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### Literature search results

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**Search details**

Caesarean Section and Hepatic Rupture

**Resources searched**

- NHS Evidence specialist library – women’s health, NHS Evidence Guidance, Cochrane Library, TRIP, Medline, Embase

**Database search terms**: Caesarean/caesarean section, pregnancy, hepatic rupture, rupture spontaneous, liver

**Google search string**: Hepatic rupture (delivery or caesarean section)

**Summary**

Limited resources located on this topic.

**Guidelines**

None found

**Evidence-based reviews**

None found

**Published research**

1. Spontaneous hepatic rupture in a normotensive monoamniotic
twin pregnancy: Case report and review of the literature


Citation: Gynecologic and Obstetric Investigation, July 2010, vol./is. 70/1(69-72), 0378-7346 (July 2010)

Publication Date: July 2010

Abstract: Background: Spontaneous liver rupture during pregnancy is extremely rare, and often associated with hypertensive disorders. Maternal outcomes are poor and morbidity is high. Case: A 27-year-old women (G1P0), pregnant with monochorionic-monoamniotic twins, developed extensive abdominal pain while she was electively admitted at 32 weeks for fetal pulmonary maturation. Diagnosed with preterm labor, a caesarean section was performed. Postoperatively, our patient deteriorated and a second laparotomy revealed an extensive liver rupture. There was no evidence of hypertensive disorders or hepatic tumors. After perihepatic packing and embolization, our patient required long-term treatment in our intensive care unit. She survived, and both mother and children are healthy after 6 months. Conclusion: Despite being rare, spontaneous liver rupture in absence of hypertensive disorders during pregnancy is associated with high maternal morbidity and mortality. Adequate treatment requires a multidisciplinary approach. 2010 S. Karger AG, Basel.

Source: EMBASE


Author(s): DeKoninck PL, Loquet P, Leyman P, Van Leemput J, d'Archambeau O, Van Wiemeersch J, Devlieger R

Citation: Gynecologic & Obstetric Investigation, 2010, vol./is. 70/1(69-72), 0378-7346;1423-002X (2010)

Publication Date: 2010

Abstract: BACKGROUND: Spontaneous liver rupture during pregnancy is extremely rare, and often associated with hypertensive disorders. Maternal outcomes are poor and morbidity is high. CASE: A 27-year-old women (G1P0), pregnant with monochorionic-monoamniotic twins, developed extensive abdominal pain while she was electively admitted at 32 weeks for fetal pulmonary maturation. Diagnosed with preterm labor, a caesarean section was performed. Postoperatively, our patient deteriorated and a second laparotomy revealed an extensive liver rupture. There was no evidence of hypertensive disorders or hepatic tumors. After perihepatic packing and embolization, our patient required long-term treatment in our intensive care unit. She survived, and both mother and children are healthy after 6 months. CONCLUSION: Despite being rare, spontaneous liver rupture in absence of hypertensive disorders during pregnancy is associated with high maternal morbidity and mortality. Adequate treatment requires a multidisciplinary approach. Copyright (c) 2010 S. Karger AG, Basel.
3. Spontaneous hepatic rupture during third trimester of pregnancy.

Author(s): Peitsidou A, Peitsidis P, Contis J

Citation: Acta Chirurgica Belgica, July 2008, vol./is. 108/4(464-7), 0001-5458;0001-5458 (2008 Jul-Aug)

Publication Date: July 2008

Abstract: Hepatic rupture is a rare and devastating complication in pregnancy, mainly associated with pre-eclampsia and HELLP (Hemolysis, Elevated Liver enzymes, Low Platelet count). It has an incidence of 1 case in 45,000-225,000 births. Nearly 200 cases have been reported in the international literature. We report a case of a hepatic rupture with severe haemorrhage caused by HELLP in a third trimester pregnancy. The case was managed successfully with no pathological complications for either the mother or the infant. The physician should be aware of this condition when dealing with intra-abdominal haemorrhage during pregnancy.

