

## What's New in Obstetric Anesthesia?

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### REFERENCES

- Ansari, J. R., Barad, M., Shafer, S., & Flood, P. (2021). Chronic disabling postpartum headache after unintentional dural puncture during epidural anaesthesia: a prospective cohort study. *British Journal of Anaesthesia*, 127(4), 600-607.
- Balki, M., Downey, K., Walker, A., Seaward, G., & Carvalho, J. C. (2021). Prophylactic administration of uterotonics to prevent postpartum hemorrhage in women undergoing cesarean delivery for arrest of labor: a randomized controlled trial. *Obstetrics & Gynecology*, 137(3), 505-513.
- Bauer, M. E., Arendt, K., Beilin, Y., Gernsheimer, T., Botero, J. P., James, A. H., ... & Leffert, L. (2021). The Society for Obstetric Anesthesia and Perinatology interdisciplinary consensus statement on neuraxial procedures in obstetric patients with thrombocytopenia. *Anesthesia & Analgesia*, 132(6), 1531-1544.
- Berger, A. A., Jordan, J., Li, Y., Kowalczyk, J. J., & Hess, P. E. (2022). Epidural catheter replacement rates with dural puncture epidural labor analgesia compared with epidural analgesia without dural puncture: a retrospective cohort study. *International Journal of Obstetric Anesthesia*, 52, 103590.
- Binyamin, Y., Heesen, P., Orbach-Zinger, S., Gozal, Y., Halimi, D., Frenkel, A., & Ioscovich, A. (2021). Chronic pain in parturients with an accidental dural puncture: A case-controlled prospective observational study. *Acta Anaesthesiologica Scandinavica*, 65(7), 959-966.
- Butwick, A. J., Abrams, D. A., & Wong, C. A. (2022). Epidural labour analgesia and autism spectrum disorder: is the current evidence sufficient to dismiss an association?. *British Journal of Anaesthesia*, 128(3), 393-398.
- Ducloy-Bouthors, A. S., Gilliot, S., Kyheng, M., Faraoni, D., Turbelin, A., Keita-Meyer, H., ... & Richart, P. (2022). Tranexamic acid dose–response relationship for antifibrinolysis in postpartum haemorrhage during Caesarean delivery: TRACES, a double-blind, placebo-controlled, multicentre, dose-ranging biomarker study. *British Journal of Anaesthesia*, 129(6), 937-945.
- El-Boghdadly, K., Desai, N., Halpern, S., Blake, L., Odor, P. M., Bampoe, S., ... & Sultan, P. (2021). Quadratus lumborum block vs. transversus abdominis plane block for caesarean delivery: a systematic review and network meta-analysis. *Anaesthesia*, 76(3), 393-403.
- García, P. S., & Brown IV, C. H. (2021). Phenylephrine or ephedrine for intraoperative hypotension? Consider the cerebral microcirculation. *Anesthesiology*, 135(5), 775-777.
- Guglielminotti, J., Wong, C. A., Landau, R., & Li, G. (2015). Temporal trends in anesthesia-related adverse events in cesarean deliveries, New York State, 2003- 2012. *Anesthesiology*, 123(5), 1013-1023.
- Hancock, A., Weeks, A. D., Furber, C., Campbell, M., & Lavender, T. (2021). The Recognition of Excessive blood loss At Childbirth (REACT) Study: a two-phase exploratory, sequential mixed

methods inquiry using focus groups, interviews and a pilot, randomised crossover study. *BJOG: An International Journal of Obstetrics & Gynaecology*, 128(11), 1843-1854.

