid cysts rupturing into the peritoneal cavity.