

**Pediatric ALS Skills:**

All the Stuff You're Scared Of,  
Plus What Actually Works

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- + Airway, airway, airway
- + 100% oxygen
- + Recheck the airway
- + Keep 'em warm
- + 20 cc/kg boluses
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## Lies, Damn Lies and Statistics

- ✦ Pediatric emergencies comprise less than 10% of EMS runs.
- ✦ 60% of Paramedics and 87% of EMTs surveyed ran less than 3 pediatric calls a month.
  - ✦ Those surveyed listed infants as the age group with which they were most uncomfortable.
- ✦ Most cited lack of initial education and scarcity of continuing education as the source of their discomfort with children.

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## Lies, Damn Lies and Statistics

- ✦ OPALS: data from 1638 peds transports over six months.
  - ✦ Only 16.7% classified as severe or life-threatening.
  - ✦ 94.5% were discharged home directly from the ED.
- ✦ Boston EMS: data from 355 pediatric transports over 12 months.
  - ✦ 37% were respiratory distress.
  - ✦ 24% were non-respiratory medical complaints.
  - ✦ Most common ALS intervention was IV access (33%).
  - ✦ BVM ventilation done in only 5% of cases.
  - ✦ 3.7 peds IV attempts per paramedic in one year.
  - ✦ 0.3 ETI attempts per medic in one year.
  - ✦ 0.06 IO attempts per medic in one year.

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## Lies, Damn Lies and Statistics

- ✦ Gausche pediatric intubation study:
  - ✦ ETI provided no measurable improvement in neurological outcome over BVM.
- ✦ Vascular access:
  - ✦ On scene attempts at vascular access increased scene times by an average of 13 minutes, yet...
  - ✦ Having a prehospital IV does not significantly reduce the door-drug time in most ERs, and as a matter of fact...
  - ✦ Most prehospital IVs are never used in the ER.
  - ✦ Omaha Children's Hospital:
    - ✦ 53% first stick success rate at IV cannulation.
    - ✦ 67% success rate with two attempts.
  - ✦ IO access: first stick success rates range from 76-87%.

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## Central Venous Catheters



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## Shiley Tracheostomy Tubes



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