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Observational Study

Role of relaxin in diastasis of the pubic symphysis peripartum

Wang Y *et al.* Role of relaxin in peripartum pubic symphysis diastasis

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Jan 06, 2020 · INTRODUCTION. The **pubic symphysis** is a non-synovial joint that connects the right and left superior **pubic** rami with a normal radiographic separation width of 4 to 5 mm. Due to hormone-related changes and physiological alterations observed during pregnancy, the gap can increase by 2-3 mm and remain after delivery, such a separation is called physiological **pubic symphysis diastasis**.

Author: Kristina Norvilaite, Monika Kezeviciute... **Publish Year:** 2020

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Peripartum ligamentous relaxation with moderate widening of symphysis pubis and sacroiliac joints is physiologic and occurs regularly resulting in widening of the birth canal and facilitating delivery. This occurs **secondary to increased elasticity of the pelvic joints induced by an elevation in circulating progesterone and relaxin** .

Author: Shashidhar Boraiah, Shetty A. V. Kris... **Publish Year:** 2013

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<https://doi.org/10.3346/jkms.2014.29.2.281> ▾

Diastasis of the pubic symphysis is an uncommon **peripartum** complication that might result in a serious distress to the patient (1-3).The **diastasis** is considered to be related with hormonally induced ligamentous laxity (2, 4, 5).Clinical features and radiological findings of the **diastasis** have been well described in the literature (6-11).However, reported estimates of the frequency vary widely ...

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Peripartum ligamentous relaxation with moderate widening of the pubic symphysis and sacroiliac joints is physiologic and occurs regularly. It is thought to be **hormonally mediated by relaxin and progesterone** 2. Physiologic peripartum symphyseal widening ranges from 3-7 mm and often remains asymptomatic.

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Although there is a wide range reported for the incidence of peripartum pubic symphysis diastasis, a

Role of relaxin in diastasis of the pubic symphysis peripartum



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Author: Aaron J. Seidman, Marco A. Siccardi **Publish Year:** 2019

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A modulator of arterial compliance and cardiac output during pregnancy, relaxin also serves to **relax the pelvic ligaments and contribute to softening of the cartilage of the pubic symphysis for preparation of the birth canal for delivery**. As seen in most pelvic ring injuries that separate anteriorly at the pubic symphysis, there is often an associated posterior pelvic ring injury as well, with stretch, partial tears, or ...

Author: Aaron J. Seidman, Marco A. Siccardi **Publish Year:** 2019

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A separation of the **pubic symphysis** without concomitant fracture constitutes **pubic diastasis**. Excessive lateral or anterior movement can be seen secondary to **pubic diastasis** and this can further lead to **pubic symphysis** dysfunction. Clinical pre...

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During pregnancy, under the influence of hormones, particularly **relaxin**, the gap in the **symphysis pubis** can increase by at least 2-3 mm (6). In **pubic symphysis diastasis**, the separation of the right and left **pubic** rami RCR Radiology Case Reports | radiology.casereports.net may increase to a ...

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Peripartum Diastasis of the Symphysis Pubis | NEJM

https://www.nejm.org/doi/pdf/10.1056/NEJMicm0807117

Pelvic radiography showed a 23-mm **diastasis** of the **symphysis pubis** (arrow). The reported incidence of nontraumatic **diastasis** varies widely, from 1 in 300 pregnancies to 1 in 30,000 pregnancies.

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Pubic symphysis

The pubic symphysis is a secondary cartilaginous joint between the left and right superior rami of the pubis of the hip bones. It is located in front of and below the urinary bladder. In males, the suspensory ligament of the penis attaches to the pubic symphysis. In females, the pubic symphysis is close to the clitoris. In normal adults it can be moved roughly 2 mm and with 1 degree rotation. This increases for women at the time of childbirth.



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