

WEB TABLE I: USE OF KETAMINE FOR ACUTE ASTHMA IN CHILDREN

| <i>Study</i> | <i>Type of study</i> | <i>No. of cases</i> | <i>Age</i> | <i>Clinical profile</i> | <i>Dose of ketamine</i> | <i>Ventilation</i> | <i>Result</i> |
|---------------------------------|----------------------------|---------------------|--------------------|--|---|--------------------|--|
| Betts, <i>et al</i> [3] | Case report | 1 | 5 yr | Acute severe asthma | 4.8 mg/kg IM f/b* 0.6 mg/kg IV 4 doses every 15 min | no | Improved |
| Petrillo, <i>et al</i> [4] | Observational study | 10 | 8 (5-16) yr | Status asthmaticus unresponsive to standard therapy | bolus of 1 mg/kg, f/b infusion at 0.75 mg/kg/h | no | Improved asthma severity indices |
| Allen, <i>et al</i> [5] | RCT [†] | 33 | 5.7±4.3 | Asthma exacerbation with [‡] PIS >8 after 1 hr of standard therapy | bolus of 0.2 mg/kg, 0.5 f/ b 2 hr infusion at mg/kg/h | no | No improvement in PIS [‡] as compared to standard therapy |
| Denmark, <i>et al</i> [6] | Case report | 2 | 9 yr, 4 yr | Severe acute asthma exacerbation | bolus of 2 mg/kg, f/b infusion at 2-3 mg/kg/h | no | Improvement, ventilation prevented |
| Rock, <i>et al</i> [7] | Case report | 2 | | Respiratory failure due to status asthmaticus | 1.0 to 2.5 mg/kg / h | yes | Improved |
| Nehama, <i>et al</i> [8] | Case report | 1 | 8 m [§] | Respiratory failure due to status asthmaticus | | yes | Improved |
| Youssef-Ahmed, <i>et al</i> [9] | Retrospective chart review | 17 | 6±5.7 y (5 m-17 y) | Severe bronchospasm due to status asthmaticus (11), bronchiolitis (4), bacterial pneumonia (2) | bolus of 2 mg/kg, f/b infusion at 32±10 (20-60) µg/kg/min | yes | improved gas exchange and dynamic compliance |
| Index case | Case report | 1 | 2 m | Refractory wheezing | bolus of 1 mg/kg, f/b infusion at 10-15 µg/kg/min | no | Improved. |

*f/b-followed by, [†]RCT-Randomised control trial, [‡]PIS-pulmonary index score, [§]m-months.