







NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE



E.g. Portugal

lodine guidelines for preconception, pregnancy and lactation



- · Pregnant and lactating women in Portugal do not have optimal iodine levels (mean prevalence of 83 to 99% depending on the region);
- Iodine is essential for the development of the fetus central nervous system;
- Daily supplementation of 150 to 200 μg of iodine is advised.

Direção-Geral da Saúde. Aporte de iodo em mulheres na preconceção, gravidez e amamentação nº 011/2013.















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Similar problems but different solutions (e.g. USA)

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

21 CFR Parts 136, 137, and 139

[Docket No. 91N-100S]

RIN 0910-AA19

Food Standards: Amendment of Standards of Identity For Enriched Grain Products to Require Addition of Folic Acid

AGENCY: Food and Drug Administration,

ACTION: Final rule.

SUMMARY: The Food and Drug Administration (FDA) is amending the standards of identity for several enriched grain products and, by crossreference, the standards of identity for enriched bromated flour, enriched vegetable macaroni, and enriched vegetable noodle products, to require the addition of folic acid. The agency is requiring that these products be fortified with folic acid at levels ranging from 0.43 milligrams (mg) to 1.4 mg per pound (mg/lb) or 95 micrograms (μg) to 309 µg/100 grams (g), of product. These values are based on a fortification level of 140 µg/100 g (0.635 mg/lb) of the cereal grain product. This action is

being taken to help women of childbearing age to reduce their risk of having a pregnancy affected with spina bifida or other neural tube defects (NTD's) and to comply with the recommendation of the U.S. Public Health Service (PHS) that they consume at least 0.4 mg (400 µg) of folic acid daily. This action also responds to a citizen petition submitted by Glenn

EFFECTIVE DATE: January 1, 1998.

Federal Register / Vol. 61, No. 44 / Tuesday, March 5, 1996 / Rules and Regulations





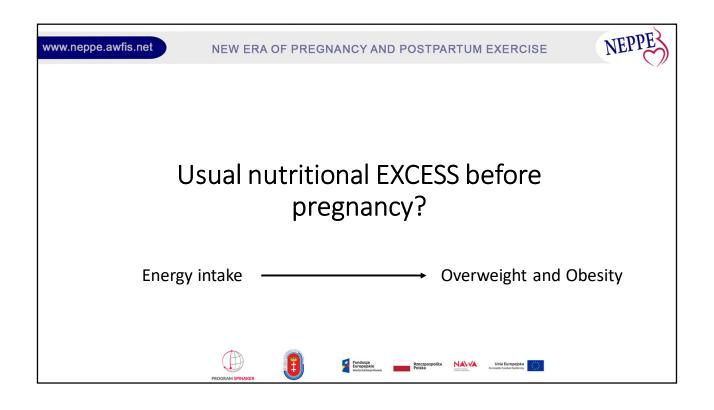


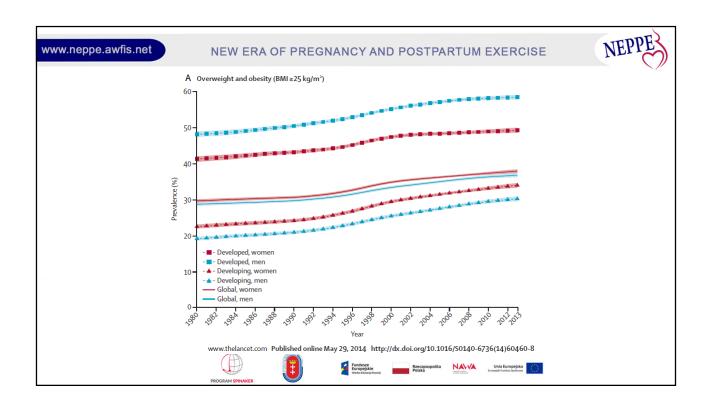


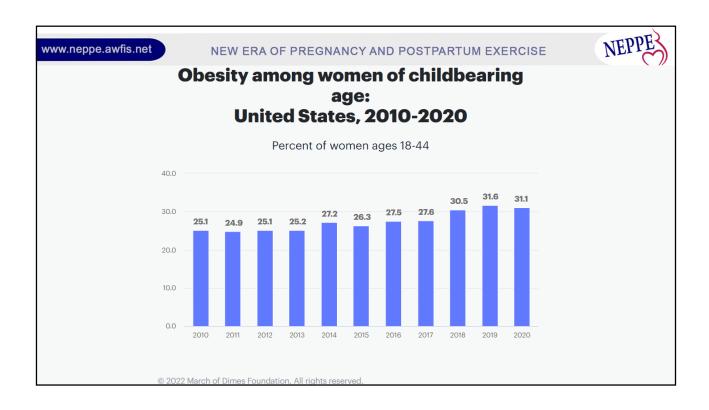




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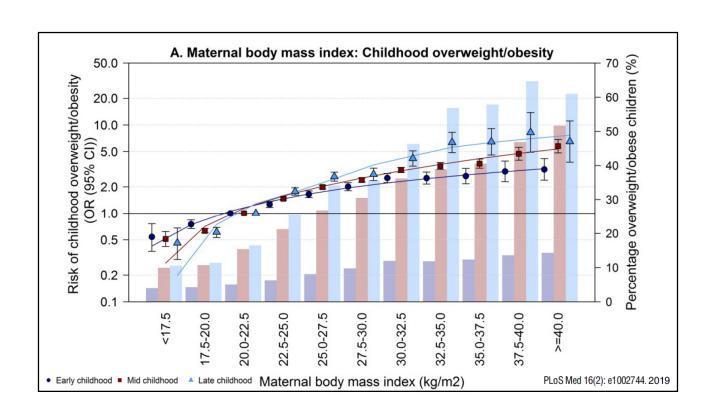