- Joseph, K. S., Boutin, A., Lisonkova, S., Muraca, G. M., Razaz, N., John, S., ... & Schisterman, E. (2021). Maternal mortality in the United States: recent trends, current status, and future considerations. *Obstetrics and gynecology*, 137(5), 763.
- Ke, J. X. C., George, R. B., Wozney, L., & Munro, A. (2021). Perioperative mobile application for mothers undergoing Cesarean delivery: a prospective cohort study on patient engagement. *Canadian Journal of Anaesthesia*, 68(4), 505.
- Lupattelli, A., & Nordeng, H. (2022). Does Intrapartum Epidural Analgesia Increase the Risk of Autism Spectrum Disorder in Offspring? Most Likely Not. *JAMA Network Open*, 5(5), e2214279-e2214279.
- Liu, T., Zou, S., Guo, L., Niu, Z., Wang, M., Xu, C., ... & Qi, D. (2021). Effect of different positions during surgical preparation with combined spinal-epidural anesthesia for elective cesarean delivery: a randomized controlled trial. *Anesthesia & Analgesia*, 133(5), 1235-1243.
- Masse, N., Dexter, F., & Wong, C. A. (2022). Prophylactic Methylergonovine and Oxytocin Compared With Oxytocin Alone in Patients Undergoing Intrapartum Cesarean Birth: A Randomized Controlled Trial. *Obstetrics & Gynecology*, 140(2), 181-186.
- Meng, M. L., & Arendt, K. W. (2021). Obstetric anesthesia and heart disease: practical clinical considerations. *Anesthesiology*, 135(1), 164-183.
- Mhyre, J. M., & Bateman, B. T. (2015). Stemming the tide of obstetric morbidity: an opportunity for the anesthesiologist to embrace the role of peridelivery physician. *Anesthesiology*, 123(5), 986-989.
- Mims, S. C., Tan, H. S., Sun, K., Pham, T., Rubright, S., Kaplan, S. J., & Habib, A. S. (2022). Long-term morbidities following unintentional dural puncture in obstetric patients: a systematic review and meta-analysis. *Journal of Clinical Anesthesia*, 79, 110787.
- Murphy, M. S., Ducharme, R., Hawken, S., Corsi, D. J., Petreich, W., El-Chaâr, D., ... & Walker, M. C. (2022). Exposure to intrapartum epidural analgesia and risk of autism spectrum disorder in offspring. *JAMA Network Open*, 5(5), e2214273-e2214273.
- Niraj, G., Mushambi, M., Gauthama, P., Patil, A., Kelkar, A., Hart, E., ... & Laverdino, M. (2021). Persistent headache and low back pain after accidental dural puncture in the obstetric population: a prospective, observational, multicentre cohort study. *Anaesthesia*, 76(8), 1068-1076.
- Orbach-Zinger, S., Eidelman, L. A., Livne, M. Y., Matkovski, O., Mangoubi, E., Borovich, A., ... & Weiniger, C. F. (2021). Long-term psychological and physical outcomes of women after postdural puncture headache: a retrospective, cohort study. *European Journal of Anaesthesiology/ EJA*, 38(2), 130-137.
- Qiu, C., Lin, J. C., Shi, J. M., Chow, T., Desai, V. N., Nguyen, V. T., ... & Xiang, A. H. (2020). Association between epidural analgesia during labor and risk of autism spectrum disorders in offspring. *JAMA pediatrics*, 174(12), 1168-1175.

- Ren, T., Zhang, J., Yu, Y., Pedersen, L. H., Wang, H., Li, F., ... & Li, J. (2022). Association of labour epidural analgesia with neurodevelopmental disorders in offspring: a Danish population-based cohort study. *British Journal of Anaesthesia*, *128*(3), 513-521.
- Seifert, S. M., Lumbreras-Marquez, M. I., Goobie, S. M., Carusi, D. A., Fields, K. G., Bateman, B. T., & Farber, M. K. (2022). Tranexamic acid administered during cesarean delivery in high-risk patients: maternal pharmacokinetics, pharmacodynamics, and coagulation status. *American Journal of Obstetrics and Gynecology*, *227*(5), 763-e1.
- Sentilhes, L., Sénat, M. V., Le Lous, M., Winer, N., Rozenberg, P., Kayem, G., ... & Deneux-Tharaux, C. (2021). Tranexamic acid for the prevention of blood loss after cesarean delivery. *New England Journal of Medicine*, *384*(17), 1623-1634.
- Singh, N. P., Monks, D., Makkar, J. K., Palanisamy, A., Sultan, P., & Singh, P. M. (2022). Efficacy of regional blocks or local anaesthetic infiltration for analgesia after caesarean delivery: a network meta-analysis of randomised controlled trials. *Anaesthesia*, *77*(4), 463-474.
- Sharawi, N., Bansal, P., Williams, M., Spencer, H., & Mhyre, J. M. (2021). Comparison of chloroprocaine versus lidocaine with epinephrine, sodium bicarbonate, and fentanyl for epidural extension anesthesia in elective cesarean delivery: a randomized, triple-blind, noninferiority study. *Anesthesia & Analgesia*, *132*(3), 666-675.
- Song, Y., Du, W., Zhou, S., Zhou, Y., Yu, Y., Xu, Z., & Liu, Z. (2021). Effect of dural puncture epidural technique combined with programmed intermittent epidural bolus on labor analgesia onset and maintenance: a randomized controlled trial. *Anesthesia & Analgesia*, *132*(4), 971-978.
- Stolk, R. F., Naumann, F., van der Pasch, E., Schouwstra, J., Bressers, S., van Herwaarden, A. E., ... & Kox, M. (2021). Phenylephrine impairs host defence mechanisms to infection: a combined laboratory study in mice and translational human study. *British journal of anaesthesia*, *126*(3), 652-664.
- Toledo, P., Singh, P. M., & Sultan, P. (2021). Can noninferior be superior?. *Anesthesia & Analgesia*, *132*(3), 663-665.
- Wall-Wieler, E., Bateman, B. T., Hanlon-Dearman, A., Roos, L. L., & Butwick, A. J. (2021). Association of epidural labor analgesia with offspring risk of autism spectrum disorders. *JAMA pediatrics*, *175*(7), 698-705.
- Wong, C. A., & Stevens, H. (2021). Labor epidural analgesia and autism spectrum disorder: is there an association?. *JAMA*, *326*(12), 1155-1157.
- Yao, H. Q., Huang, J. Y., Deng, J. L., Liu, L., Ai, L., Kee, W. D. N., & Xiao, F. (2023). Randomized Assessment of the Optimal Time Interval Between Programmed Intermittent Epidural Boluses When Combined With the Dural Puncture Epidural Technique for Labor Analgesia. *Anesthesia and Analgesia*, *136*(3), 532.