

Nausea and Vomiting in Pregnancy

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Red Flags

- Nausea and vomiting commencing after 12 weeks gestation

Background – About nausea and Vomiting in Pregnancy

- Nausea, dry retching, and vomiting affect up to 70% of pregnant women.
- Hyperemesis gravidarum is persistent and severe vomiting that leads to weight loss of 5% of pre-pregnancy weight. It occurs in less than 1% of pregnancies, and often requires hospitalisation to correct dehydration and electrolyte imbalances.
- Nausea and vomiting may have a significant effect on quality of life.

Assessment

1. Take a **history**, including pregnancy dates.

History

- *Assess if nausea and vomiting is occurring at expected dates in the pregnancy i.e., it usually begins between 4 to 7 weeks, peaks at 9 weeks, and 90% have resolved by 16 to 20 weeks.*
- *Reduced urine output or weight loss*
- *Fluid and food intake*
- *Symptoms of heartburn/gastro-oesophageal reflux disease (GORD)*
- *Treatment that has been tried.*
- *Medical history, medication, allergies.*
- [Smoking status](#)
- [Emotional health and well-being](#)

2. Ask about **symptoms** suggesting **other causes**. Nausea and vomiting commencing after 12 weeks gestation is unlikely to be caused by pregnancy and requires further investigation.

Other causes

- [Diabetes](#)
- [Gallstones](#)
- *Gastroenteritis*
- *Hepatitis*
- *Intercurrent infection, especially urinary tract*
- [Thyroid disease](#)
- *Psychological – eating disorder*
- *Pregnancy related – multiple or molar pregnancy*

Symptoms

Symptoms suggesting another cause:

- *Initial presentation after 12 weeks gestation*
- *Abdominal pain*
- *Fever*
- *Headache*
- *Neurological symptoms*

- *Urinary tract symptoms*
3. Assess degree of symptoms as mild, moderate, or severe. Consider using the modified Pregnancy-Unique Quantification of Emesis (PUQE) [survey](#).
 4. Perform **examination**.

Examination

- Assess for **degree of dehydration**

Degree of dehydration

- *Mucous membranes*
- *Peripheral circulation*
- *Postural hypotension – a fall in blood pressure between lying and standing of ≥ 20 mmHg systolic or ≥ 10 mmHg diastolic*
- *Skin turgour*
- *Tachycardia*

- Weight (compare to baseline), temperature, blood pressure
- General examination related to other possible causes of symptoms, e.g. peritonism, neck stiffness

5. Arrange investigations only if severe symptoms or possible other causes:

- Dipstick **urinalysis for ketones**.

Urinalysis for ketones

- *If ketones are negative, the patient is likely to have had some intake of calories and is therefore more likely to have mild nausea and vomiting.*
- *Consider other causes of increased urinary ketones, if relevant, e.g. diabetic ketoacidosis, some metabolic disorders.*

- MSU – [UTIs in pregnancy](#) are often asymptomatic.
- Urea, electrolytes, and creatinine (UEC), consider magnesium, calcium.
- LFT – Most commonly mild to moderate increase in transaminase levels. If $> 4x$ normal, investigate other causes.
- TSH if hyperemesis gravidarum, milder symptoms refractory to treatment, or signs and symptoms of [thyrotoxicosis](#).
- [Transvaginal ultrasound](#) to exclude molar or multiple pregnancy.

Management

1. Refer for emergency assessment and IV rehydration if:
 - severe or persistent nausea and vomiting refractory to treatment.
 - significant electrolyte abnormalities.
 - dehydrated and/or ketotic.
 - unable to tolerate fluids orally.
 - significant electrolyte abnormalities.
 - concurrent significant co-morbidity (e.g. Type 1 Diabetes).

Refer via:

- local [Emergency Department](#) if < 20 weeks.
- [immediate obstetric assessment](#) if ≥ 20 weeks.

2. If non-pregnancy **cause** of nausea and vomiting, manage as per diagnosis
3. Provide emotional and psychological support as appropriate.
4. Consider **non-pharmacological options** and start pregnancy-specific multivitamins¹:

Non-pharmacological options

- *Rest when possible (fatigue can worsen nausea).*
- *Drink small amounts of fluid frequently.*
- *Eat small frequent meals.*
- *Eat crackers or plain biscuits before getting out of bed in the morning.*
- *Avoid smells or foods that trigger symptoms.*
- *Consume ginger in doses equivalent to 1 to 2 g of powdered ginger daily, e.g. ginger tea, capsules.*
- *Consider wrist acupressure. Some women find this helpful, however, evidence is limited.*
- *In the absence of iron-deficiency anaemia, change to a multivitamin without iron.*
- *Pyridoxine (vitamin B6) 10 to 25 mg orally 3 to 4 times daily, can be given up to 200 mg daily:*
 - *May be helpful for some patients.*
 - *Evidence surrounding efficacy is conflicting.*

