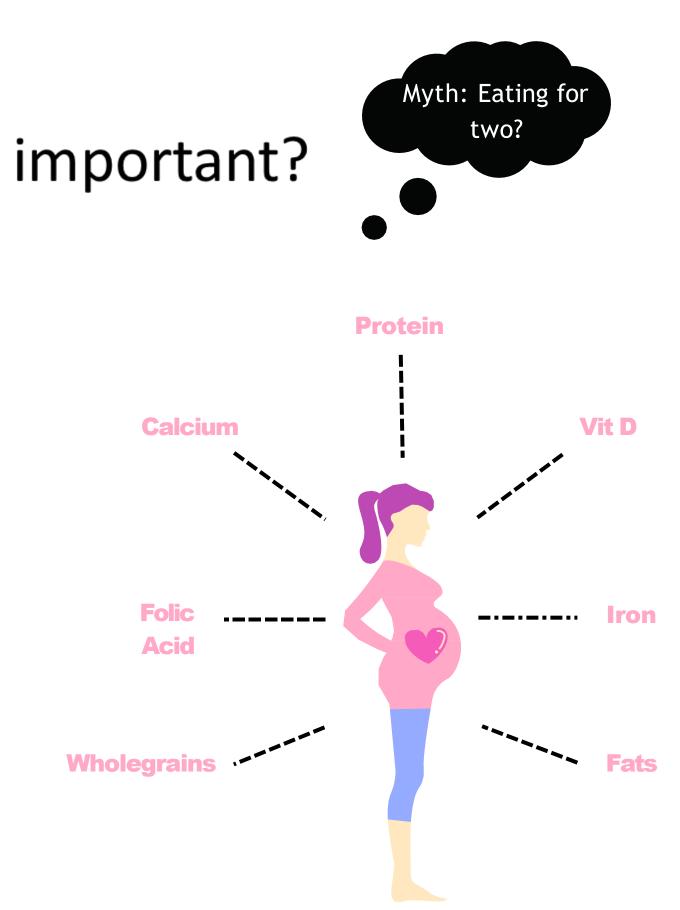


Welcome to the Nutrition in Pregnancy Class

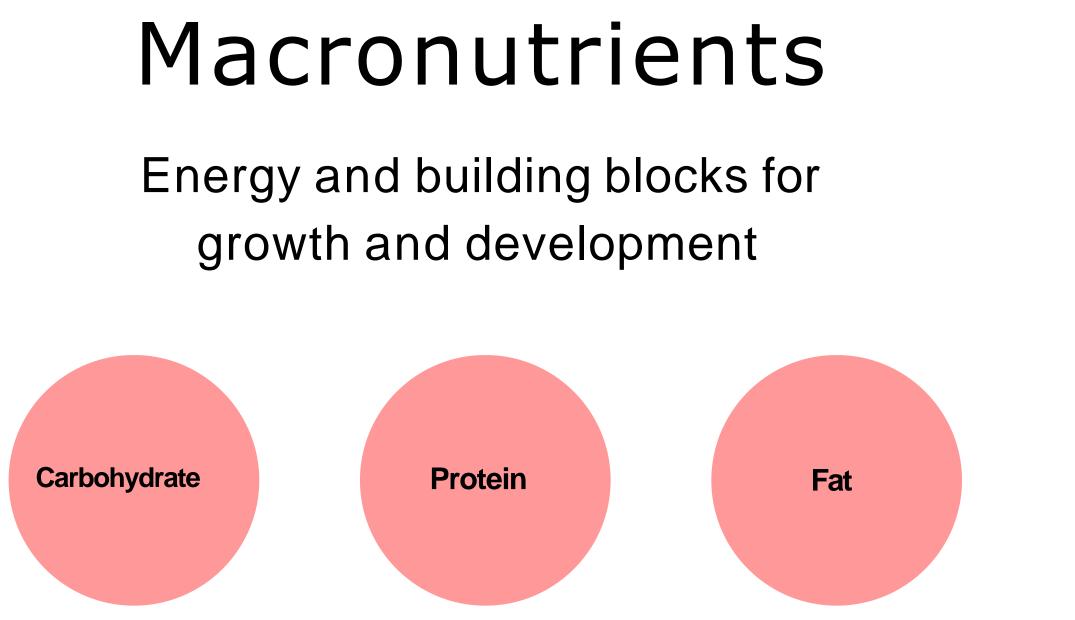


Why is nutrition in pregnancy important?

