

DIARRHOEA and VOMITING

SESLHDPR/386

Aim:

- Early identification and treatment of life threatening causes of diarrhoea and vomiting, escalation of care for patients at risk.
- Early initiation of treatment / clinical care and symptom management within benchmark time.

Assessment Criteria: On assessment the patient should have a history of diarrhoea and vomiting plus one or more of the following signs / symptoms:

- | | | |
|--|--|---|
| <input type="checkbox"/> Nausea | <input type="checkbox"/> Fever | <input type="checkbox"/> Abdominal cramps |
| <input type="checkbox"/> Dry mucus membranes | <input type="checkbox"/> Decreased oral intake | <input type="checkbox"/> General body aches |

Escalation Criteria: Immediate life-threatening presentations that require escalation and referral to a Senior Medical Officer (SMO):

- | | | |
|---|---|--|
| <input type="checkbox"/> Acute confusion / agitation | <input type="checkbox"/> Hypovolemic shock | <input type="checkbox"/> Blood in Stool - Malaena |
| <input type="checkbox"/> Severe abdominal pain / tenderness | <input type="checkbox"/> Pallor / mottling (cap refill > 2 sec) | <input type="checkbox"/> Haematemesis |
| <input type="checkbox"/> BGL < 3mmol/L or > 20mmol/L | <input type="checkbox"/> Severe dehydration | <input type="checkbox"/> Hypotension and tachycardia |

Primary Survey:

- | | |
|---|---|
| • Airway: patency | • Breathing: resp rate, accessory muscle use, air entry, SpO ₂ . |
| • Circulation: perfusion, BP, heart rate, temperature | • Disability: GCS, pupils, limb strength |

Notify CNUM and SMO if any of following red flags is identified from Primary Survey and Between the Flags criteria (1).

- | | | |
|---|--|---|
| <input type="checkbox"/> Airway - at risk
• <i>Partial / full obstruction</i> | <input type="checkbox"/> Breathing - Respiratory distress
• <i>RR < 5 or > 30 /min</i>
• <i>SpO₂ < 90%</i> | <input type="checkbox"/> Circulation - Shock / altered perfusion
• <i>HR < 40bpm or > 140bpm</i>
• <i>BP < 90mmHg or > 200 mmHg</i>
• <i>Postural drop > 20mmHg</i>
• <i>Capillary return > 2 sec</i> |
| <input type="checkbox"/> Disability - Decreased LOC
• <i>GCS ≤ 14 or any fall in GCS by 2 points</i> | <input type="checkbox"/> Exposure
• <i>Temperature < 35.5°C or > 38.5°C</i>
• <i>BGL < 3mmol/L or > 20mmol/L</i> | |

History:

- Presenting complaint
- Allergies
- Medications: Drugs or toxins, Anticoagulant Therapy, Anti-hypertensives, Diabetic meds, Analgesics, Inhalers, Chemotherapy, Non-prescription meds, any recent change to meds.
- Past medical past surgical history relevant – GORD, Crohn's disease, Diverticulitis, Irritable Bowel Syndrome, Diabetes
- Last ate / drank and last menstrual period (LMP) - When and what did they last eat, Thirst or unable to tolerate fluids
- Events and environment leading to presentation - Contact with others with same symptoms, amount of diarrhoea and vomiting?
- Pain Assessment / Score: **PQRST** (Palliating/ provoking factors, Quality, Region/radiation, Severity, Time onset)
- Associated signs / symptoms: fever, dizziness or light headedness, headache, abdominal cramping, concentrated dark urine, anuria, weight loss or anorexia
- History: family, trauma, travel or foods: (food poisoning, gastroenteritis, infectious colitis)

Systems Assessment:

Focused abdominal / mucosal assessment:

- *Inspection:* signs of dehydration – dry mucous membranes, skin mottling, poor skin turgor and any surgical scars
- *Auscultation:* Bowel sounds - hyperactive, reduced or absent.
- *Palpation:* light and deep palpation of the abdomen - Identify location of pain (quadrants), any signs of peritonism i.e. guarding or rigidity, rebound tenderness.

Notify CNUM and Senior Medical Officer (SMO) if any of following red flags is identified from History or Systems Assessment.