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	ociated with obesity in	n preconception and pregnancy, fo BMI (kg/m2)	r the woman Odds ratios (CI 95%)	
Maternal outcomes		20.05	2.24 (2.24.2.27)	
Gestational diabetes		30–35 >35	3.01 (2.34–3.87) 5.55 (4.27–7.21)	
High blood Successor Co.	d a consideration	30-34.9	2.68 (2.40–3.00)	
High blood pressure and	a preeciampsia	≥ 35	3.43 (2.59–4.55)	
C-section		> 35	2.05 (1.86–2.27)	
C-section		> 40	2.89 (2.28-3.79)	
Preterm birth (< 33 wee	oka)	≥ 34.9	1.49 (0.89–2.50)	
Preterii birti (< 33 wee	eks)	≥ 40	2.02 (1.24–3.29)	
			obesity reviews (2015) 16 , 621–638 Obesity (2013) 21 , 1046-1055. doi:10.1002/oby.2	20088
	PROGRAM SPINAKER	Fundusze Europejskie Wedu 60Adja Rozwij Polska	Unia Europejska Europejski Fundust Spotkcary	



NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE



Maternal body mass index, gestational weight gain, and the risk of overweight and obesity across childhood: An individual participant data meta-analysis

PLoS Med 16(2): e1002744. 2019

Ellis Voerman^{1,2}, Susana Santos^{1,2}, Bernadeta Patro Golab^{1,2,3}, Pilar Amiano^{4,5,6},

We observed not only that maternal pre-pregnancy overweight and obesity were associated with an increased risk of childhood overweight/obesity, but that this risk increased gradually over the full range of maternal BMI. Similarly, the risk of childhood overweight/obesity increased across the full range of gestational weight gain.

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We estimated that 21.7% to 41.7% of childhood overweight/obesity prevalence could be attributed to maternal overweight and obesity together, whereas 11.4% to 19.2% could be attributed to excessive gestational weight gain.

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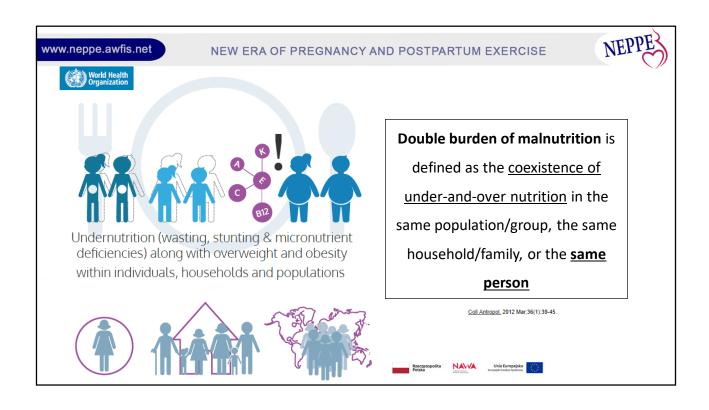
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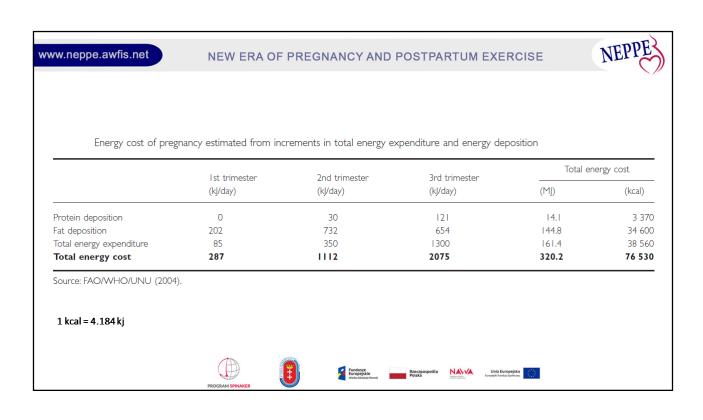
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We estimated that 21.7% to 41.7% of childhood overweight/obesity prevalence could be attributed to maternal overweight and obesity together, whereas 11.4% to 19.2% could be attributed to excessive gestational weight gain.

The additional effect of excessive gestational weight gain on the risk of childhood over-weight/obesity was small among women who are already overweight or obese before pregnancy.







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EER (Estimated Energy Requirement (kcal/day):

- 1st Trimester = EER for the adolescent or adult woman + 0
- 2nd Trimester = EER for the adolescent or adult woman + 160* + 180**
- 3rd Trimester = EER for the adolescent or adult woman + 272* + 180**
- * Increment in total energy expenditure.
- ** Increment in total energy deposition (fat and protein).













NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE

Pregnancy

1º Trimester 2º Trimester 3º Trimester

Energy, kcal/day (+) 70 (+) 260 (+) 500

EFSA (European Food Safety Authority), Dietary Reference Values for nutrients. Summary Report, EFSA supporting publication, Editor. 2017.



www.neppe.awfis.net NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE **Table 1.** Institute of Medicine Weight Gain Recommendations for Pregnancy ← **Recommended Rates** of Weight Gain[†] in the Recommended **Second and Third Prepregnancy Weight** Trimesters (lb) Range of Category **Body Mass Index*** Total Weight (lb) (Mean Range [lb/wk]) 0.5 (0.5-0.6 kg) Underweight Less than 18.5 28-40 (12.7-18.1 kg) 1(1-1.3)*Body mass index is calculated as weight in kilograms divided by height in meters squared or as weight in pounds multiplied by 703 divided by [†]Calculations assume a 1.1–4.4 lb weight gain in the first trimester. Modified from Institute of Medicine (US). Weight gain during pregnancy: reexamining the guidelines. Washington, DC. National Academies Press; 2009. ©2009 National Academy of Sciences.

NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE



Table 1. Institute of Medicine Weight Gain Recommendations for Pregnancy ←

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Underweight Normal Weight	Less than 18.5 18.5–24.9	28–40 (12.7-18.1 kg) 25–35 (11.3-15.9 kg)	. (/	0.5 (0.5-0 0.5 (0.4-0	

^{*}Body mass index is calculated as weight in kilograms divided by height in meters squared or as weight in pounds multiplied by 703 divided by height in inches.

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Normal Weight	18.5–24.9	25–35 (11.3-15.9 kg)	1 (0.8–1) 0.5 (0.4-0).5 kg)
Overweight	25–29.9	15–25 (6.8-11.3 kg)	0.6 (0.5–0.7) 0.3 (0.2-0).3 kg)

^{*}Body mass index is calculated as weight in kilograms divided by height in meters squared or as weight in pounds multiplied by 703 divided by height in inches.

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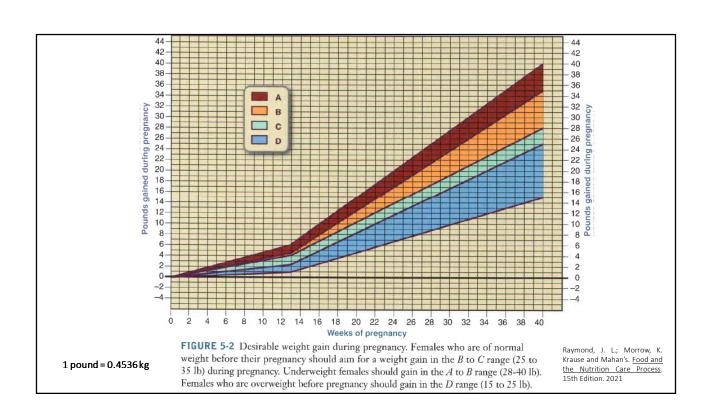


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Overweight	25-29.9	15–25 (6.8-11.3 kg)	0.6 (0.5–0.7) 0.3 (0.2-0.3	kg)
Obese (includes all classes)	30 and greater	11–20 (5.0-9.1 kg)	0.5 (0.4–0.6) 0.2 (0.2-0.3	kg)

^{*}Body mass index is calculated as weight in kilograms divided by height in meters squared or as weight in pounds multiplied by 703 divided by height in inches.

Modified from Institute of Medicine (US). Weight gain during pregnancy: reexamining the guidelines. Washington, DC. National Academies Press; 2009. © 2009 National Academy of Sciences.



[†]Calculations assume a 1.1–4.4 lb weight gain in the first trimester.

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Twin gestational weight pregnancy gain recommendation:

- 16.8 to 24.5 kg for women with normal weight
- 14.1 to 22.7 kg for women with overweight
- 11.3 to 19.1 kg for women with obesity

IOM (Institute of Medicine). 2009. Weight Gain During Pregnancy: Reexamining the Guidelines. Washington, DC: The National Academies Press













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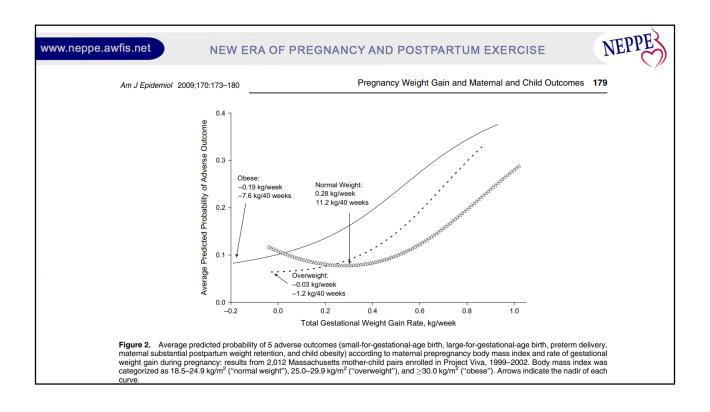


