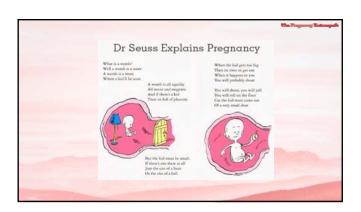


### Trimester One (Week 1-12) Listeria Monocytogenes –is the risk real and what to avoid? Miscarriage – aetiology & prevention, threatened miscarriage protocol. Nausea and vomiting in pregnancy –treatment and survival tips. Fatigue –so common. Weight Management – effects of obesity in pregnancy.



### Bacteria L. monocytogenes 80 reported cases per year. Effects pregnant women and newborn babies, elderly & immunocompromised. Symptoms can include; fever, muscle aches, and sometimes nausea and diarrhoea. Septicaemia (blood poisoning) and meningitis (inflammation of the outside of the brain), and consequent death. Pregnant women; mild symptoms, however infections during the pregnancy can lead to miscarriage, stillbirth or infection to the newborn baby. Symptoms usually start between 3 to 70 days (average 21 days) after eating food contaminated with the bacteria. Treatment is IV antibiotics. Spread via contaminated food not via person to person.

_		The Property Subsequils
	Prevention	
	Avoidance of Higher Risk Foods	
	Chilled seafood such as raw oysters, sashimi and sushi, smoked ready-to- eat seafood and cooked ready-to-eat prawns.	
	Cold deli meats, cold cooked ready-to-eat chicken, raw eggs.	
	<ul> <li>Rockmelon, pre-prepared or pre-packaged fruit or vegetable salads, including those from buffets and salad bars.</li> </ul>	
	<ul> <li>Soft, semi-soft and surface-ripened cheeses such as brie, camembert, ricotta, blue and feta. Refrigerated pâté or meat spreads.</li> </ul>	
	Soft serve ice cream, unpasteurised dairy products.	Bertie
	Raw mushrooms.	
	(4)	

### Prevention cont... Food Handling • Wash fruit and vegetables and cutting equipment thoroughly. • Keep raw and cooked foods separate and use separate cutting boards/knives for ray and cooked food. • Always cover food to prevent contamination. • Cook all foods thoroughly and/or reheat all the way through. • Refrigerate leftovers as soon as cold enough to touch. • Throw out food if left at room temperature for > 4hours. • Avoid ready to eat /packaged food.

## Miscarriage The chances can range from 10-25%. <35 yrs. old -15% chance in healthy women.</p> 35-45 yrs. old -20-35%. >45 yrs. old -50% chance. Previous miscarriage -25%. (2) 20% low progesterone. 60-70% Chromosomal, unviable embryo, molar pregnancy, blighted ovum.

The Pop	Successive Supering
Warning Signs	
Mild to severe back pain (often worse than normal menstrual cramps).	
Weight loss.	
True contractions (very painful happening every 5-20 minutes).	
Brown or bright red bleeding with or without cramps (20-30% of all pregnancies can experience some bleeding in early pregnancy, with about 50% of those resulting in normal pregnancies).	
Tissue with clot like material passing from the vagina.	
A sudden decrease in signs of pregnancy.	
(3)	

Wa Paganay Salan
Miscarriage
<u>AETIOLOGY</u>
Structural – abnormal Uterus, fibroids, cervical incompetence, placenta growth /implantation.
2. Drug Exposure – caffeine (>3-4 cups), alcohol, tobacco, illicit drugs.
3. Infections – STI's (Chlamydia, Urea plasma, Mycoplasma, Gonorrhoeae), GBS, Staph.
Immunological – Any auto, thyroid or sperm antibodies. Antiphospholipid antibody (anticoagulant & anti cardiolipin AB can occur in women with SLE or other immunologic conditions =placental thrombosis, risk for T2 & T3 pregnancy loss.
Thrombophilia's -> 20wks. Factor V Leiden, Protein C def, Protein S def., Activated Prothrombin C Resistance (APCR), Anti thrombin III def., Gene mutation G20210A. MTHFR mutations –homozygous, father included. (4)

### Caffeine — The Ugly Truth A study of 1,063 pregnant women found that >200mg of caffeine per day (2-3 cups of coffee or 5 cans of caffeinated soft drink) had twice the miscarriage risk compared to no caffeine consumption. (6) < 200mg caffeine per day was still associated with >40% risk of miscarriage. (3) How Much Caffeine? Drip-percolated = 100-150mg caffeine per 150mL Instant coffee = 600-100mg per 150mL Espresso = 90-120mg per150mL Cola 375mL = 40mg, Energy drink 250mL = 80-100mg 30g chocolate approx. 20-60mg.