- | | | |
|---|---|---|
| <input type="checkbox"/> Hyperactive or absent bowel sounds | <input type="checkbox"/> Severe abdominal pain / tenderness | <input type="checkbox"/> Pallor / mottling (cap refill > 2 sec) |
| <input type="checkbox"/> Blood in stool - Malaena | <input type="checkbox"/> Acute confusion / agitation | <input type="checkbox"/> Weak thready pulse |
| <input type="checkbox"/> Dizziness / lightheadedness | <input type="checkbox"/> Decreased urine output - oliguria | <input type="checkbox"/> History of recent surgery |
| <input type="checkbox"/> Elderly > 65 years | <input type="checkbox"/> Immunosuppressed | <input type="checkbox"/> Diabetes Mellitus |

Investigations / Diagnostics:

Bedside:

- BGL: If < 3mmol/L or > 20mmol/L notify SMO
- ECG: [as indicated] look for Arrhythmia
- Urinalysis / MSU - ketones, glucose, nitrates
- Stool Culture (if suspected infective)

Laboratory / Radiology:

- **Pathology:** Refer to local nurse initiated **STOP** FBC, UEC, Lipase, LFTs (*moderate- severe dehydration*) Urine βHCG and Quantitative βHCG if positive Group and Hold (if bleeding suspected) Blood Cultures (if Temp >38.5 or <35°C)
- **Radiology:** Not generally indicated - refer to SMO

DIARRHOEA and VOMITING

SESLHDPR/386

Nursing Interventions / Management Plan:		
Resuscitation / Stabilisation: <ul style="list-style-type: none"> Oxygen therapy and cardiac monitor [as indicated] IV Cannulation (16-18gauge if unstable) IV Fluids: Sodium Chloride 0.9% 1 L IV stat versus over 8 hours (<i>discuss with SMO</i>) 	Symptomatic Treatment: <ul style="list-style-type: none"> Antiemetic: as per district standing order Analgesia: as per district standing order IV Fluids: as per district standing order 	
Supportive Treatment: <ul style="list-style-type: none"> Nil By Mouth (NBM) or Trial of Fluids Monitor vital signs as clinically indicated (BP, HR, T, RR, SpO₂) Monitor neurological status GCS as clinically indicated Monitor pain assessment / score 	<ul style="list-style-type: none"> Fluid Balance Chart (FBC) Stool Chart Oral care to decrease mucous membrane dryness Trial of fluids for mild dehydration in gastroenteritis, oral rehydration therapy (e.g. Hydralyte®) or 4:1 ratio diluted juice 	
Practice Tips / Hints: <ul style="list-style-type: none"> Diarrhoea and vomiting is most commonly caused by viral gastroenteritis or food poisoning. Monitor for signs and symptoms of dehydration Isolate patient and use personal protective equipment (including surgical mask P2 if norovirus suspected) Keep NBM if patient potentially requires surgical intervention Provide a written discharge advice sheet for "Vomiting and Diarrhoea" from Emergency Care Institute (ECI) ACI Diarrhoea and Vomiting Fact Sheet - https://www.aci.health.nsw.gov.au/networks/eci/clinical/ndec/vomiting-and-diarrhoea-nmg 		
Further Reading / References: <ol style="list-style-type: none"> SESLHDPR/283 Deteriorating Patient - Clinical Emergency Responses System for the Management of Adult and Maternity inpatients Nasr, I.F. (2010) Gastroenteritis cited in Barkin, R.M, Rosen, P., et al. Rosen & Barkin's 5 minute Emergency Medicine Consult 4th ed, Lippincott Williams & Wilkins. Neff, D.M. & Mahnke, D. (2012) Discharge Instructions for Viral Gastroenteritis. CINAHL Nursing Guide, ENSCO Publishing. NHMRC (2010) Australian Guidelines for the Prevention and Control of Infection in Healthcare. https://www.nhmrc.gov.au/guidelines-publications/cd33 Jacques, T., Fisher, M., Hillman, K., Fraser, K., Reece, G. (2011) DETECT. Clinical Excellence Commission. pp.2-12 SESLHS CIN Working Group (2010) Vomiting- Non Specific Adults. 		
Acknowledgements: <i>SESLHD Adult Emergency Nurse Protocols were developed and adapted from:</i> <ul style="list-style-type: none"> Murphy, M (2007) Emergency Department Toolkits Westmead Hospital , SWAHS Hodge, A (2011) Emergency Department, Clinical Pathways. Prince of Wales Hospital SESLHD. 		
Revision and Approval History		
Date	Revision Number	Author and Approval
October 2013	0	Developed by Ray Hunt – Clinical Nurse Educator, The Sutherland Hospital Emergency Department.
March 2014	1	Edited by Leanne Horvat, Clinical Stream Nurse Manager Emergency / Critical Care & Emergency Stream CNC/NE Working Group SESLHD.
August 2014	2	Endorsed by: SESLHD Emergency Clinical Stream Committee on 28 August 2014
September 2014	3	Endorsed by: SESLHD Drug & Quality Use Medicines Committee on 11 September 2014
November 2014	4	Endorsed by : SESLHD District Clinical & Quality Council on 14 November 2014
January 2018	4	Processed by Executive Services prior to progression to SESLHD DQUM
February 2018	4	Endorsed by: SESLHD Drug & Quality Use Medicines Committee
April 2021	5	Revised by Kelly Wright, ED Clinical Nurse Consultant, The Sutherland Hospital
May 2021	5	Approved by Executive Sponsor.
June 2021	5	Endorsed by: SESLHD Quality Use of Medicine Committee