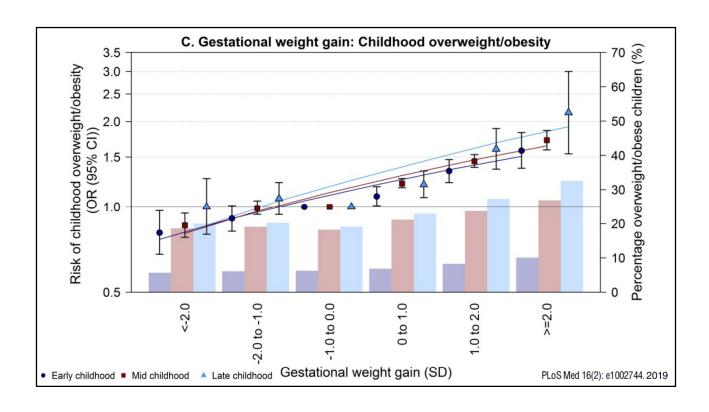
COMMITTEE OPINION

Number 548 • January 2013

Committee on Obstetric Practice

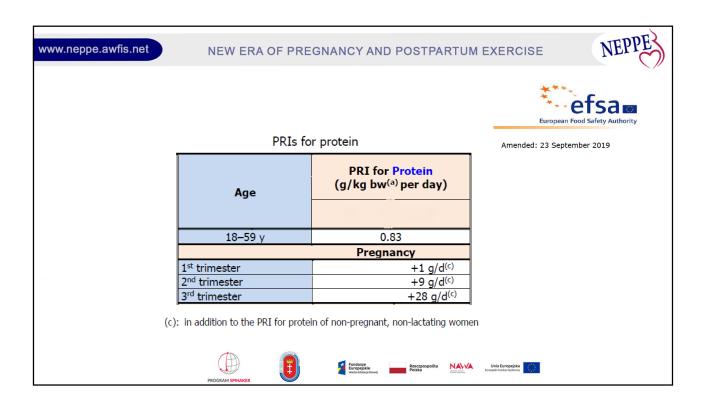
Individualized care and clinical judgment are necessary in the management of the overweight or obese woman who is gaining (or wishes to gain) less weight than recommended but has an appropriately growing fetus. Balancing the risks of fetal growth (in the largefor-gestational-age fetus and the small-for-gestationalage fetus), obstetric complications, and maternal weight retention is essential but will remain challenging until research provides evidence to further refine the recommendations for gestational weight gain, especially among women with high degrees of obesity.













PRIs and AIs for vitamins, females Niacin (mg NE/MJ) (b) a-Tocopherol (mg/d) Folate (µg DFE/d) (a) Vitamin K (µg/d) (9) Vitamin D (µg/d) (e) Vitamin B6 (mg/d) Age group (years) Cobalamin (µg/d) Pantothenic acid (mg/day) Riboflavin (mg/d) Vitamin C (mg/d) Thiamin (mg/MJ) Choline (mg/d) Vitamin A (µg/d) Biotin (µg/d) ≥ 18 11 40 400 330 1.6 1.6 0.1 650 1.6 **95** | 15^(f) 70 Pregnancy 11 40 480 4.5 600 **1.6** 5 1.9 0.1 700 **1.8 105** 15^(f) 70

Amended: 23 September 2019

efsa

d, day; MJ, megajoule;

- (a): DFE: dietary folate equivalents. For combined intakes of food folate and folic acid, DFEs can be computed as follows: μg DFE = μg food folate + (1.7 x μg folic acid)
- (b): NE: niacin equivalent (1 mg niacin = 1 niacin equivalent = 60 mg dietary tryptophan)
- (c): RE: retinol equivalent, 1 μg RE equals 1 μg of retinol, 6 μg of β-carotene and 12 μg of other provitamin A carotenoids
- (e): for conversion between μg and International Units (IU) of vitamin D intake: 1 μg = 40 IU and 0.025 μg = 1 IU
- (f): under conditions of assumed minimal cutaneous vitamin D synthesis. In the presence of endogenous cutaneous vitamin D synthesis, the requirement for dietary vitamin D is lower or may be even zero.
- (g): based on phylloquinone only

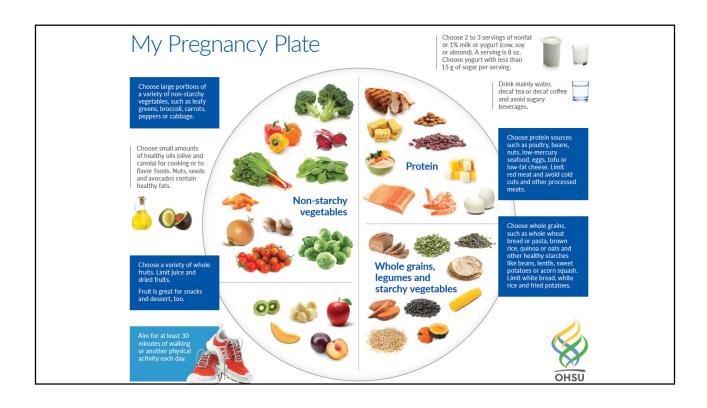
www.neppe.awfis.net NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE efsa PRIs and AIs for minerals, females Amended: 23 September 2019 Zinc (mg/d) Molybdenum (µg/d) Phosphorus (mg/d) Magnesium (mg/d) (p/6rl) Age group (years) Age group (years) Potassium (mg/d) Age group (years) Age group (years) Calcium (mg/d) Fluoride (mg/d) Copper (mg/d) Todine (µg/d) Manganese (mg/ Iron (mg/d) Selenium LPI (mg/d) 18–24 ≥ 25 300 1,000 ≥ 18 2.9 150 3.0 550 3,500 70 300 7.5 ≥ 18 ≥ 18 1.3 **16**(d) 9.3 Premenopausal 950 600 900 Postmenopausal 11.0 1,200 12.7 Pregnancy 1,000 200 3.0 550 +1.6^(e) 16^(d) 300 18-24 d, day; LPI, level of phytate intake; (d): The PRI covers the requirement of approximately 95% of premenopausal women. PRIs are presented **in bold type** and AIs in ordinary type (e): in addition to the PRIs for non-pregnant, non-lactating women

