

Stanford



Edward Riley

Professor of Anesthesiology, Perioperative and Pain Medicine (OB) and, by courtesy, of Obstetrics and Gynecology at the Stanford University Medical Center

CLINICAL OFFICES

- **Anesthesia**

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Bio

BIO

Dr. Riley is a member of the Obstetric Anesthesia Division. He was the chief of the division for 12 years. His research interests focus on quality improvement and clinical questions relevant to obstetric anesthesia. He also has strong interest in international medicine. He is a board member and active clinician with the International Eye Institute and is active with Kybele (an international obstetric anesthesia outreach program),

CLINICAL FOCUS

- Anesthesia
- Anesthesia, Obstetrics

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Anesthesiology, Perioperative and Pain Medicine
- Professor - Med Center Line (By courtesy), Obstetrics & Gynecology

PROFESSIONAL EDUCATION

- Residency: Stanford University School of Medicine Registrar (1993) CA
- Residency: Stanford University School of Medicine Registrar (1992) CA
- Internship: Emanuel Hospital and Health Ctr (1990) OR
- Medical Education: University of Washington School of Medicine (1989) WA
- Board Certification: Anesthesia, American Board of Anesthesiology (1994)

Publications

PUBLICATIONS

- **Intra-aortic Balloon Pump for Cesarean Hysterectomy and Massive Hemorrhage in a Parturient with Placenta Accreta and Pulmonary Embolus** *JOURNAL OF MEDICAL ULTRASOUND*
Riley, E. T., Akbar, K., Carvalho, B.

2019; 27 (2): 104–6

- **The Crystalloid Co-Load: Clinically as Effective as Colloid Preload for Preventing Hypotension from Spinal Anaesthesia for Caesarean Delivery** *TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION*
Riley, E. T., Mangum, K., Carvalho, B., Butwick, A. J.
2019; 47 (1): 35–40
- **The Crystalloid Co-Load: Clinically as Effective as Colloid Preload for Preventing Hypotension from Spinal Anaesthesia for Caesarean Delivery.** *Turkish journal of anaesthesiology and reanimation*
Riley, E. T., Mangum, K., Carvalho, B., Butwick, A. J.
2019; 47 (1): 35–40
- **Impact of a post-caesarean analgesia order-set with split doses of oral opioids**
Nanji, J. A., Guo, N., Riley, E. T., Carvalho, B.
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- **Evaluation of Opioid Use With Split Doses of Oral Opioids in a Postcesarean Delivery Analgesia Order Set.** *Obstetrics and gynecology*
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- **Intra-aortic Balloon Pump for Cesarean Hysterectomy and Massive Hemorrhage in a Parturient with Placenta Accreta and Pulmonary Embolus.** *Journal of medical ultrasound*
Riley, E. T., Akbar, K., Carvalho, B.
2019; 27 (2): 104–6
- **Transesophageal Echocardiographic Observation of Caval Thrombus Followed by Intraoperative Placement of Inferior Vena Cava Filter for Presumed Pulmonary Embolism During Cesarean Hysterectomy for Placenta Percreta: A Case Report.** *A&A practice*
Nanji, J. A., Ansari, J. R., Yurashevich, M., Ismawan, J. M., Lyell, D. J., Karam, A. K., Hovsepian, D. M., Riley, E. T.
2018
- **Left Uterine Tilt for Cesarean Delivery Significantly Improves Maternal Hemodynamics and Should Not Be Considered Outdated** *Dogma ANESTHESIOLOGY*
Riley, E. T., Dyer, R. A., Carvalho, B.
2018; 128 (4): 858–59
- **Comment on Arachnoid and Dura Mater Lesions.** *Regional anesthesia and pain medicine*
Riley, E. T.
2018; 43 (3): 332
- **Cost-benefit Analysis of Maintaining a Fully Stocked Malignant Hyperthermia Cart versus an Initial Dantrolene Treatment Dose for Maternity Units.** *Anesthesiology*
Ho, P. T., Carvalho, B., Sun, E. C., Macario, A., Riley, E. T.
2018
- **Programmed Intermittent Epidural Boluses (PIEB) for Maintenance of Labor Analgesia: An Incremental Step Before the Next Paradigm Shift?** *Turkish journal of anaesthesiology and reanimation*
Carvalho, B., Riley, E. T.
2017; 45 (2): 73–75
- **Comment on Montenegro et al., "Cumulative Head Impact Exposure Predicts Later-Life Depression, Apathy, Executive Dysfunction, and Cognitive Impairment in Former High School and College Football Players"** *JOURNAL OF NEUROTRAUMA*
Riley, E. T.
2017; 34 (7): 1490
- **Programmed Intermittent Epidural Boluses (PIEB) for Maintenance of Labor Analgesia: A Superior Technique to Continuous Epidural Infusion?** *Turkish journal of anaesthesiology and reanimation*
Riley, E. T., Carvalho, B.
2017; 45 (2): 65–66
- **Risk Factors for Severe Postpartum Hemorrhage After Cesarean Delivery: Case-Control Studies.** *Anesthesia and analgesia*
Butwick, A. J., Ramachandran, B., Hegde, P., Riley, E. T., El-Sayed, Y. Y., Nelson, L. M.

