

County of Santa Cruz

HEALTH SERVICES AGENCY

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EMERGENCY MEDICAL SERVICES PROGRAM

Protocol No. M4-P April 1, 2012

Emergency Medical Services Program

Approved

Medical Director

Subject: MANAGEMENT OF NAUSEA AND VOMITING

I. BLS Treatment Protocol:

- A. Treat life threats. (See Policy 4000).
- B. Pay particular attention to maintaining a patent airway, and protecting the patient from aspiration.
- C. Consider underlying causes for nausea/vomiting, and treat as appropriate.
- D. Attempt non-invasive methods of reducing nausea/vomiting, including reducing environmental stimulation, providing fresh air, applying oxygen, reducing unpleasant odors, and using distracting techniques.
- E. Prepare for transport/transfer of care.

II. ALS Treatment Protocol:

- A. Treat life threats. (See Policy 4000).
- B. Pay particular attention to maintaining a patent airway, and protecting the patient from aspiration.
- C. Consider underlying causes for nausea/vomiting, and treat as appropriate. ¹
- D. Ondansetron 0.1 mg/kg IV/IO/IM to a total of 4 mg, two years of age or more, or Orally Disintegrating Tablet (ODT) as follows:
 - 2-3 years of age -2 mg ODT
 - 4 years and up -4 mg ODT
- E. For patients > 40 kg, may repeat to a total of 8 mg IV/IO/IM/ODT.
- F. Transport.
- G. Contact Base Station as needed.

Notes:

• Ondansetron is safe for pregnancy

- Ondansetron rarely causes sedation, and is typically well tolerated by all ages of patients.
- Remember that nausea/vomiting is a symptom. Be aware of underlying causes.
- Zofran is contraindicated in patients with diagnosed Long QT Syndrome, and for those who are currently taking Amiodarone, Haldol, Methadone, Procainamide, or Seroquel.

¹ Common causes of nausea vomiting include administration of narcotics, car sickness, head injury, toxic ingestion, abdominal pain of varying etiologies, gastroenteritis, acute myocardial infarction, stroke. Consider co-administration of ondansetron with morphine sulfate, particularly in those patients with a history of nausea/vomiting with previous administrations.

Zofran (Ondansetron)

Class: Antiemetic (serotonin 5-HT3 receptor antagonist)

Action: Reduces vagus nerve activity, diminishing activation of the vomiting center in the medulla. Blocks

serotonin receptors in the chemoreceptor trigger zone.

Indication: Nausea/Vomiting

How Supplied: 2 mg/ml in 2 ml vial, or as 4 mg Orally Disintegrating Tablet (ODT)

Dosing: Adults: 4 mg IV/IO/IM or 4 mg ODT to a total dose of 16 mg.

Pediatrics: 0.1 mg/kg IV/IO/IM to a total of 4 mg, two years of age or more, or ODT as follows:

2 - 3 years of age - 2 mg ODT
4 years and up - 4 mg ODT

For pediatric patients > 40 kg, may repeat dosing to a total of 8 mg IV/IO/IM/ODT.

Onset: Three to five minutes IV/IO, 5 - 10 minutes ODT/IM.

Duration: Peak duration is 4 hours.

Contra-

Indications: - Patient less than 2 years of age ODT.

- Patients with allergies to ondansetron, or other 5-HT3 antagonists such as Granisetron

- Patients with Long QT Syndrome, and for those taking Amiodarone, Methadone, Procainamide,

Serequel, or Haldol.

Adverse

Reactions: - Tachycardia

- Hypotension

- Syncope (with rapid administration)

Comments - Rarely causes sedation

- Side effects/adverse reactions uncommon

- IV/IO administration should occur slowly, over at least 1 minute

AMIODARONE

•Class-

Antidysrhythmic

•Action-

Prolongs refractory period, Blocks Na+, Ca++ channels

Alpha & Beta (adrenergic) blocker.

•Indication-

Rapid ventricular rate in atrial arrhythmias (refractory PSVT,

atrial tach, atrial fib), VF/ pulseless VT, Stable VT.

•Dose/ Route-

-Stable VT: 150mg over 10 min MR q 10 min followed by

1mg/min infusion.

-VF / Pulseless VT: 300mg rapid IVP MR 150mg in 3-5 min.

Peds Dose-

-SVT / Stable VT: 5mg/kg over 20min.

-VF / Pulseless VT: 5mg/kg IV / IO.

•Contra-

Hypersensitivity to the drug

2nd & 3rd degree heart blocks

Bradycardia

•Adverse-Effects CV= bradycardia, hypotension, negative inotropy

RESP= pulmonary toxicity (pneumonitis, aveolitis)

SKIN= photosensitivity

•Precautions-

-Monitor EKG & VS

-Slow or stop infusion if significant hypotension or bradycardia

occurs

-Ca channel blockers & beta blockers may potentiate sinus

bradycardia, sinus arrest or AV block.

Supplied-

50 mg/ml