www.neppe.awfis.net NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE Nutrient Adult woman **Pregnancy** Energy (kcal) 2,403 2,743°, 2,855^d Protein (g/kg/d) 8.0 1.1 Carbohydrate (g/d) 130 175 Total fiber (g/d) 25 28 Linoleic acid (g/d) Vitamin A (µg RAE^e) 13 770 12 700 Vitamin D (μ g) 5 5 Vitamin E (mg α -tocopherol) 15 15 Vitamin K (μg) 90 90 75 Vitamin C (mg) 85 Thiamin (mg) 1.1 1.4 Riboflavin (mg) 1.1 1.4 Vitamin B-6 (mg) 1.3 1.9 Niacin (mg NEf) 14 18 Folate (μg dietary folate equivalents) 400 600 Vitamin B-12 (µg) 2.6 2.4 5 6 Pantothenic acid (mg) 30 30 Biotin (μ g) Choline (mg) 425 450 (Institute of Medicine. Dietary Reference Intakes: The Essential Guide to Nutrient Requirements Washington, DC: National Academies Press; 2006).

Nutrient	Adult woman	Pregnancy
Calcium (mg)	1,000	1,000
Phosphorus (mg)	700	700
Magnesium (mg)	320	350
Iron (mg)	8	27
Zinc (mg)	8	11
lodine (µg)	150	220
Selenium (µg)	55	60
Fluoride (mg)	3	3
Manganese (mg)	1.8	2.0
Molybdenum (μ g)	45	50
Chromium (µg)	25	30
Copper (µg)	900	1,000
Sodium (mg)	2,300	2,300
Potassium (mg)	4,700	4,700





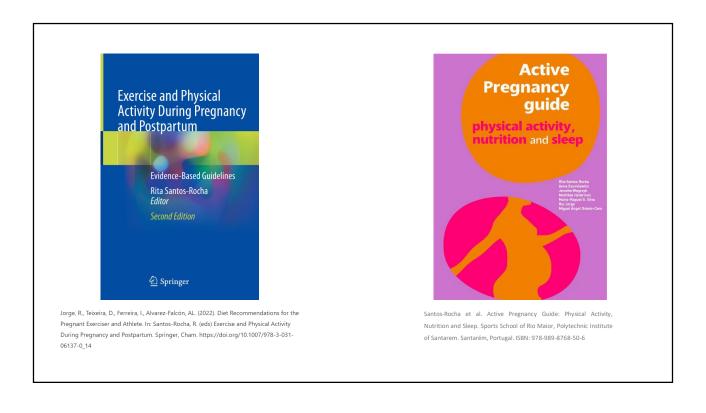






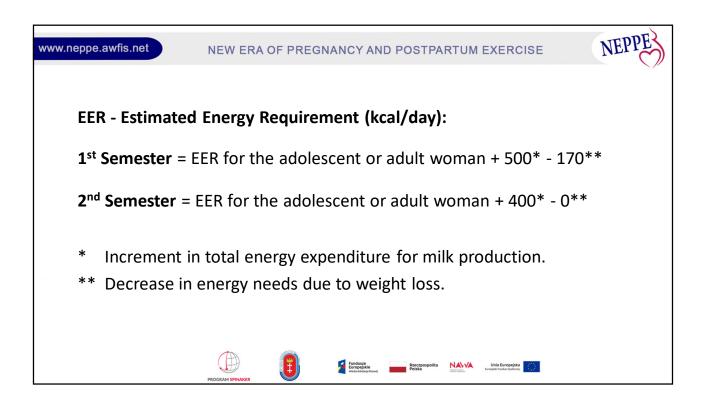


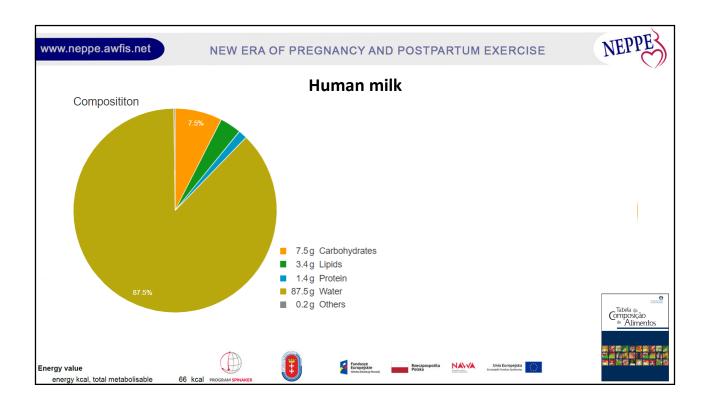
www.neppe.awfis.net NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE Summary of foodborne pathogens that can cause potential harm in pregnancy Foods to avoid Consequences of infection in pregnancy Further comments Listeriosis Can cause miscarriage, stillbirth or severe Pâté and mould-ripened soft cheeses, e.g. Destroyed by heat, so re-heat readyillness in the newborn. Brie, Camembert, blue-veined cheeses; prepared meals thoroughly. Wash fruit unpasteurised milk and milk products. and vegetables well. Salmonella Raw eggs or foods containing raw or partially Cook eggs until white and yolk are solid. In severe cases may cause miscarriage or Cook all meat, particularly poultry, premature labour. cooked eggs, e.g. home-made mayonnaise. thoroughly. Toxoplasmosis In rare cases can lead to severe fetal Raw or undercooked meat; unpasteurised milk Avoid contact with soil or cat liver trays abnormalities. and milk products. by wearing gloves. Campylobacter May cause premature birth, spontaneous Raw or undercooked poultry; unpasteurised Domestic pets and soil can also be a abortion or stillbirth. milk and milk products. source of infection. Nutrition Bulletin, 31, 28-59 Unia Europejska Europejski Funduz Społeczny