2017

- **Effect of a High-Rate Versus a Low-Rate Oxytocin Infusion for Maintaining Uterine Contractility During Elective Cesarean Delivery: A Prospective Randomized Clinical Trial.** *Anesthesia and analgesia*
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- **Intrathecal Migration of an Epidural Catheter While Using a Programmed Intermittent Epidural Bolus Technique for Labor Analgesia Maintenance: A Case Report.** *A & A case reports*
Betti, F., Carvalho, B., Riley, E. T.
2017
- **Nitrous oxide for labor analgesia: Utilization and predictors of conversion to neuraxial analgesia.** *Journal of clinical anesthesia*
Sutton, C. D., Butwick, A. J., Riley, E. T., Carvalho, B.
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- **Implementation of Programmed Intermittent Epidural Bolus for the Maintenance of Labor Analgesia.** *Anesthesia and analgesia*
Carvalho, B., George, R. B., Cobb, B., McKenzie, C., Riley, E. T.
2016; 123 (4): 965-971
- **Chronic Traumatic Encephalopathy and Professional Athletes: Suicides are Contagious** *WORLD NEUROSURGERY*
Riley, E. T.
2016; 94: 576–77
- **Reply to Dr Kumar.** *Regional anesthesia and pain medicine*
McKenzie, C. P., Carvalho, B., Riley, E. T.
2016; 41 (4): 547-?
- **The Wiley Spinal Catheter-Over-Needle System for Continuous Spinal Anesthesia A Case Series of 5 Cesarean Deliveries Complicated by Paresthesias and Headaches** *REGIONAL ANESTHESIA AND PAIN MEDICINE*
McKenzie, C. P., Carvalho, B., Riley, E. T.
2016; 41 (3): 405-410
- **Programmed intermittent epidural boluses for maintenance of labor analgesia: an impact study** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
McKenzie, C. P., Cobb, B., Riley, E. T., Carvalho, B.
2016; 26: 32-38
- **Scheduled acetaminophen with as-needed opioids compared to as-needed acetaminophen plus opioids for post-cesarean pain management.** *International journal of obstetric anesthesia*
Valentine, A. R., Carvalho, B., Lazo, T. A., Riley, E. T.
2015; 24 (3): 210-216
- **Elective cesarean section at 38 weeks versus 39 weeks: neonatal and maternal outcomes in a randomised controlled trial reply** *BJOG-AN INTERNATIONAL JOURNAL OF OBSTETRICS AND GYNAECOLOGY*
Cho, Y., Carvalho, B., Butwick, A., Blumenfeld, Y., Riley, E.
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- **Elective cesarean section at 38 weeks versus 39 weeks: neonatal and maternal outcomes in a randomised controlled trial.** *BJOG : an international journal of obstetrics and gynaecology*
Cho, Y., Carvalho, B., Butwick, A., Blumenfeld, Y., Riley, E.
2014; 121 (13): 1748-?
- **Serious complications related to obstetric anesthesia: the serious complication repository project of the society for obstetric anesthesia and perinatology.** *Anesthesiology*
D'Angelo, R., Smiley, R. M., Riley, E. T., Segal, S.
2014; 120 (6): 1505-1512
- **Preferred spoken language mediates differences in neuraxial labor analgesia utilization among racial and ethnic groups.** *International journal of obstetric anesthesia*
Caballero, J. A., Butwick, A. J., Carvalho, B., Riley, E. T.

