|  |  |
| --- | --- |
| **Study** | **Postoperative Nausea and Vomiting** |
|  | Esmolol | Control | p |
| Celebi N 2014 | 1. Incidence of nausea: 20%2. Incidence of vomiting:13% | 1. 27%2. 13% | 1. NS2. NS |
| Chia YY 2004 | 1. Incidence of nausea POD1: 20%2. Incidence of nausea POD2: 8%3. Incidence of vomiting POD1: 8%4. Incidence of vomiting POD2: 0 | 1. 25%2. 8.4%3. 12.6%4. 0 | 1. 0.5892. 1.03. 1.04. - |
| Collard V 2007 | 1. Incidence of nausea in PACU: 30%2. Percent given ondansetron: 23.3%3. Number of patients requiring ondansetron (0/4/8): 23/6/14. Incidence of vomiting: 05. Incidence of PONV on POD1: 16.0% | Remi Group:1. 67.9%2. 71.4%3. 8/9/114. 15. 17.9 | Remi Group:1. 0.0042. 0.0013. 0.00014. NS5. NS |
| Fentanyl Group:1. 66.7%2. 66.7%3.9/5/134. 05. 22.2% | Fentanyl Group:1. 0.0062. 0.0023. 0.00034. -5. NS |
| Coloma M 2001 | 1. Incidence of nausea: 4%2. Incidence of vomiting 0%3. Requirement for rescue antiemetic: 4% | 1. 35%2. 8%3. 4% | 1. < 0.052. NS3. NS |
| Gökçe 2009 | 1. Incidence of nausea/vomiting: 15% | 1. 20% | 1. NS |
| Hwang WJ 2013 | 1. Incidence of PONV: 21%2. Percent requiring rescue antiemetics: 18% | 1. 21%2. 21% | 1. NS2. NS |
| Kamal 2015 | 1. Number with nausea: 02. Number with vomiting: 0 | 1. 02. 1 | 1. not reported2. not reported |
| Kavak Akelma 2014 | 1. Incidence of nausea: 31.3%2. Incidence of vomiting: 0.6% | 1. 62.5%2. 0% | 1. NS2. NS |
| Lee SJ 2010 | 1. Percent with no nausea at 30 min: 77%2. Percent with mild nausea at 30 min: 17%3. Percent with moderate nausea at 30 min: 7%4. Percent with severe nausea at 30 min: 0%5. Percent with no nausea at 6 hours: 90%6. Percent with mild nausea at 6 hours: 7%7. Percent with moderate nausea at 6 hours: 3%8. Percent with severe nausea at 6 hours: 0%9. Percent with no nausea at 24 hours: 97%10. Percent with mild nausea at 24 hours: 3%11. Percent with moderate nausea at 24 hours: 0%12. Percent with severe nausea at 24 hours: 0%13. Percent requiring antiemetic: 20% | 1. 43%2. 40%3. 13%4. 3%5. 70%6. 20%7. 10%8. 0%9. 93%10. 7%11. 0%12. 0%13. 37% | 1. 0.0252. < 0.053. NS4. NS5. NS6. NS7. NS8. NS9. NS10. NS11. NS12. NS13. NS |
| López-Álvarez S 2012 | 1. Incidence of PONV: 20% | 1. 26% | 1. NS |
| Moon YE 2011 | 1. Incidence of PONV: 11%2. Percent requiring antiemetic: 11% | 1. 15%2. 15% | 1. NS2. NS |
| Ozturk 2008 | 1. Number with no nausea: 82. Number with mild nausea: 113. Number with severe nausea: 34. Number with retching/vomiting: 05. Number with no antiemetic requirement:86. Number with one dose of antiemetics: 97. Number with two doses of antiemetics: 38. Number with 3+ doses of antiemetics: 0 | 1. 02. 133. 184. 15. 06. 107. 98. 1 | 1. <0.0012. not reported3. not reported4. not reported5. 0.0036. not reported7. not reported8. not reported |
| Said-Ahmed 2009 | 1. Incidence of nausea: 26.6%2. Percent requiring antiemetic: 20% | 1. 63.3%2. 63.3% | 1. < 0.012. <0.05 |
| Smith I 1991 | 1. Nausea VAS at 15 minutes: 11 ± 172. Nausea VAS at 30 minutes: 9 ± 153. Nausea VAS at 45 minutes: 9 ± 164. Nausea VAS at 60 minutes: 9 ± 175. Nausea VAS at discharge: 5 ± 176. Percent requiring antiemetics: 6% | 1. 8 ± 192. 9 ± 203. 9 ± 214. 8 ± 205. 10 ± 246. 12% | 1. NS2. NS3. NS4. NS5. NS6. NS |
| White PF 2003 | 1. Percent requiring antiemetic rescue: 47% | 1. 40% | NS |

Supplemental Table 1. Postoperative nausea and vomiting outcomes from studies included in esmolol systematic review and meta-analysis. PONV – postoperative nausea and vomiting; VAS – visual analogue score.