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| **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. NS 2. 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. 0.589 2. 1.0 3. 1.0 4. - |
| 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: 0 5. Incidence of PONV on POD1: 16.0% | Remi Group: 1. 67.9% 2. 71.4% 3. 8/9/11 4. 1 5. 17.9 | Remi Group: 1. 0.004 2. 0.001 3. 0.0001 4. NS 5. NS |
| Fentanyl Group: 1. 66.7% 2. 66.7% 3.9/5/13 4. 0 5. 22.2% | Fentanyl Group: 1. 0.006 2. 0.002 3. 0.0003 4. - 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. < 0.05 2. NS 3. 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. NS 2. NS |
| Kamal 2015 | 1. Number with nausea: 0 2. Number with vomiting: 0 | 1. 0 2. 1 | 1. not reported 2. not reported |
| Kavak Akelma 2014 | 1. Incidence of nausea: 31.3% 2. Incidence of vomiting: 0.6% | 1. 62.5% 2. 0% | 1. NS 2. 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. 0.025 2. < 0.05 3. NS 4. NS 5. NS 6. NS 7. NS 8. NS 9. NS 10. NS 11. NS 12. NS 13. 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. NS 2. NS |
| Ozturk 2008 | 1. Number with no nausea: 8 2. Number with mild nausea: 11 3. Number with severe nausea: 3 4. Number with retching/vomiting: 0 5. Number with no antiemetic requirement:8 6. Number with one dose of antiemetics: 9 7. Number with two doses of antiemetics: 3 8. Number with 3+ doses of antiemetics: 0 | 1. 0 2. 13 3. 18 4. 1 5. 0 6. 10 7. 9 8. 1 | 1. <0.001 2. not reported 3. not reported 4. not reported 5. 0.003 6. not reported 7. not reported 8. not reported |
| Said-Ahmed 2009 | 1. Incidence of nausea: 26.6% 2. Percent requiring antiemetic: 20% | 1. 63.3% 2. 63.3% | 1. < 0.01 2. <0.05 |
| Smith I 1991 | 1. Nausea VAS at 15 minutes: 11 ± 17 2. Nausea VAS at 30 minutes: 9 ± 15 3. Nausea VAS at 45 minutes: 9 ± 16 4. Nausea VAS at 60 minutes: 9 ± 17 5. Nausea VAS at discharge: 5 ± 17 6. Percent requiring antiemetics: 6% | 1. 8 ± 19 2. 9 ± 20 3. 9 ± 21 4. 8 ± 20 5. 10 ± 24 6. 12% | 1. NS 2. NS 3. NS 4. NS 5. NS 6. 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.