2014; 23 (2): 161-167

- **On-time scheduled cesarean delivery start time process-improvement initiative.** *Obstetrics and gynecology*
Blumenfeld, Y. J., Riley, E., Hilton, G., Lee, H. C., El-Sayed, Y. Y., Druzin, M. L.
2014; 123: 138S-9S
- **Analgesic and sympatholytic effects of low-dose intrathecal clonidine compared with bupivacaine: a dose-response study in female volunteers.** *British journal of anaesthesia*
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- **Analgesic and sympatholytic effects of low-dose intrathecal clonidine compared with bupivacaine: a doseresponse study in female volunteers** *BRITISH JOURNAL OF ANAESTHESIA*
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- **Peripartum outcomes and anaesthetic management of parturients with moderate to complex congenital heart disease or pulmonary hypertension** *ANAESTHESIA*
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- **Intrathecal morphine 100 and 200 mu g for post-cesarean delivery analgesia: a trade-off between analgesic efficacy and side effects** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
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- **Subdural hematoma after an epidural blood patch** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
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- **Spinal anaesthesia for caesarean delivery in a parturient with babesiosis and Lyme disease** *ANAESTHESIA*
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- **Intrathecal fentanyl added to bupivacaine and morphine for cesarean delivery may induce a subtle acute opioid tolerance** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
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Hilton, G., Jette, C. G., Ouyang, Y., Riley, E. T.
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- **ED50 and ED95 of Intrathecal Bupivacaine in Morbidly Obese Patients Undergoing Cesarean Delivery** *ANESTHESIOLOGY*
Carvalho, B., Collins, J., Drover, D. R., Ralls, L. A., Riley, E. T.
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- **Retrospective analysis of anesthetic interventions for obese patients undergoing elective cesarean delivery** *JOURNAL OF CLINICAL ANESTHESIA*
Butwick, A., Carvalho, B., Danial, C., Riley, E.
2010; 22 (7): 519-526
- **Minimum effective bolus dose of oxytocin during elective Caesarean delivery** *BRITISH JOURNAL OF ANAESTHESIA*