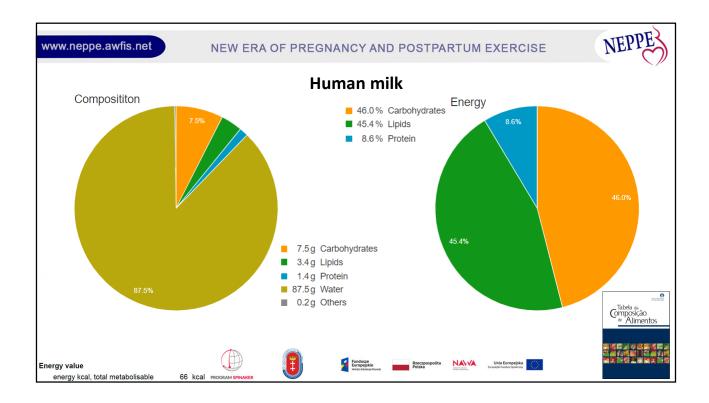


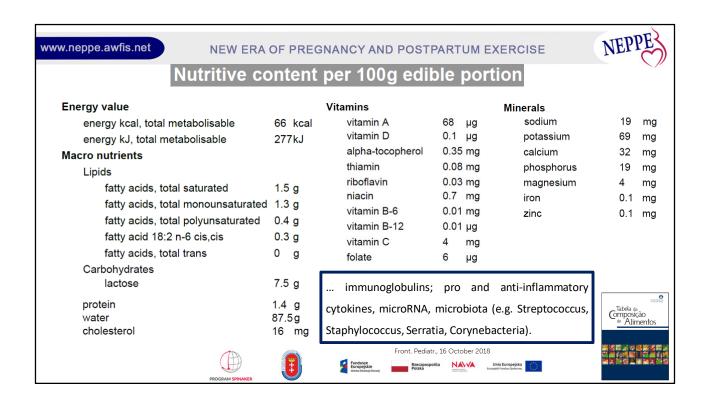




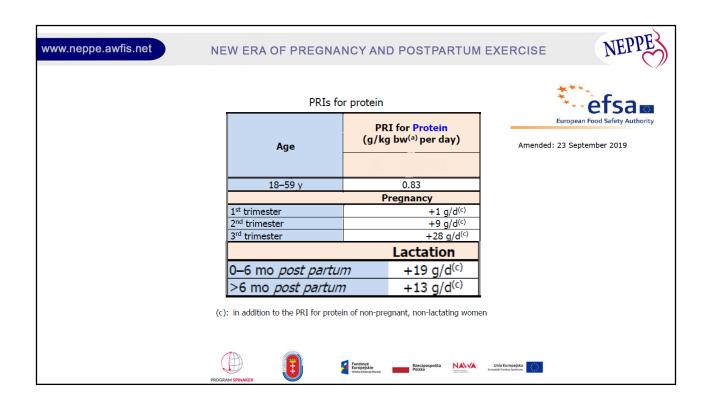












NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE



Amended: 23 September 2019

RIs for total fat and carbohydrates and AIs for fatty acids, dietary fibre and water

Age group (years)	Total carbohydrates (E%) ^(a)	Dietary fibre (g/d) ^(b)	Total fat (E%) ^(a)	SFA	(E%) ^(b)	ALA (E%) ^(b)	EPA+DHA (mg/d) ^(b)	DHA (mg/d) ^(b)	TFA	Age group (years)	Wa (L/d) (b),
≥ 18	45-60	25	20-35	ALAP	4	0.5	250		ALAP	≥ 18	2.5	2.0
					Pregnancy							
			20-35	ALAP	4	0.5	250	+100-200 ^(e)	ALAP			2.3
					Lactation							
			20-35	ALAP	4	0.5	250	+100-200 ^(e)	ALAP			2.7

ALA; a-linolenic acid; ALAP, as low as possible; d, day; DHA, docosahexaenoic acid; E% percentage of energy intake; EPA, eicosapentaenoic acid; F, female; L, liter; LA, linoleic acid; M, male; mo, months, SFA, saturated fatty acids; TFA, trans-fatty acids

- (a): RI, reference intake range
- (b): AI, adequate intake
- (c): includes water from beverages of all kind, including drinking and mineral water, and from food moisture
- (d): i.e. the second half of the first year of life (from the beginning of the 7th month to the 1st birthday)
 (e): in addition to combined intakes of EPA and DHA of 250 mg/day