- Good nutrition = building blocks for healthy pregnancy
- Nutrient requirements increase during pregnancy
- Energy (calorie) needs only slightly increased
- Choose quality foods packed full of vitamins, minerals and other nutrients









Carbohydrate

Main source of energy for mum and baby

Choose unprocessed choices (wholegrains and no-added sugar) for fibre, vitamins and minerals

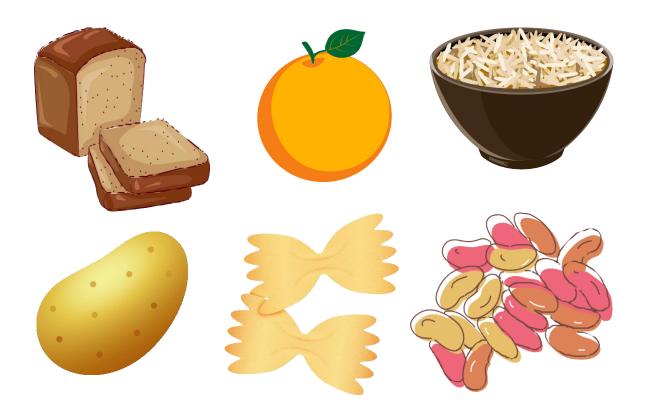
Aim to eat some of these foods at each meal

Sources

Starch	Natural sugar	Free sugar	
Bread, crackers Cereal	Fruit Milk	Sugar Honey, syrup	
Potato, yam	Yoghurt	Soft drinks	
Rice Pasta		Smoothies Fruit juice	



Choose:





Protein

Important for growth and repair of muscle (especially 2nd half of pregnancy)

Requirements increase after 20 weeks

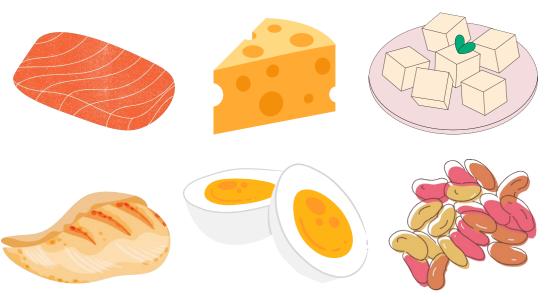
0-20 weeks: 2 servings per day **20+ weeks**: 3 servings per day Twin pregnancies: 4 servings per day (from 20 weeks)

One portion

- 50-75g cooked lean beef, lamb, pork, poultry, mince \bullet (size of palm of hand)
- 100g cooked fish, soya of tofu ● 3/4 cup lentils or beans
- 2 eggs



Choose:



Minimise:



Protein

Protein powder, bars or pancakes are **not recommended** during pregnancy





Fat

Important energy source

Important for baby's growth and development

Choose:



Minimise:



Fat

PUFAs (Poly-Unsaturated Fatty Acids) e.g. Omega-3

Oily fish 2x week

- Salmon
- Sardines
- Mackerel
- Kippers
- Trout (Rainbow)
- Fresh tuna
- Herring
- Pilchards

Plant sources

Rapeseed & canola oil Walnuts Flaxseeds Soya products Fortified foods e.g. spreads/milk/eggs

Choose fish that is fresh or tinned in brine, water or tomato sauce (except tinned tuna).

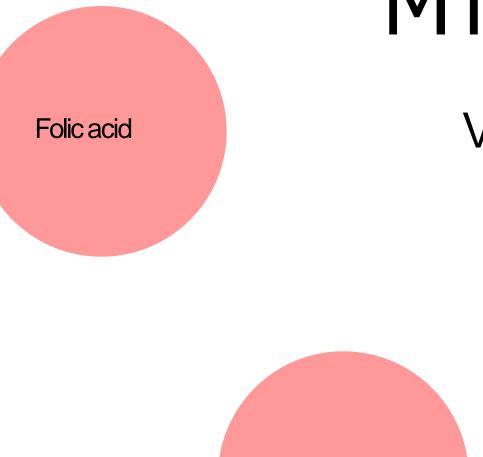
Excess unwanted fat is found in fish tinned in oil and either crumbed/battered/deep fried.