- Butwick, A. J., Coleman, L., Cohen, S. E., Riley, E. T., Carvalho, B.
2010; 104 (3): 338-343
- **Analgesic requirements and postoperative recovery after scheduled compared to unplanned cesarean delivery: a retrospective chart review** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Carvalho, B., Coleman, L., Saxena, A., Fuller, A. J., Riley, E. T.
2010; 19 (1): 10-15
 - **Survey of the Factors Associated with a Woman's Choice to Have an Epidural for Labor Analgesia.** *Anesthesiology research and practice*
Harkins, J., Carvalho, B., Evers, A., Mehta, S., Riley, E. T.
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 - **Retrospective analysis of transfusion outcomes in pregnant patients at a tertiary obstetric center** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Butwick, A. J., Aleshi, P., Fontaine, M., Riley, E. T., GOODNOUGH, L. T.
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 - **Hetastarch co-loading is as effective as pre-loading for the prevention of hypotension following spinal anesthesia for cesarean delivery** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Carvalho, B., Mercier, F. J., Riley, E. T., Brummel, C., Cohen, S. E.
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 - **Successful pregnancy and cesarean delivery via noninvasive ventilation in mitochondrial myopathy** *JOURNAL OF PERINATOLOGY*
Yuan, N., El-Sayed, Y. Y., Ruoss, S. J., Riley, E., Enns, G. M., Robinson, T. E.
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 - **Accidental intrathecal sufentanil overdose during combined spinal-epidural analgesia for labor** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Coleman, L., Carvalho, B., Lipman, S., Schmiesing, C., Riley, E.
2009; 18 (1): 78-80
 - **A Randomized Trial of Maximum Cephalad Sensory Blockade with Single-Shot Spinal Compared with Combined Spinal-Epidural Techniques for Cesarean Delivery** *39th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Horstman, D. J., Riley, E. T., Carvalho, B.
LIPPINCOTT WILLIAMS & WILKINS.2009: 240-45
 - **Extended release epidural morphine, far from ideal for postcesarean delivery pain control - In Response** *ANESTHESIA AND ANALGESIA*
Carvalho, B., Riley, E.
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 - **Randomized comparison of intravenous terbutaline vs nitroglycerin for acute intrapartum fetal resuscitation** *27th Annual Meeting of the Society-of-Maternal-Fetal-Medicine*
Pullen, K. M., Riley, E. T., Waller, S. A., Taylor, L., Caughey, A. B., Druzin, M. L., El-Sayed, Y. Y.
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 - **The Episure (TM) syringe: A novel loss of resistance syringe for locating the epidural space** *37th Annual Meeting of the Society-of-Obstetric-Anesthesiology-and-Perinatology*
Riley, E. T., Carvalho, B.
LIPPINCOTT WILLIAMS & WILKINS.2007: 1164-66
 - **Fetal oxygen saturation after combined spinal-epidural Labor analgesia: a case series** *JOURNAL OF CLINICAL ANESTHESIA*
Carvalho, B., Fuller, A. I., Brummel, C., Durbin, M., Riley, E. T.
2007; 19 (6): 476-478
 - **How we treat: management of life-threatening primary postpartum hemorrhage with a standardized massive transfusion protocol** *TRANSFUSION*
Burtelow, M., Riley, E., Druzin, M., Fontaine, M., Viele, M., Goodnough, L. T.
2007; 47 (9): 1564-1572
 - **Successful spinal blockade in a parturient with myotonia congenita** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Butwick, A. J.
2007; 16 (3): 292-293