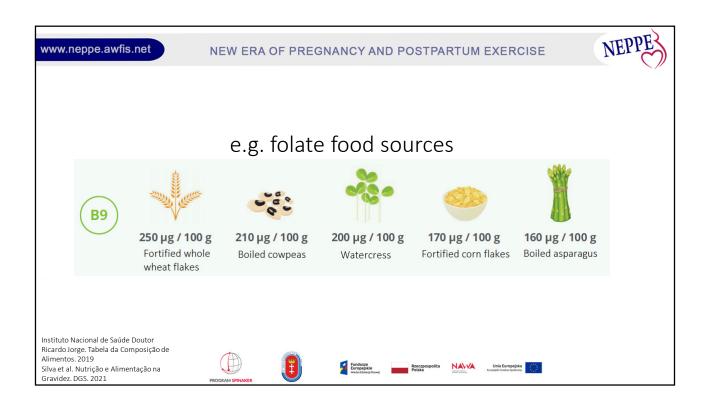


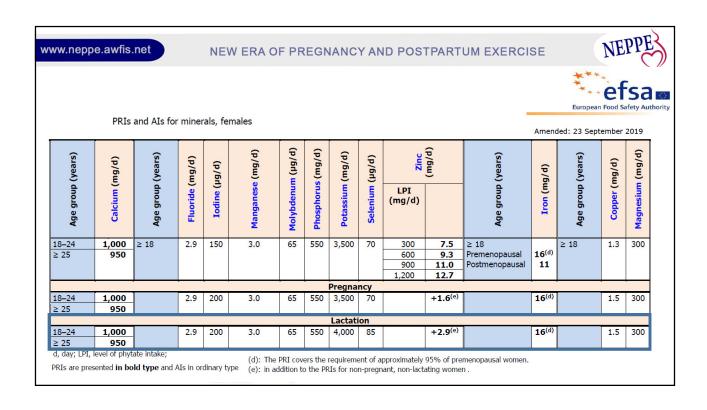
PRIs and AIs for vitamins, females

a-Tocopherol (mg/d) Folate (µg DFE/d) (a) Vitamin D (µg/d) (e) Vitamin A (µg/d) (c) Vitamin K (µg/d) (9) Age group (years) Riboflavin (mg/d) Vitamin B6 (mg/d) Cobalamin (µg/d) Vitamin C (mg/d) Niacin (mg NE/MJ) Pantothenic acid (mg/day) Thiamin (mg/MJ) Choline (mg/d) Biotin (µg/d) ≥ 18 11 400 4.0 330 1.6 1.6 0.1 650 1.6 **95** | 15^(f) 70 40 5 Pregnancy 11 40 480 4.5 600 **1.6** 5 **700 1.8 105** 15^(f) 70 1.9 0.1 Lactation 520 5.0 **500 1.6** 2.0 0.1 1,300 1.7 155 15^(f)

Amended: 23 September 2019

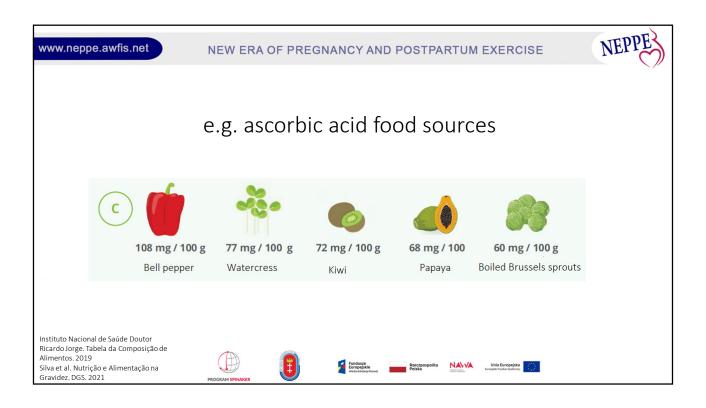
- d, day; MJ, megajoule;
- (a): DFE: dietary folate equivalents. For combined intakes of food folate and folic acid, DFEs can be computed as follows: µg DFE = μ g food folate + (1.7 x μ g folic acid)
- (b): NE: niacin equivalent (1 mg niacin = 1 niacin equivalent = 60 mg dietary tryptophan)
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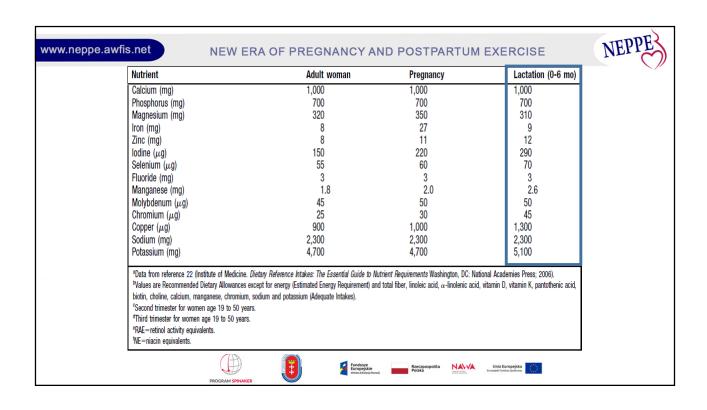


