

**Conclusions** Following injections in erector spinae plane, there was no spread of the dye anteriorly to the paravertebral space and it only involved the dorsal rami. Inter-ligamentous space injection appears to be the most promising block in future as the dye spread both anteriorly to paravertebral space and posteriorly toward the erector spinae plane.

EP221

#### BETWEEN A ROCK AND A HARD PLACE: EPIDURAL ANESTHESIA FOR A CAESAREAN DELIVERY IN A WOMAN WITH DIAPHRAGMATIC PARALYSIS – A CASE REPORT

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**Background and Aims** Diaphragmatic paralysis (DP) can pose challenges during caesarean delivery (CD), as it may increase the risk of respiratory complications. While there is limited information on anesthesia techniques for patients with DP, central nerve blocks sparing upper intercostal muscles have been utilised in similar procedures.

**Methods** A 20-year-old woman with idiopathic diaphragmatic paralysis who required an emergent CD due to persistent variable fetal decelerations and intrapartum fever in the labour ward. Diaphragmatic paralysis was incidentally discovered during investigations for recurrent syncope, with no identifiable cause. The patient had a functional capacity of 5 METs. Epidural anesthesia (EA) was performed using titrated ropivacaine 0.75% through an epidural catheter, which had been placed at the beginning of the first stage of labor, 12 hours prior to the development of fever. A total volume of 14mL of ropivacaine was administered. Standard ASA monitoring, multimodal analgesia, and broad-spectrum antibiotics were employed.

**Results** The patient remained hemodynamically stable and ventilated spontaneously throughout an uneventful CD. No respiratory or neurological complications were observed in the postoperative period.

**Conclusions** The compressive effect of the dural sac allowed us to limit the spread of local anaesthetic, sparing upper thoracic myotomes. Although EA is an option in patients with diaphragmatic paralysis, decisions should be tailored to individual cases. Further studies are needed to evaluate the impact of EA on patients with diaphragm lung paralysis and other restrictive lung diseases.

EP222

#### TRIPLE BLOCK VS SPINAL ANAESTHESIA VS GENERAL ANAESTHESIA FOR TOTAL KNEE REPLACEMENT IN HIGH RISK PATIENTS: PERIOPERATIVE HEMODYNAMIC STABILITY, COMPLICATION AND COSTS

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**Application for ESRA Abstract Prizes:** I apply as an Anesthesiologist (Aged 35 years old or less)

**Background and Aims** This study compares perioperative complications of patients undergoing general anaesthesia (GA), spinal anaesthesia (SA) or isolated peripheral triple nerve blocks (NB) for total knee replacement surgery in high risk patients.

**Methods** In this retrospective single center study, 329 patients (ASA $\geq$ III), scheduled for elective total knee replacement between 2014 and 2020 were included. All patients received a femoral catheter and a proximal sciatica nerve block for perioperative analgesia. Patients in the NB group received an additional obturator nerve block. Due to failure resulting from insufficient block or patients expressing their wish for a general anaesthesia, patients were assigned according to the definitive anaesthesia method. There were 22 individuals in the NB-, 171 patients in the SA – and 136 patients in the GA group. Perioperative parameters, events and costs were compared. Differences between groups were compared using the chi-square test.

**Results** The NB group showed a significantly better haemodynamic stability intraoperatively with less vasopressor consumption, respectively less relevant hypotension. In 73% of patients in the NB group a PACU-Bypass was achieved (vs 34% in SA group vs 13% in GA group). This influenced the overall costs positively. Remarkably, during the initial 24 hours, no episodes with severe pain (visual analog scale score > 30) were observed in the NB group. Regarding other postoperative complications we could not observe a statistically significant difference.

**Conclusions** In summary, the use of triple block as an isolated technique for total knee replacement surgery in specific high-risk patients appears to be a safe option with less haemodynamic complications.

## ePoster session 7 – Station 2

EP223

#### HIGH THORACIC ERECTOR SPINAE PLANE BLOCK FOR SHOULDER ARTHROSCOPY: CASE SERIES

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**Background and Aims** Arthroscopic shoulder surgery is associated with moderate/severe postoperative pain, which may prevent rehabilitation of patients and increase hospital stay. Erector spinae plane block (ESPB) is a block in which different levels of local anesthetic (LA) are applied between the erector spinae muscle and the transverse process of the vertebrae. We aimed to present the analgesic effect of the block in the first 24 hours postoperatively in 10 patients to whom we applied ESPB at T2-T3 level for analgesia in shoulder surgery.

**Methods** Patients written consent was obtained. Ultrasound guided ESPB was performed at T2-T3 level in 10 patients with ASA I, II who will undergo shoulder surgery under general anesthesia. Anesthesia was maintained with sevoflurane-air and remifentanyl iv infusion according to hemodynamic parameters. Paracetamol, dexketoprofen iv was administered to the patients in the perioperative period. Patients 0, 1, 6, 12, 24 h, NRS scores were recorded.

**Results** Ten patients aged 33-75 (male/female = 5/5; mean age = 58.3 [SD = 16.5] ) were included in the case series. The distribution of sensory nerve blockade varied between C2 and C7 in the anterolateral region, between T2 and T7 in the posterior region. The mean surgical time was 85.4 minutes.