Source: MEDLINE


Author(s): Dessole S, Capobianco G, Virdis P, Rubattu G, Cosmi E, Porcu A

Citation: Archives of Gynecology & Obstetrics, August 2007, vol./is. 276/2(189-92), 0932-0067;0932-0067 (2007 Aug)

Publication Date: August 2007

Abstract: BACKGROUND: Spontaneous hepatic rupture in pregnancy is rare and carries a high maternal and perinatal mortality. CASE REPORT: We describe a case of hepatic rupture that occurred after emergency caesarean section performed in a pregnant woman at 38 weeks of gestation with Hemolysis, Elevated Liver enzymes and Low Platelet count (HELLP) syndrome. The patient was discharged after 30 days of intensive therapy and four explorative laparotomies. Today, 2 years after delivery, the patient and her baby are doing well. CONCLUSION: Hepatic rupture in pregnancy is a rare event that may complicate HELLP syndrome. In this case, we were able to achieve an excellent clinical outcome by the performance of an immediately explorative laparotomy.

Source: MEDLINE

5. Surviving hepatic rupture in pregnancy--a literature review with an illustrative case report.

Author(s): Marsh FA, Kaufmann SJ, Bhabra K

Citation: Journal of Obstetrics & Gynaecology, March 2003, vol./is. 23/2(109-13), 0144-3615;0144-3615 (2003 Mar)
Publication Date: March 2003

Abstract: Spontaneous hepatic rupture in pregnancy is a rare condition associated with significant maternal and perinatal mortality. Patients developing pre-eclampsia and especially HELLP syndrome require close monitoring for prompt diagnosis of hepatic rupture. However, the presenting symptoms and signs, e.g. epigastric pain, shoulder pain, nausea and vomiting, are common. Thus a high index of suspicion and early evaluation with imaging is vitally important. The important lesson to be learnt is that a Pfannenstiel incision does not allow for adequate assessment of the liver. If hepatic rupture is suspected a second upper abdominal incision should be performed. Improved survival can be achieved through early recognition and a multidisciplinary approach.

Source: MEDLINE

6. Spontaneous hepatic rupture: a report of five cases.

Author(s): Mascarenhas R, Mathias J, Varadarajan R, Geoghegan J, Traynor O

Citation: HPB, 2002, vol./is. 4/4(167-70), 1365-182X;1365-182X (2002)

Publication Date: 2002

Abstract: BACKGROUND: Spontaneous hepatic rupture is a well recognised but rare condition. Because of the difficulty in diagnosis, it is often associated with a high mortality rate. Pregnant women with HELLP syndrome are more prone to hepatic rupture, but it can also occur with other liver pathology. Different modalities of treatment, including liver resection, packing, hepatic artery ligation and even liver transplantation have been described for this condition. PATIENTS AND RESULTS: We report a series of five cases, three of which were associated with pregnancy and two with no identifiable pathology. Pre-operative diagnosis was not made in any of these cases. Two of the five patients had hepatic resection, two had peri-hepatic packing and one was treated with laparoscopic drainage. DISCUSSION: From our experience we conclude that no single form of treatment is applicable to all cases of hepatic rupture. The treatment should be individualised, depending on the extent of hepatic rupture and the expertise available, to obtain best outcome.

Source: MEDLINE

Full Text:

Available in fulltext at National Library of Medicine

From TRIP Database:

Diagnosis and surgical management of spontaneous hepatic rupture associated with HELLP syndrome.


Characteristics and treatment of hepatic rupture caused by HELLP syndrome.
Liver transplantation for spontaneous intrapartum rupture of a hepatic adenoma.

Obstetrics and Gynecology 2009.

1. Characteristics and treatment of hepatic rupture caused by HELLP ...
   by ACPF Araujo - 2006 - Cited by 29 - Related articles
   Ten cases of hepatic rupture were identified. The median maternal age was 42.5 ± 5.9 years (median ± SD), and the median gestational age at delivery was ...

   Spontaneous Postpartum Subcapsular Liver Rupture
   by J Matheï - 2007 - Cited by 2 - Related articles
   Spontaneous hepatic rupture and maternal death following an uncomplicated pregnancy and delivery. BJOG, 2000, 108 : 431-3. 4. BIS K. A ,WAXMAN B. Rupture of ...

   Spontaneous Hepatic Rupture Associated with Preeclampsia

   ...