# Miscarriage Prevention 1. Progesterone Synthesis: >45 nmol/l =ideal and associated with a viable pregnancy. Luteal Phase Info, Previous blood tests, PMS symptoms. Teasel Root Dipsacus asper 1:2: 2-4 mL/day. (60% alcohol) Progestogenic activity due to phytosterol derivatives. Traditional use in recurrent miscarriage, uterine bleeding. (6) Chaste tree Vitex agnus-castus: 500mg -2g per day (1.5g) 1:2 1-4 mL/day. Support progesterone (P2) via corpus luteum. Contraindicated if taking Crinone/synthetic P2. Peonry Paeonia lactiflora 1:2: 4-8 mL/ day. Support P2 via corpus luteum. B6: 100-240 mg, P5P 25 mg 2-3 per day. -Support P2 via corpus luteum., (7) Treat until 14 weeks gestation.

### Miscarriage Prevention cont. 2. Improve Blood Flow –support lining of the uterus. • Movement –lymphatic drainage. • Hydration/Electrolytes: mineral water, coconut water, rock salt. • Bioflavonoids: vitamin C, quercetin, flavonoid rich foods (lemons, limes, green pepper, oranges, cherries, grapes). Herbs: Ginkgo biloba (Ginkgo), Centella asiatica (Gotu Kola), Vitis Vinifera (Grape seed). 3. Reduce oxidative stress – pregnancy is associated with an increase in OS. • NAC -600mg up to 20 wks.: when combined with 500mcg folic acid was shown to increase the likelihood of a full term pregnancy in women with recurrent pregnancy loss, compared to Folic acid alone. (8) • Coenzyme Q10: 150mg BD.

		The Programy Schwepulls
Miscarriage P	Prevention cont.	
Support normal Blood Clofamily and/or personal history clotting factors.	otting – of recurrent miscarriage (m/c), abnormal	
Turmeric, Ginkgo, Garlic.		
Refer to Thrombophilia Proto	ocol.	
4. Autoimmune Tendencies family Hx, NKC, Antiphospholi	_ ipid AB's, RA, Psoriasis, SLE etc.	
Echinacea: tablet and liquid	options. Therapeutic dose required.	
Mushrooms: Codonopsis, Re	eishi, Shiitake, Maitake. Liquid & tablet form.	
Adaptogens –regulate stress	s response and reduce inflammation.	
(9)		

### Thrombophilia Protocol Ginkgo Biloba 2:1 3-4 mL per day Fish Oil: 3-6 g per day Ginger 1:2 ext., 1-2 mL per day Garlic enteric coated high potency 2-3 tabs/day Turmeric -3-5g equivalent. C+ Bioflavonoids, 2-3g per day CoQ10, 150 mg morning and lunch. Folic Acid –methylated (in multi) in case of MTHFR Vitamin E 400-50IU x2 per/day.

### **Herbal Use**

- True Unicorn (Aletris farinosa) –regulator –recurrent m/c –fertility enhancer –prevention of m/c.
- False Unicorn (Chamaelirium luteum) –pelvic fullness, congestion, heaviness –acts locally on ovary.
- Squaw Vine (Mitchella repens) –traditional use: 20 drops TDS.
- Black Haw (Viburnum prunifolium) m/c prevention -nervine sedative –uterine tonic –fertility & partus prep
- Shatavari (Asparagus racemosus) –threatened m/c –female repro & general tonic –rejuvenate –Post Partum

Teasel Root (Dipsacus asper) –threatened and recurrent m/c, bleeding. (6)

### **Example Formula**

Hemidesmus

40 mL

• False Unicorn

30 mL

Black Haw

30 mL 50 mL

Shatavari

50 mL 200 mL

5mL TDS until 14 wks.



### Nausea & Vomiting in Pregnancy (NVP)

- Symptoms peak between 6-10 weeks, usually resolve by 13-16 weeks.
- Occurs any time of the day or night, and can fluctuate between slight and severe.
- 70-80% of women experience mild –moderate symptoms.
- 50% experience vomiting.

### Triggers:

Travelling, fried & spicy food, alcohol, strong smells such as coffee, cigarette smoke, perfumes, animal products -meat, fish, dairy & eggs.



