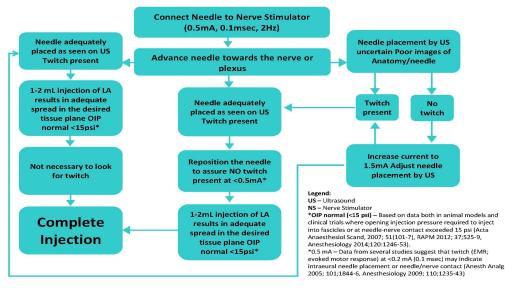
### PAEDIATRIC ANAESTHESTA

## **CURRENT TRENDS**

- Complications in Paediatric RA (ADARPEF Study in 1996, 2010)
  - Overall RA complication rate in children is low at 0.09-0.12%.
  - o Complications are more frequent in children<6 months
  - o CNB has higher (6X) complications than PNB
- Trends in Paediatric RA
  - o There is a move from CNB to PNB (40%→66% in ADARPEF's study)
  - o Caudals still account for most (80%) of CNB
  - o PNB offers the advantage of providing a target-controlled area of localized anaesthesia / analgesia, reducing the amount of LA used, thus systemic absorption is smaller. It is most useful in cases where CNB is contraindicated Eg.
    - Truncal PNB may substitute CNB for laparotomy
- Technique evolution
  - o Timeline
    - 1962- nerve stimulator
    - 1994- ultrasound
    - 2003- ultrasound in paediatric RA
  - Ultrasound vs nerve stimulator
    - Shorter block performance time
    - Higher success rate
    - Longer block duration
    - Less volume of LA
    - Visibility of neuraxial structures esp in infants<3mth old</li>
    - Useful in paralysed patients or those with neuropathy

# **Suggested Standard Monitoring For Nerve Blocks**

Ultrasound + Nerve Stimulation + Opening Injection Pressure (OIP)



#### PAEDIATRIC ANAESTHESTA

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