Omega-3 Supplements



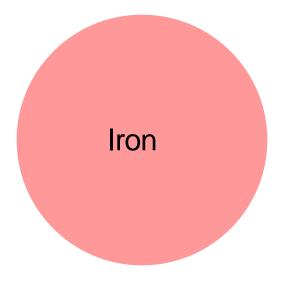
- avoid cod liver oil
- check ingredients





Micronutrients

Vitamins and Minerals



Vitamin D

Calcium





Folic Acid

- Important before and throughout pregnancy.
- Development of the spinal chord
- Blood formation needed during pregnancy and oxygen supply
- 400µg folic acid supplement throughout pregnancy Some women need to take a higher dose supplement
- Folate in food is important throughout pregnancy
- Fruit, vegetables,
- ➤ Grains,
- ➤ Legumes,
- Citrus fruits and juices







Iron

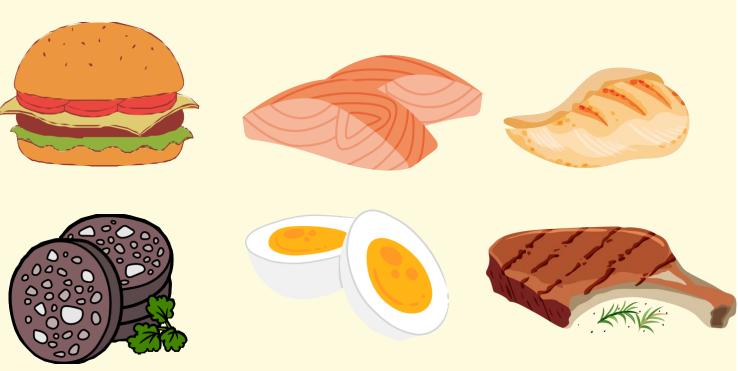
16mg per day

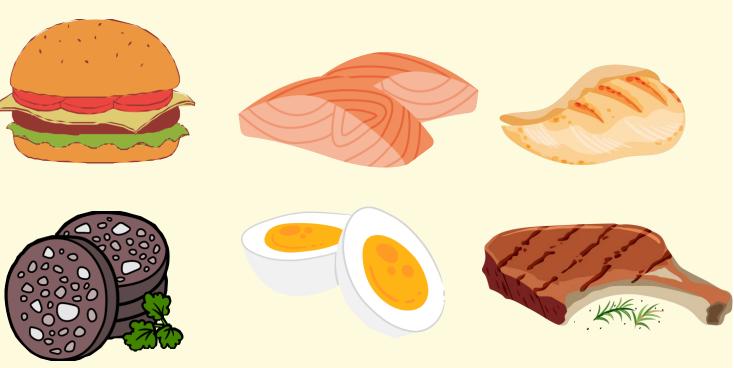
Importance throughout pregnancy

- -Helps prevent anaemia
- -Carry oxygen to the baby
- -Brain development
- –Healthy birth weight

Baby stores from 25 weeks

High dose supplement needed only if contacted by the hospital







animal (haem)

plant-based (non-haem)