	The Programmy Subsequent
Management	
Start early! Rice crackers , oat cakes, seed crackers before you get out of bed.	
Eating small, regular meals to stabilise blood sugar.	
Complex CHO; brown rice, wholemeal or spelt pasta, dark dense breads such as Rye, and quinoa.	
Protein - Trimester 1 growth and sustaining energy.	
Nut butters, nut milks, hummus, feta & goats cheese or yoghurt, good quality protein powders, stews & casseroles.	
Dehydration can make symptoms more severe.	
Lemon in sparkling water, good quality spring and mineral water -electrolytes.  Coconut water. Pink Himalayan Rock salt on food is good when craving salt.	
Avoid Triggers hunger, large meals, fried and spicy foods, travelling, alcohol, strong	

· Try Acupuncture

	Apple Landbrook proportions
Treatment	
<ul> <li>Ginger -most popular, as effective as B6 (11) Liquid Extract -hot or cold, tablets -Bio clinic, fresh, lozenge recipe -courtesy of herbal extract. Fresh grated ginger in cooking, steeped in boiling water as a tea, real ginger ale, crystallised ginger and ginger syrup.</li> </ul>	
<ul> <li>Peppermint is also often used for nausea and you can alternate organic spearmint or peppermint tea with ginger tea.</li> </ul>	
• Vitamin B6 –25mg TDS =75mg/day. Up to 14/40 (11)	_
Liver – methylation, hormone metabolism –P2 Detox 1-2 tsp in bottle with Ginger. Tablets –check all ingredients for safety, E.g.: St Mary's Thistle –simple. Glutathione. Turmeric –category A safety	Detro-



	The Programsy Subsequils
Fatigue	
Common in T1. Usually improves by T2.	
Causes	
<ul> <li>Physiological changes, increased energy requirements, nausea &amp; vomiting, sleep disturbances.</li> </ul>	
Management	
Support –family, partner, social. Sleep & rest.	
<ul> <li>Food intake and quality, check status of nutrients –Iron –Act B's (methylation Mg, CoQ10.</li> </ul>	) –
Stress mx – massage, meditation, gentle exercise, counselling, herbs.	
Adaptogens: S. Ginseng, Astragalus, Rhodiola, Schisandra.	
Licorice –Contraindicated in HT, <3mL/d, high grade -<1.5mL/d. K. Ginseng -caution, Rehmannia –caution T1 ami-implantation qualities in animal studies, Withania –not advis in T1 potential emmenagogue/abortifacient effects, Tribulus –C1 Prommonal effects. (9)	ed
Thyroid function –I2. Se. B6 & Zn.	_



# Obesity & Increased Risk Preconception Reduced fertility, affect the health of the human oocyte, quality and development of the embryo early in gestation. (4s) Antenatal Miscarriage, Gestational diabetes, foetal congenital abnormalities e, neural tube defects). antenatal stillbirth, pre-eclampsia, thromboembolism, abnormalities in foetal growth. obstructive sleep apnose, preterm birth -mostly associated with co-morbidities, maternal death. (4s) Risks cont.

Intrapartum

Post-Partum

Postnatal depression.

Induction of labour, prolonged labour and failure to progress.
 Rate of instrumental delivery, failed instrumental delivery, C-section.
 Shoulder dystocia, difficulties with foetal heart rate monitoring, postpartum haemorrhage, peri partum death. (14)

Delayed wound healing and infection, thromboembolic disease.
 Greater likelihood of needing support with breastfeeding.

Long term neonatal consequences: neonatal body composition, infant weight gain, obesity. (14)	-
man noight gain, occord, (17)	
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Wa Pagang Sabagah	
Management	
Management	
Management  - As per non-pregnant. –thyroid function etc.	
Management  As per non-pregnant. –thyroid function etc.  Dietary /Nutritional advice. –wholefood, low GI, manage BSL	
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Management     As per non-pregnant. –thyroid function etc.     Dietary /Nutritional advice. –wholefood, low GI, manage BSL     Counselling     Exercise: benefits –increase placental growth & vascularity, reduce oxidative stress & Inflammation, improves endothelial dysfunction.	

BMI (kg/m2 ) (WHO)	Classification	Singleton pregnancy total weight gain range	Rates of weight gain in 2nd and 3rd Trimester (kg/week)
<18.5	Underweight	12.5-18kg	0.51 (0.44- 0.58)
18.5-24.9	Normal	11.5-16kg	0.42 (0.35- 0.50)
25-29.9	Overweight	6.8-11.3kg	0.28 (0.23-0.33)
≥30	Obese	5-9.1kg	0.22 (0.17-0.27)



### Thank You

- Thankyou for your time in learning how to support women holistically in pregnancy.

  It is super important work that needs to be done to enable women to birth & mother with confidence, and achieve the childbirth experience they desire.
- Please join me on... Linkedin: Carmen Farrugia Facebook: The Pregnancy Naturopath Instagram: @ThePregnancyNaturopath

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