5. If no response to non-pharmacological options, consider **pharmacological options**.

Pharmacological options

- *The choice of antiemetic should be based on the pattern of symptoms and previous response to treatment.*
- *Consider combination therapy with sedating and non-sedating agent.*
- *Any potential increase in the risk of congenital abnormalities should be discussed in comparison to the background risk of abnormalities (approx. 3%)²*
- *If unable to tolerate oral agents, use parenteral or rectal modes of delivery:*
 - *Doxylamine:*
 - *12.5 mg to 25 mg orally at night. Increase as tolerated to 12.5 mg morning and midday and 25 mg at night.*
 - *May be very sedating.*
 - *Prochlorperazine:*
 - *5 to 10 mg orally three to four times a day, or*
 - *25 mg oral/rectal once per day, or*
 - *12.5 mg intramuscular injection once per day.*
 - *Promethazine:*
 - *10 to 25 mg orally, or*
 - *12.5 mg to 25 mg intramuscular injection up to three times a day.*
 - *Good at night due to sedative effect.*
 - *Metoclopramide:*
 - *10 mg orally, or*
 - *10 mg intramuscular injection three times a day (max 30 mg per day).*
 - *Not for regular use for > 5 days, to reduce adverse neurological effects.*
 - *Ondansetron:*
 - *4 to 8 mg orally two to three times a day – wafer or tablet.*

- Advise about constipation.
 - Conflicting data but does not appear to increase overall risk of birth defects.²
 - Inform patient they will need to pay full cost of medication as it is not on PBS for vomiting or hyperemesis in pregnancy.
- In severe cases, steroid medication (hydrocortisone or prednisolone) may be prescribed in hospital but should not be initiated without obstetric advice. Possibly associated with an increase in oral clefts.
6. If heartburn/gastro-oesophageal reflux disease (GORD), advise lifestyle and dietary modifications, and consider using **medications**.

Medications

Medications for heartburn/gastro-oesophageal reflux disease (GORD):

- If patients with persistent symptoms, begin pharmacologic therapy with alginates or antacids:
 - Alginates, e.g. Gaviscon, are particularly useful if heartburn symptoms are predominant.
 - Occasional use of antacids is safe.
 - If symptoms are more severe or persistent, consider:
 - ranitidine 150 mg twice daily, or
 - if no response, consider omeprazole 10 to 20 mg daily.
7. If **risk factors** present, consider [dietitian referral](#).

Risk factors

Consider dietitian referral when:

- Unintentional weight loss $\geq 5\%$ or BMI ≤ 18.5 kg/m²
 - Prolonged vomiting and nausea > 2 weeks.
 - Unable to take prescribed vitamin therapy.
 - Oral intake < 50% of normal and/or avoidance of major food groups.
 - Multiple pregnancy.
 - Previous moderate or severe hyperemesis that required nutrition support.
 - Severe or persistent hyperemesis and/or no weight gain by second trimester.
8. If severe or persistent vomiting, prescribe 50 mg thiamine orally daily to prevent Wernicke's encephalopathy.
9. If no response to oral antiemetics after 2 to 3 days, consider referring:
- to the local [emergency department](#) for rehydration and possible admission if < 20 weeks.
 - for [immediate obstetric assessment](#) if ≥ 20 weeks.

Referral

- Refer for emergency assessment and IV rehydration if:
 - severe or persistent nausea and vomiting refractory to treatment.
 - significant electrolyte abnormalities.
 - dehydrated and/or ketotic.

- unable to tolerate fluids orally.
- significant electrolyte abnormalities.
- concurrent significant co-morbidity (e.g. Type 1 Diabetes).

Refer via:

- local [Emergency Department](#) if < 20 weeks.
 - [immediate obstetric assessment](#) if ≥ 20 weeks.
- If **risk factors** present, consider [dietitian referral](#).

Information

For health professionals

Further information

- Australian Prescriber – [Treatment of Nausea and Vomiting in Pregnancy](#)
- Monash Health – [Pregnancy Induced Vomiting and Hyperemesis Gravidarum: Clinical Guideline](#)
- Royal College of Obstetricians and Gynaecologists – [The Management of Nausea and Vomiting of Pregnancy and Hyperemesis Gravidarum](#)
- SOMANZ – [Guideline for the Management of Nausea and Vomiting in Pregnancy and Hyperemesis Gravidarum 2019](#)
- The Royal Women's Hospital – [Coping With Nausea and Vomiting in Pregnancy](#)

For patients

- Mothersafe – [Nausea and Vomiting of Pregnancy](#)
- The Royal Women's Hospital – [Coping with Nausea and Vomiting in Pregnancy](#)

References

1. RANZCOG - Women's Health Committee. [Vitamin and Mineral Supplementation in Pregnancy](#). Australia: RANZCOG; 2008. [updated 2019 Nov 01; cited 2020 Jan 13]. 14 p.
2. Lowe S.A., Bowyer L., Beech A., Robinson H., Armstrong G., Marnoch C., Grzeskowiak L. [Guideline for the management of nausea and vomiting in pregnancy and hyperemesis gravidarum](#). Sydney: SOMANZ; 2019.

Select bibliography

eTG Complete. Melbourne: Therapeutic Guidelines; [Nausea and vomiting in pregnancy \(subscription required\)](#). 2018. [updated 2016 Mar 01].

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