Example meals



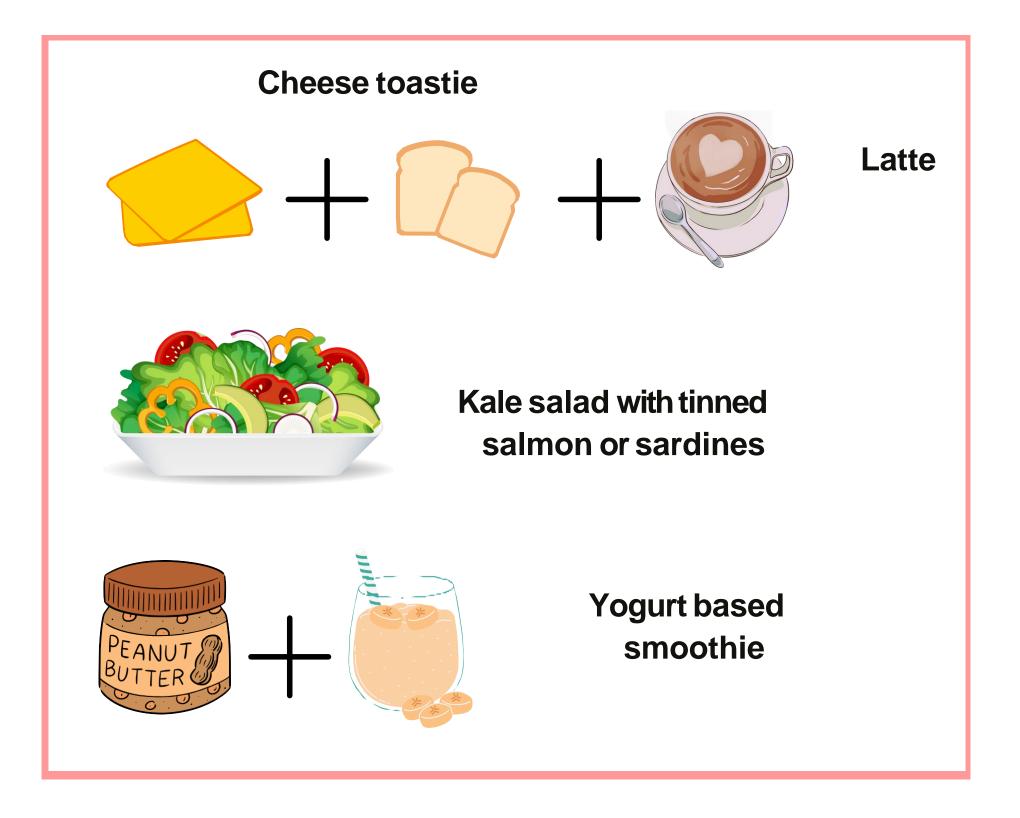
Calcium +Vitamin D

3-5 servings per day

Importance throughout pregnancy -Helps control blood pressure -Make strong, healthy bones -Prevent bone disease later in life -Healthy birth weight

Vitamin D Take 15µg supplement daily Foods: oily fish, fortified dairy, eggs







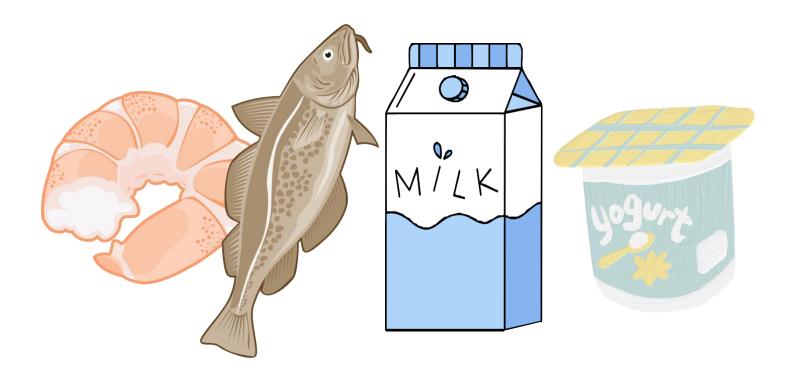
Iodine

Helps brain development

Helps learning

Dietary requirements: 50% greater in pregnancy

Found in white fish and dairy foods (milk, yoghurts, cheese)







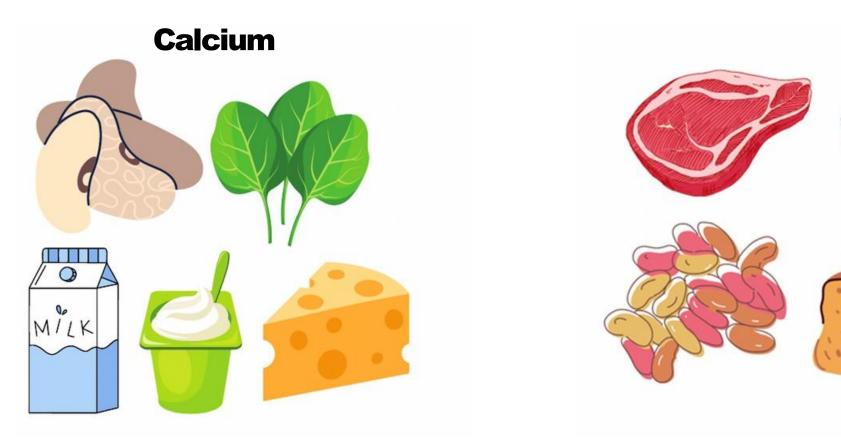


Teen Pregnancy

Extra calories and nutrients are required for mother

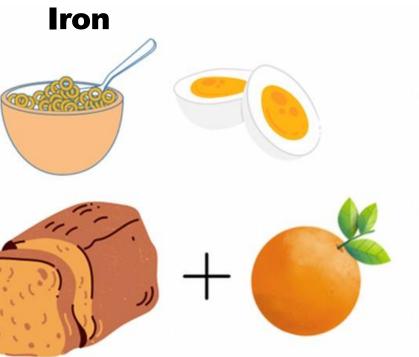
- Growth & development ongoing

Reduce reliance (crisps, convenience foods on chocolate, confectionary) to meet extra requirements