- **Single-dose, extended-release epidural morphine (DepoDur (TM)) compared to conventional epidural morphine for post-cesarean pain** *ANESTHESIA AND ANALGESIA*
Carvalho, B., Roland, L. M., Chu, L. F., Campitelli, V. A., Riley, E. T.
2007; 105 (1): 176-183
- **Obstetric anesthesia controversies: vasopressor choice for postspinal hypotension during cesarean delivery.** *International anesthesiology clinics*
Macarthur, A., Riley, E. T.
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- **Terbutaline versus nitroglycerin for acute intrapartum fetal resuscitation**
Pullen, K., Taylor, L., Waller, S., Langen, E., Druzin, M., Riley, E., Caughey, A., El-Sayed, Y.
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- **Experimental heat pain for detecting pregnancy-induced analgesia in humans** *ANESTHESIA AND ANALGESIA*
Carvalho, B., Angst, M. S., Fuller, A. J., Lin, E., Mathusamy, A. D., Riley, E. T.
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- **Valdecoxib for postoperative pain management after cesarean delivery: A randomized, double-blind, placebo-controlled study** *37th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Carvalho, B., Chu, L., Fuller, A., Cohen, S. E., Riley, E. T.
LIPPINCOTT WILLIAMS & WILKINS.2006: 664-70
- **Single-dose extended-release epidural morphine for pain after hip arthroplasty.** *Journal of opioid management*
Martin, G., Hartmannsgruber, M., Riley, E., Manvelian, G.
2006; 2 (4): 209-218
- **Epidural anesthesia for elective cesarean delivery with intraoperative arterial occlusion balloon catheter placement** *36th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Fuller, A. J., Carvalho, B., Brummel, C., Riley, E. T.
LIPPINCOTT WILLIAMS & WILKINS.2006: 585-87
- **Recombinant factor VIIa for life-threatening post-partum haemorrhage** *BRITISH JOURNAL OF ANAESTHESIA*
Butwick, A. J., Riley, E. T.
2005; 95 (4): 558-558
- **The ED50 and ED95 of intrathecal isobaric bupivacaine with opioids for cesarean delivery** *ANESTHESIOLOGY*
Carvalho, B., Durbin, M., Drover, D. R., Cohen, S. E., Ginosar, Y., Riley, E. T.
2005; 103 (3): 606-612
- **"Ultra-light" patient-controlled epidural analgesia during labor: effects of varying regimens on analgesia and physician workload** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Carvalho, B., Cohen, S. E., Giarrusso, K., Durbin, M., Riley, E. T., Lipman, S.
2005; 14 (3): 223-229
- **A survey of labor patient-controlled epidural anesthesia practice in Californian hospitals** *37th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Carvalho, B., Wang, P., Riley, E. T., Cohen, S. E.
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- **Valdecoxib for postoperative pain management after cesarean section: A randomized, double-blinded, placebo controlled study** *37th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
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- **Single-dose, sustained-release epidural morphine in the management of postoperative pain after elective Cesarean delivery: Results of a multicenter randomized controlled study** *ANESTHESIA AND ANALGESIA*
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- **Randomized comparison of intravenous nitroglycerin and subcutaneous terbutaline for external cephalic version under tocolysis** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*

