

Initial Date: 8/24/2012
Revised Date: 02/25/2026

Section 1-3

Nausea & Vomiting

1. Follow **General Pre-hospital Care-Treatment Protocol**.
2. Consider underlying causes of nausea and vomiting (i.e., stroke, trauma, cardiac, etc.) and further evaluate according to appropriate protocol.
3. Pediatric patients (≤ 14 years of age) utilize MI MEDIC for appropriate fluid bolus. Ondansetron does not appear on MI MEDIC; use dosing listed in protocol.
4. Isopropyl alcohol – Consider allowing patient to inhale vapor from isopropyl alcohol wipe 3 times every 15 minutes as tolerated.
-  5. For patients ≥ 30 kg (adult and pediatric) that are not actively vomiting, administer **ondansetron** (i.e., Zofran) 4mg ODT (availability and licensure level per MCA selection) one time.
 - a. Contraindications: Patients with Phenylketonuria (PKU)

ODT **ondansetron** included?

☐ YES ☐ NO

Per MCA Selection

☐ EMT

☐ Specialist

-  6. For signs of dehydration, administer **NS** or **LR** IV/IO fluid bolus (refer to **Vascular Access and IV Fluid Therapy-Procedure Protocol**).
 - a. Adults: up to 1 liter.
 -  b. Pediatrics: up to 20 ml/kg
-  7. Hypotensive patients should receive additional IV/IO fluid boluses, as indicated by hemodynamic state.
 - a. Adults: repeat IV/IO fluid bolus to a maximum of 2 liters.
 -  b. Pediatrics: repeat dose of 20 ml/kg to a maximum of 40 ml/kg
-  8. Administer **ondansetron** IV/IM if ODT has not already administered or if patient vomited post ODT administration. (Per MCA selection, may be a Specialist skill).

Ondansetron IV/IM

☐ Specialist

-  a. Adults 4mg IV/IM

Michigan
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- b. Pediatrics administer 0.1 mg/kg IV/IM, maximum dose of 4 mg
-  9. May repeat **ondansetron** once (may be Specialist skill if selected above) after 15 minutes if nausea/vomiting persists. Second dose must be IV/IM.
- a. Adults: 4mg IV/IM
-  b. Pediatrics: 0.1 mg/kg IV/IM, maximum dose of 4 mg
- c. Total maximum dose **ondansetron** (all/any route) for pediatrics or adults is 8 mg
-  10. Consider **diphenhydramine** when previous medications have been ineffective or are contraindicated.
- a. Adult: 12.5-25 mg IV/IM. Maximum dose 25 mg.
-  b. Pediatric (>2 years of age AND > 12 kg): 1.0 mg/kg IV. Maximum dose 25 mg. NOTE – diphenhydramine for nausea and vomiting does not appear on MI MEDIC.

Medication Protocols

Diphenhydramine, Ondansetron