Vitamin D3: 15 µg/day **Folic acid:** 400 µg/day



>1 serving per day

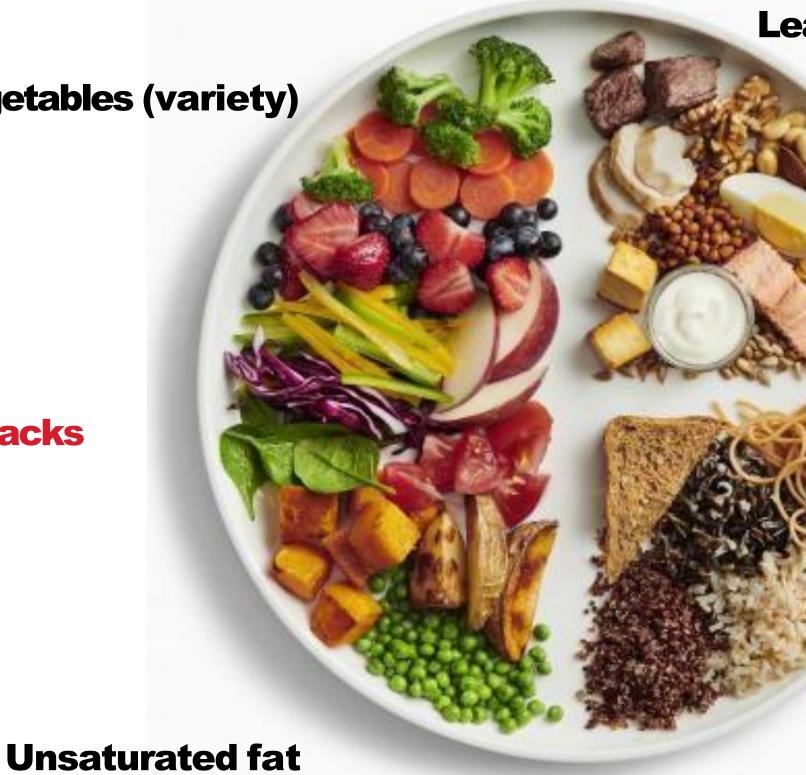


Meal Pattern

Vegetables (variety)

3 main meals

2-3 nourishing snacks



Lean protein

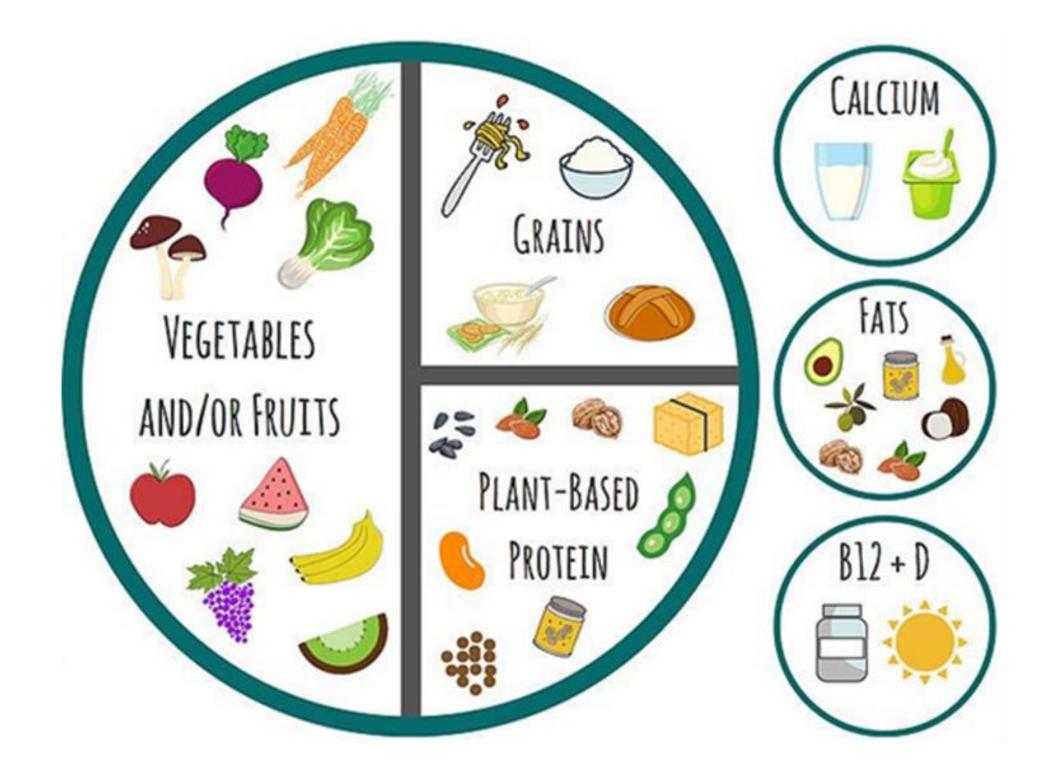


Water for hydration Fruit

Starchy / wholegrain carbohydrate



Vegetarian and Vegan Diets





Balanced Meal Ideas

- Sandwich with wholegrain bread, roasted chicken, cheese and mixed salad
- Soup (chicken or lentil), vegetables, wholegrain roll
- Pasta with tuna and sweetcorn
- Burrito bowl: pork, beans, shredded cheese, rice, salad
- Chicken or tofu stir fry, noodles and vegetables
- Roast chicken, potatoes and carrots
- Homemade burger, wholegrain bun, corn