- El-Sayed, Y. Y., Pullen, K., Riley, E. T., Lyell, D., Druzin, M. L., Cohen, S. E., Chitkara, U.
2004; 191 (6): 2051-2055
- **Preloading vs. postloading of colloid for the prevention of hypotension after spinal anesthesia for cesarean section** *36th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Brummel, C., Mercier, F., Fuller, A., Mathusamy, A., Lipman, S., Cohen, S. E., Riley, E. T.
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 - **Pain tolerance in pregnancy** *36th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Fuller, A. J., Lin, E., Mathusamy, A., Carvalho, B., Angst, M., Golianu, B. Y., Riley, E. T.
LIPPINCOTT WILLIAMS & WILKINS.2004: B9–B9
 - **ED50 and ED95 of intrathecal hyperbaric bupivacaine coadministered with opioids for cesarean delivery** *Annual Meeting of the American-Society-of-Anesthesiologists*
Ginosar, Y., Mirikitani, E., Drover, D. R., Cohen, S. E., Riley, E. T.
LIPPINCOTT WILLIAMS & WILKINS.2004: 676–82
 - **Neonatal chest wall rigidity following the use of remifentanyl for cesarean delivery in a patient with autoimmune hepatitis and thrombocytopenia** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Carvalho, B., Mirikitani, E. J., Lyell, D., Evans, D. A., Druzin, A., Riley, E. T.
2004; 13 (1): 53-56
 - **The site of action of epidural fentanyl in humans: The difference between infusion and bolus administration** *Annual Meeting of the Society-of-Obstetric-Anesthesiology-and-Perinatology*
Ginosar, Y., Riley, E. T., Angst, M. S.
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 - **The site of action of epidural fentanyl infusions in the presence of local anesthetics: A minimum local analgesic concentration infusion study in nulliparous labor** *Annual Meeting of the Society-of-Obstetric-Anesthesiology-and-Perinatology*
Ginosar, Y., Columb, M. O., Cohen, S. E., Mirikitani, E., Tingle, M. S., Ratner, E. F., Angst, M. S., Riley, E. T.
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 - **A study to assess the efficacy and safety of spinal levobupivacaine with and without fentanyl for labor analgesia** *35th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Bimbach, D. J., Riley, E. T., Cohen, S. E., Mirikitani, E., D'Angelo, R., Sharma, S. K., Arkoosh, V. A., Stein, D. J., Browne, I. M., Kerimoglu, B., Palmer, C. M.
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 - **"Ultra-light" PCEA techniques in labor: Minimizing physician workload while optimizing outcome** *35th Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Carvalho, B., Giarrusso, K., Durbin, M., Lipman, S., Rohlf, S., Riley, E. T., Cohen, S. E.
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 - **A comparison of the 24-gauge Sprotte (R) and Gertie Marx (R) spinal needles for combined spinal-epidural analgesia during labor** *ANESTHESIOLOGY*
Riley, E. T., Hamilton, C. L., Ratner, E. F., Cohen, S. E.
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 - **Epidural catheter function during labor predicts anesthetic efficacy for subsequent cesarean delivery** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
Riley, E. T., Papasin, J.
2002; 11 (2): 81-84
 - **Phenylephrine added to prophylactic ephedrine infusion during spinal anesthesia for elective cesarean section** *Annual Meeting of the American-Society-of-Anesthesiologists*
Mercier, F. J., Riley, E. T., Frederickson, W. L., Roger-Christoph, S., Benhamou, D., Cohen, S. E.
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 - **Cost-effectiveness of a trial of labor after previous cesarean** *OBSTETRICS AND GYNECOLOGY*
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 - **Analgesia for labor pain: A cost model** *Annual Meeting of the American-Society-of-Anesthesiologists*
Macario, A., Scibetta, W. C., Navarro, J., Riley, E.
LIPPINCOTT WILLIAMS & WILKINS.2000: 841-50
 - **Walking with labor epidural analgesia - The impact of bupivacaine concentration and a lidocaine-epinephrine test dose** *Annual Meeting of the Society-for-Obstetric-Anesthesia-and-Perinatology*
Cohen, S. E., Yeh, J. Y., Riley, E. T., Vogel, T. M.
LIPPINCOTT WILLIAMS & WILKINS.2000: 387-92
 - **Lumbar epidural morphine in humans and supraspinal analgesia to experimental heat pain** *ANESTHESIOLOGY*
Angst, M. S., Ramaswamy, B., Riley, E. T., Stanski, D. R.
2000; 92 (2): 312-324
 - **Complications of labor epidural analgesia: How much risk are patients willing to accept?**
Vogel, T. M., Riley, E. T., Johnson, K., Cohen, S. E.
LIPPINCOTT WILLIAMS & WILKINS.1999: U437-U437
 - **Complications of labor epidural analgesia: How much risk are patients willing to accept?**
Vogel, T. M., Riley, E. T., Johnson, K., Cohen, S. E.
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 - **Randomized comparison of intravenous nitroglycerin and magnesium sulfate for treatment of preterm labor** *OBSTETRICS AND GYNECOLOGY*
El-Sayed, Y. Y., Riley, E. T., Holbrook, R. H., Cohen, S. E., Chitkara, U., Druzin, M. L.
1999; 93 (1): 79-83
 - **Obstetric postanesthesia care unit stays - Reevaluation of discharge criteria after regional anesthesia** *Annual Meeting of the American-Society-of-Anesthesiologists*
Cohen, S. E., Hamilton, C. L., Riley, E. T., Walker, D. S., Macario, A., Halpern, J. W.
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 - **Complications of labor epidural analgesia: Do the perceptions of patients and anesthesiologists differ?**
Vogel, T. M., Riley, E. T., Cohen, S. E., Johnson, K.
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 - **Intrathecal sufentanil produces sensory changes without hypotension in male volunteers** *46th Annual Meeting of the American-Society-of-Anesthesiologists*
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