

FLEXTIP PLUS® EPIDURAL CATHETER

CLINICAL BIBLIOGRAPHY

The Arrow® FlexTip Plus® epidural catheter is clinically proven to provide a significant reduction in complications commonly associated with epidural catheters — and is the only coil-reinforced epidural catheter backed by more than 15 years of clinical evidence.

Following is a listing of major studies in these areas. For additional information on the FlexTip Plus epidural catheter technology, please visit www.flextipplus.com, contact your Teleflex Anesthesia sales representative, or call Customer Service at 800.523.8446 or 610.378.0131.

REDUCED VESSEL PUNCTURE

TITLE: DECREASED INCIDENCE OF COMPLICATIONS IN PARTURIENTS WITH THE ARROW (FLEXTIP PLUS) EPIDURAL CATHETER.

Source: *Canadian Journal of Anaesthesia*. 1998; 45: 370-72.

Authors: Banwell B, Morley-Forster P, Krause R.

TITLE: ARROW VERSUS B. BRAUN® EPIDURAL CATHETER FOR EPIDURAL BLOCK IN OBSTETRIC PATIENTS.

Source: *Anesthesiology*. 2004; 101: A1199.

Authors: Cohen S, et al.

TITLE: SUTURED EPIDURAL CATHETER FOR EPIDURAL BLOCK IN OBSTETRIC PATIENTS: "ARROW" VERSUS "B. BRAUN."

Source: *Anesthesiology*. 2006; 105: A904.

Authors: Cohen S, et al.

TITLE: EFFICACY AND COMPLICATIONS OF TWO TYPES OF EPIDURAL CATHETERS FOR OBSTETRIC ANESTHESIA.

Source: Presentation at the Western Anesthesia Residents Conference, Universal City, CA. 1997.

Authors: Cross J, Hayashi R.

TITLE: UNIPOINT SOFT-TIPPED, OPEN-ENDED CATHETERS VERSUS MULTIPOINT FIRM-TIPPED CLOSE-ENDED CATHETERS FOR EPIDURAL LABOR ANALGESIA: A QUALITY ASSURANCE STUDY.

Source: *Journal of Clinical Anesthesia*. 2000; 12: 89-93.

Authors: Jaime F, et al.

TITLE: INCIDENCE OF EPIDURAL VEIN CANNULATION IN PARTURIENTS WITH THREE DIFFERENT EPIDURAL CATHETERS.

Source: *Regional Anesthesia & Pain Medicine*. 1996; 21 (2): 4.

Authors: Juneja M, et al.

TITLE: A SYSTEMATIC REVIEW OF RANDOMIZED CONTROLLED TRIALS THAT EVALUATE STRATEGIES TO AVOID EPIDURAL VEIN CANNULATION DURING OBSTETRIC EPIDURAL CATHETER PLACEMENT.

Source: *Anesthesia & Analgesia*. 2009; 108: 1232-1242.

Authors: Mhyre, Jill M, et al.

- The coil-reinforced FlexTip Plus epidural catheter is constructed of polyurethane, while the majority of other springwound catheters are made of nylon. This provides a unique balance of softness and strength.
- Considerable research has been conducted and published showing the unique design of the FlexTip Plus epidural catheter helps reduce vessel puncture, paresthesia, and catheter migration.
- Reduction of the aforementioned complications can help save significant amounts of cost and time, and improve patient comfort and quality of care.

REDUCED PARESTHESIA

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Authors: Banwell B, Morley-Forster P, Krause R.

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Authors: Cross J, Hayashi R.

TITLE: UNIPOINT SOFT-TIPPED, OPEN-ENDED CATHETERS VERSUS MULTIPOINT FIRM-TIPPED CLOSE-ENDED CATHETERS FOR EPIDURAL LABOR ANALGESIA: A QUALITY ASSURANCE STUDY.

Source: *Journal of Clinical Anesthesia*. 2000; 12: 89-93.

Authors: Jaime F, et al.

TITLE: COMPARISON OF EPIDURAL CATHETERS INDUCED PARESTHESIA IN PARTURIENTS.

Source: *Regional Anesthesia & Pain Medicine*. 1995; 20 (2): 152.

Authors: Juneja M, et al.

REDUCED CATHETER MIGRATION

TITLE: DECREASED INCIDENCE OF COMPLICATIONS IN PARTURIENTS WITH THE ARROW (FLEXTIP PLUS®) EPIDURAL CATHETER.

Source: *Canadian Journal of Anaesthesia*. 1998; 45: 370-72.

Authors: Banwell B, Morley-Forster P, Krause R.

TITLE: ARROW VERSUS B. BRAUN EPIDURAL CATHETER FOR EPIDURAL BLOCK IN OBSTETRIC PATIENTS.

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Source: *Anesthesiology*. 2006; 105: A904.

Authors: Cohen S, et al.

LOW RISK OF CATHETER SEPARATION

TITLE: TENSILE STRENGTH OF 19- AND 20-GAUGE ARROW EPIDURAL CATHETERS.

Source: *Anesthesia & Analgesia*. 2003; 97: 1524-6.

Authors: Tsui B, Finucane B.

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