Healthy Snack Ideas

- Fruit
- Nuts/ Trail mix
- Crackers and
- cheese
- Oat cracker with banana
- Yogurt with fruit and/ or granola
- Brown bread with avocado + tomato
- Apple and nuts or peanut butter Popcorn









Supplements

- Folic acid 400 µg
- Vitamin D 15 µg
- Iron
- Omega
- 3 lodine
- Calcium





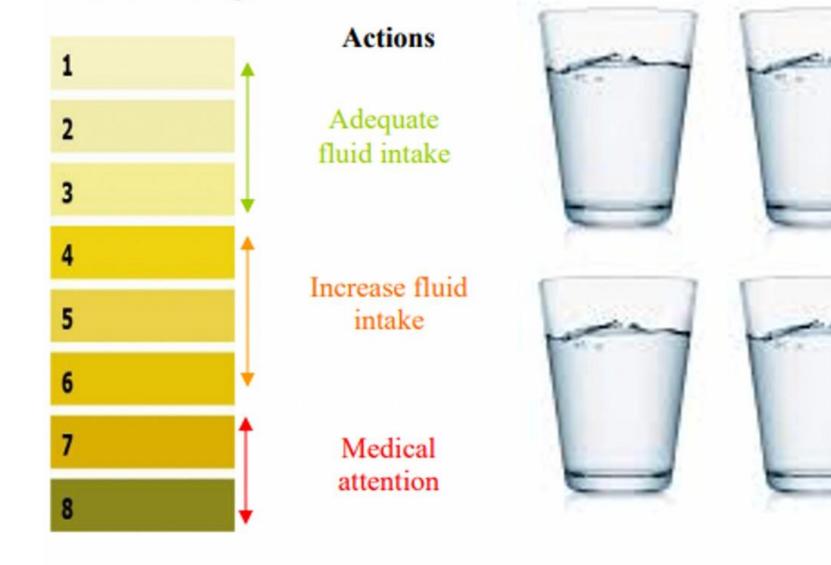
• Pregnancy multivitamins

Safe in pregnancy (check labels)!



Fluids

What colour is your urine?





8 cups

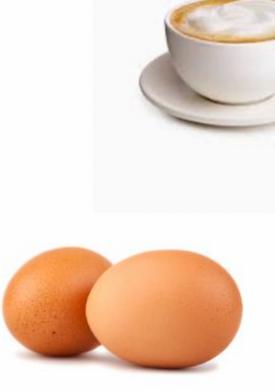


Weight Gain

BMI	Weekly weight gain from 2 nd trimester		Weekly weight gain from 2 nd trimester TWINS	
Underweight <18.5	0.5kg	1 - 1 ½ lb	Insufficient data	Insufficient data
Normal 18.5-24.9	0.4kg	1 lb	0.75kg	1 ¼ - 1 ¾ lb
Overweight 25-29.9	0.3kg	½ - 1lb	0.65kg	1 – 1 ½ lb
Obese >30	0.2kg	½ lb	0.55kg	1 lb

Foods to avoid:

- Raw eggs
- More than 2 cups of coffee or 4 cups of tea per day
- Unpasteurised, soft and mould ripened cheese
- Under-cooked meats including
 smoked salmon and chorizo
- Liver and liver products such as pate and cod liver oil
- Shark, swordfish and marlin, oysters, scallops, clams and mussels
- Limit tuna (1 fresh steak or 2 tins per week)
- Soft whipped ice-cream e.g. 99s.
- All nuts are safe to consume



















