



APPROACH TO RSI	
1) Preparation	<ul style="list-style-type: none"> Identify patient factors that may impact medication choice such as cardiovascular status, raised ICP, bronchospasm, congenital heart defects, or syndromic child Identify risk factors for difficult airway management including airway trauma, obstruction, and anatomical abnormalities due to genetic syndromes Assemble and check equipment including monitors, IV, large-bore suction, endotracheal tube (ETT) and laryngoscope and discuss contingency plan
2) Preoxygenation	<ul style="list-style-type: none"> Ideally with 100% FiO₂ via nonrebreather mask or face mask Enrich environment with oxygen with a mask nearby patient's head in uncooperative child Apneic oxygenation via nasal cannula while intubating
3) Pre-treatment	<ul style="list-style-type: none"> Atropine (an anticholinergic) to prevent bradycardia is optional and more often used in children <1 year of age Midazolam (a benzodiazepine) or ketamine (a dissociative anesthetic) in an uncooperative child to facilitate preoxygenation
4) Induction	<ul style="list-style-type: none"> Choice of induction agent depends on factors such as hemodynamic stability, septic shock, raised ICP, status asthmaticus, and status epilepticus Etomidate, propofol, and ketamine are commonly used +/- opioids like fentanyl or remifentanyl
5) Paralysis	<ul style="list-style-type: none"> Rocuronium – preferred if sugammadex is available for reversal Succinylcholine – preferred otherwise, if not contraindicated such as in denervating neuromuscular disease, malignant hyperthermia, hyperkalemia, recent burns or multi-trauma
6) Positioning	<ul style="list-style-type: none"> Sniffing position in children >6 years if no c-spine concerns and shoulder roll in infants Consider cricoid pressure in high-risk aspiration scenario is controversial Backward, upward, rightward pressure (BURP) to aid in positioning the view of the glottis Head-up positioning to improve functional residual capacity and preoxygenation in order to prolong time to desaturation
7) Placement	<ul style="list-style-type: none"> Insert endotracheal tube and confirm position with end-tidal carbon dioxide and auscultation
8) Maintenance	<ul style="list-style-type: none"> Set ventilator and provide ongoing sedation with opioids or benzodiazepines for example Confirm depth of ETT with chest x-ray if in emergency department/pediatric ICU

