

Ramosetron

Ramosetron (INN) is a [serotonin 5HT3 receptor antagonist](#) for the treatment of nausea and vomiting. Ramosetron is also indicated for the treatment of “diarrhea-predominant irritable bowel syndrome in males and women”.

It is only licensed for use in Japan and selected Southeast Asian countries.

1: Ji JY, Kim NS, Seo YH, Jung HS, Chun HR, Park JS, Choi JS, Ahn JM, Kim WJ. Comparing the effects of continuous infusion of esmolol and ramosetron alone and in combination on nausea and vomiting after laparoscopic cholecystectomy: A prospective, randomized, double-blind study. *Medicine (Baltimore)*. 2022 Sep 2;101(35):e30105. doi: 10.1097/MD.00000000000030105. PMID: 36107614.

2: Koo CH, Ji SY, Bae YK, Jeon YT, Han JH, Ryu JH. Antiemetic prophylaxis with ramosetron for postoperative nausea and vomiting in patients undergoing microvascular decompression: a prospective, randomized controlled trial. *J Korean Neurosurg Soc*. 2022 Apr 18. doi: 10.3340/jkns.2021.0288. Epub ahead of print. PMID: 35430789.

3: Chen Y, Chang J. Anti-emetic Drugs for Prophylaxis of Postoperative Nausea and Vomiting After Craniotomy: An Updated Systematic Review and Network Meta- Analysis. *Front Med (Lausanne)*. 2020 Feb 25;7:40. doi: 10.3389/fmed.2020.00040. PMID: 32158760; PMCID: PMC7052291.

4: Lim L, Jang YE, Kim EH, Lee JH, Kim JT, Kim HS. Comparison of the Effects of Sufentanil and Fentanyl in Intravenous Patient-Controlled Analgesia after Pediatric Moyamoya Surgery: A Retrospective Study. *Pediatr Neurosurg*. 2020;55(1):36-41. doi: 10.1159/000504582. Epub 2020 Jan 15. PMID: 31940654.

5: Polderman JA, Farhang-Razi V, Van Dieren S, Kranke P, DeVries JH, Hollmann MW, Preckel B, Hermanides J. Adverse side effects of dexamethasone in surgical patients. *Cochrane Database Syst Rev*. 2018 Nov 23;11(11):CD011940. doi: 10.1002/14651858.CD011940.pub3. PMID: 30480776; PMCID: PMC6426282.

6: Polderman JA, Farhang-Razi V, Van Dieren S, Kranke P, DeVries JH, Hollmann MW, Preckel B, Hermanides J. Adverse side effects of dexamethasone in surgical patients. *Cochrane Database Syst Rev*. 2018 Aug 28;8(8):CD011940. doi: 10.1002/14651858.CD011940.pub2. Update in: *Cochrane Database Syst Rev*. 2018 Nov 23;11:CD011940. PMID: 30152137; PMCID: PMC6513495.

7: Ryu JH, Lee JE, Lim YJ, Hong DM, Park HP, Han JI, Baik HJ, Kim HZ, Min KT, Do SH. A prospective, randomized, double-blind, and multicenter trial of prophylactic effects of ramosetron on postoperative nausea and vomiting (PONV) after craniotomy: comparison with ondansetron. *BMC Anesthesiol*. 2014 Aug 4;14:63. doi: 10.1186/1471-2253-14-63. PMID: 25104916; PMCID: PMC4124476.

8: Kasimay O, Cakir B, Devseren E, Yegen BC. Exogenous melatonin delays gastric emptying rate in rats: role of CCK2 and 5-HT3 receptors. *J Physiol Pharmacol*. 2005 Dec;56(4):543-53. PMID: 16391413.

9: Yano S, Makino K, Nakamura H, Kai Y, Morioka M, Hamada J, Kochi M, Kuratsu J. Comparative clinical study of the anti-emetic effects of oral ramosetron and injected granisetron in patients with malignant glioma undergoing ACNU chemotherapy. *Neurol Med Chir (Tokyo)*. 2005 Jun;45(6):294-8; discussion 298-9. doi: 10.2176/nmc.45.294. PMID: 15973062.

10: Yamano M, Kamato T, Nagakura Y, Miyata K. Effects of gastroprokinetic agents on gastroparesis in streptozotocin-induced diabetic rats. *Naunyn Schmiedebergs Arch Pharmacol.* 1997 Jul;356(1):145-50. doi: 10.1007/pl00005022. PMID: 9228202.

11: Yoshioka M, Goda Y, Ikeda T, Togashi H, Ushiki T, Saito H. Involvement of 5-HT₃ receptors in the initiation of pharyngeal reflex. *Am J Physiol.* 1994 May;266(5 Pt 2):R1652-8. doi: 10.1152/ajpregu.1994.266.5.R1652. PMID: 8203646.

12: Kamato T, Ito H, Nagakura Y, Nishida A, Yuki H, Yamano M, Miyata K. Mechanisms of cisplatin- and m-chlorophenylbiguanide-induced emesis in ferrets. *Eur J Pharmacol.* 1993 Jul 20;238(2-3):369-76. doi: 10.1016/0014-2999(93)90868-i. PMID: 8405104.

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