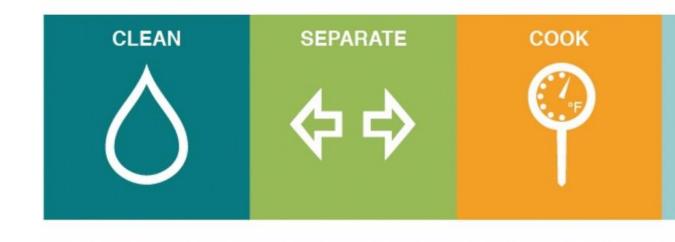






Food Hygeine

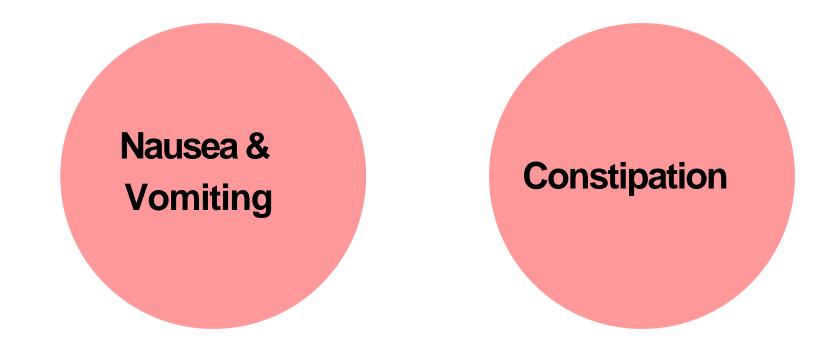
- Wash hands before handling food
- Eat foods before "Use By" dates
- Separate storing of cooked & uncooked meats
- Cook food thoroughly (boil eggs until yolk is hard, meat well-done)
- Use different chopping boards
- Wash fruit & veg well with water
- Keep refrigerator <5 °C and freezer <-18 °C







Pregnancy Symptoms



Heartburn

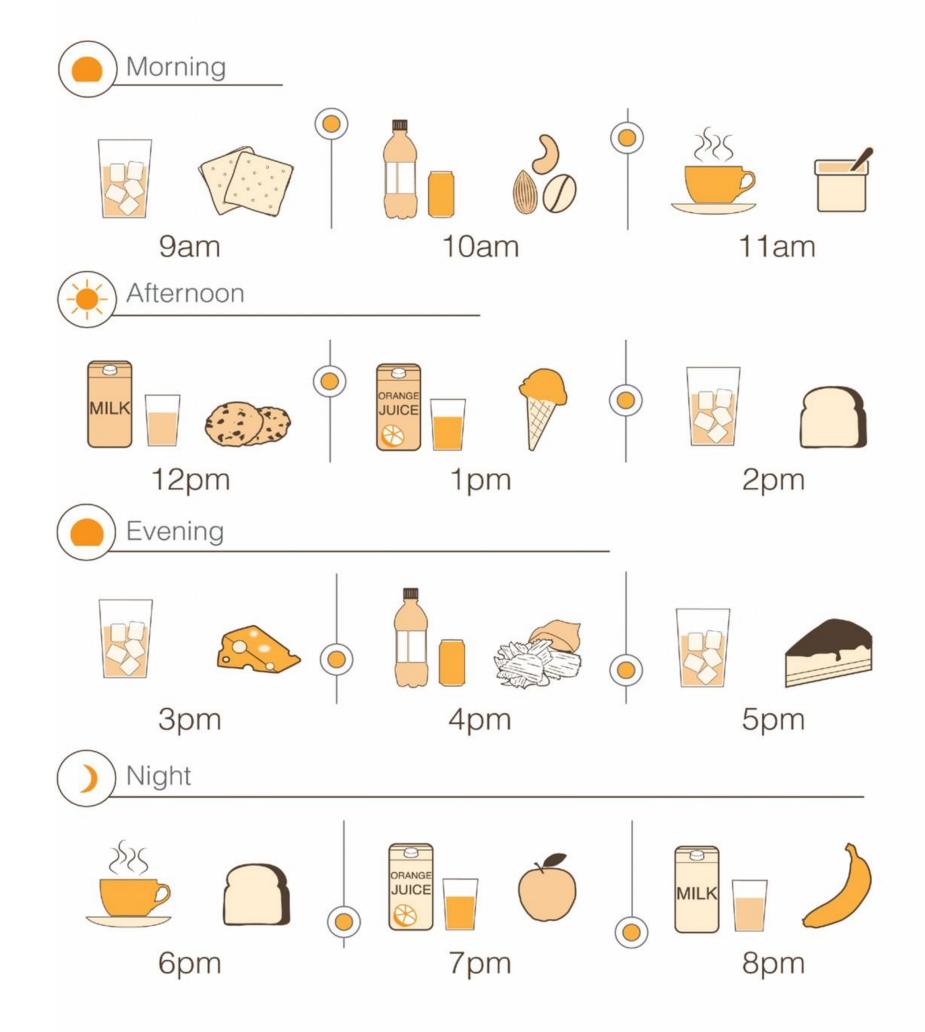


Nausea and Vomiting

- Little & often
- Dry, bland carbohydrates
- Listen to cravings
- Medications
- If you cannot hold any fluids down please attend ER



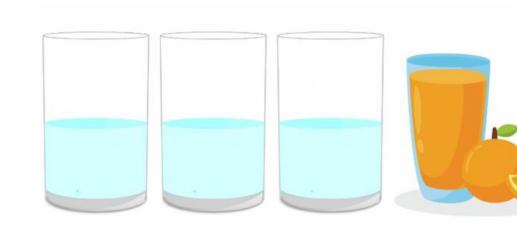






Constipation







Fibre

Fluids

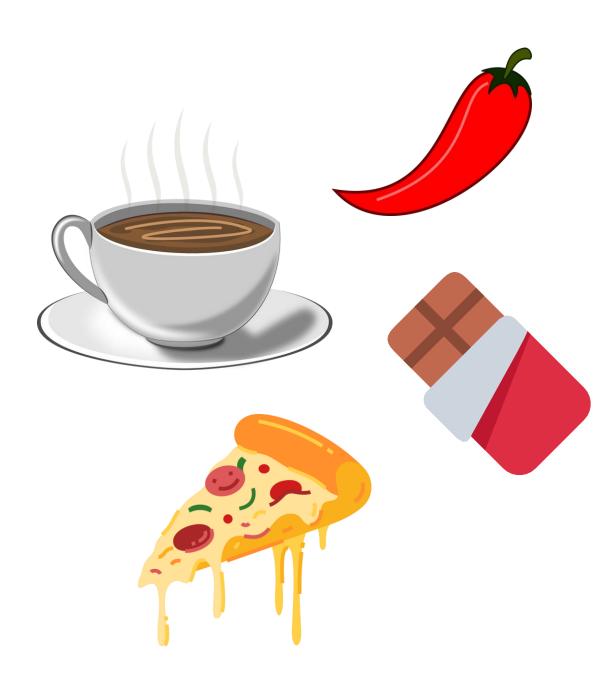






Heartburn

- Medical treatment
- Triggers
- Small frequent meals
- Sleep at an angel
- Loose, comfortable clothing





THE ROTUNDA HOSPITAL DUBLIN



Physical Activity



The Bump Room



Benefits of Breastfeeding

Baby

Reduces the risk of chest infections, middle ear and GI infections (NEC)

Promotes cognitive

development

Protective against obesity and cardiovascular disease Reduced risk

ovarian & post-

menopausal

breast cancer

Liquid gold (optimum nutrition)

Cheaper

Relationship & bonding

Mother Can reduce risk of st- cardiovascular

cardiovascular disease, obesity & type 2 diabetes





Benefits of Breastfeeding

HSE Support

Visit <u>www.mychild.ie</u> for professional information and support

Get a copy of the HSE booklet: ' Breastfeeding-A Good start'

Rotunda Lactation Specialists

Breastfeeding Wrap-Around clinic for anyone who experienced breastfeeding challenges in the past & meet criteria:

- Low supply
- Diabetes
- Elective C-section
- Hypothyroidism

https://rotunda.ie/parent-education/resources/ Phone: 01-8171766 Email: cmtbf@rotunda.ie

• No breast changes, flat or inverted nipples

• Previous difficulty with breastfeeding



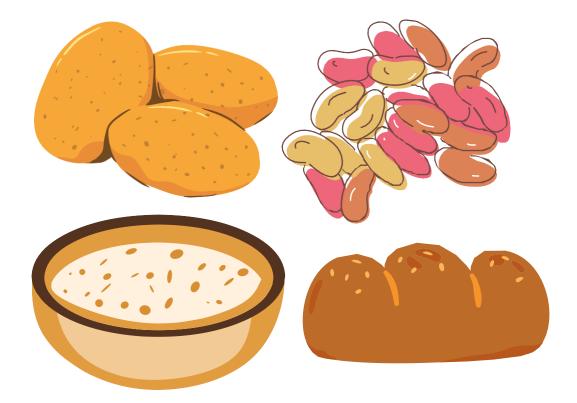
Gestational Diabetes

Who is at higher risk?

- BMI >30kg/m2
- Maternal age > 40yo
- Family hx diabetes
- Previous birth to a large baby
- Certain ethnicities

How can I reduce my risk?

- Healthy eating
- Regular meals
- Wholegrain carbohydrate choices
- Reduced intake 'free sugars'
- Exercise
- Healthy gestational weight gain for BMI







Thank You





Contact us: Dietetics department: (01) 817 2551