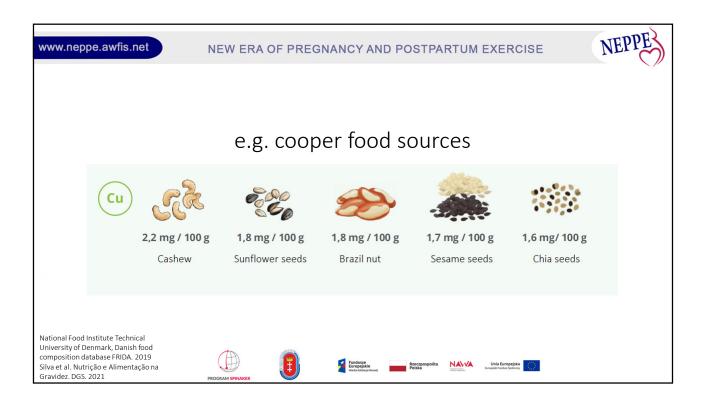


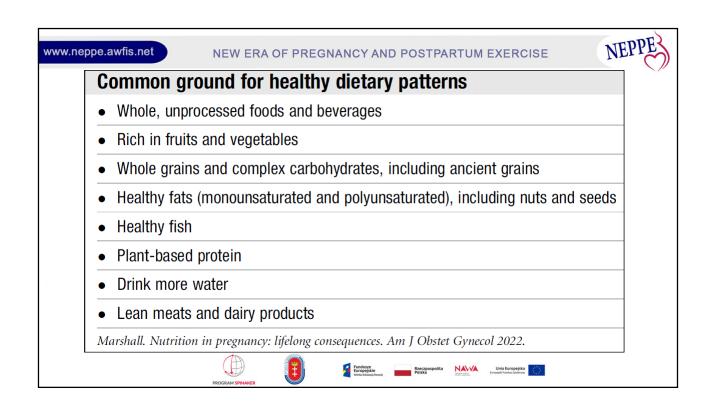


Nutrient	Adult woman	Pregnancy	Lactation (0-6 mo)
Energy (kcal)	2,403	2,743 ^c , 2,855 ^d	2,698
Protein (g/kg/d)	0.8	1.1	1.1
Carbohydrate (g/d)	130	175	210
Total fiber (g/d)	25	28	29
Linoleic acid (a/d)	12 700	13 770	13
Vitamin A (μg RAE ^θ)	700 5	5	1,300 5
Vitamin D (μ g) Vitamin E (mg α -tocopherol)	15	15	19
Vitamin K (μ g)	90	90	90
Vitamin C (mg)	75	85	120
Thiamin (mg)	1.1	1.4	1.4
Riboflavin (mg)	1.1	1.4	1.6
Vitamin B-6 (mg)	1.3	1.9	2.0
Niacin (mg NE ^f)	14	18	17
Folate (µg dietary folate equivalents)	400	600	500
Vitamin B-12 (μg)	2.4	2.6	2.8
Pantothenic acid (mg)	5	6	7
Biotin (μg)	30	30	35
Choline (mg)	425	450	550
^a Data from reference 22 (Institute of Medicine. Dieta	ry Reference Intakes: The Essential Guide to Nutrient	Requirements Washington, DC: National Academies Pr	ress; 2006).
^{to} Values are Recommended Dietary Allowances excep biotin, choline, calcium, manganese, chromium, sodi		fiber, linoleic acid, α -linolenic acid, vitamin D, vitamin	K, pantothenic acid,

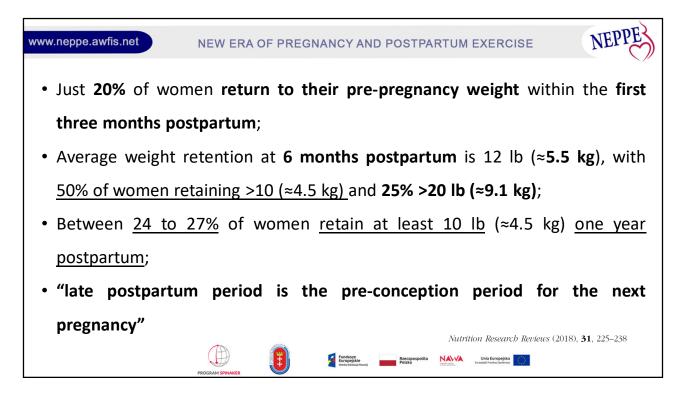




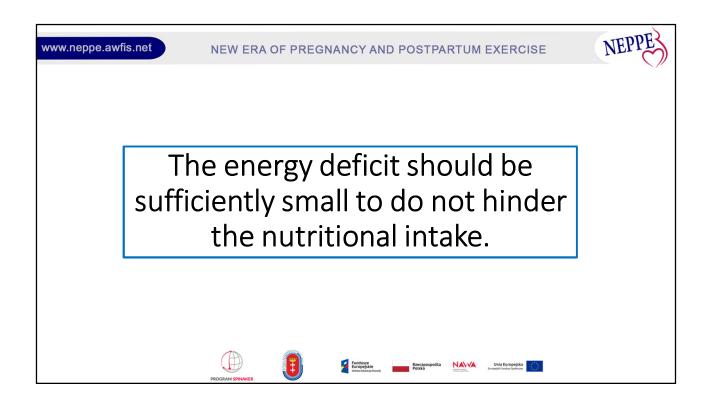












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	Diets to avoid during	pregnancyand postpartum	(if breastfeeding)	
	Atkins diet 20-40-100	Low carbohydrate (20 g), high fat, beef, pork, poultry, fish, eggs, cheese, and sources of fat	Limit starchy vegetables, grains, legumes, simple sugars, and milk	
	Paleo diet	Lean meats, fish, eggs, nuts, seeds, fruits, vegetables, and oils	Processed foods, wheat, other grains, legumes, dairy, potatoes, refined sugar, salt, and refined oils	
	Ketogenic diet	Extreme carbohydrate restriction ketosis, skin-on poultry, fattier beef, pork, fish, green leafy vegetables, oils, and solid fats	Avoid starchy root vegetables, bread, pasta, other grains, and fruit	
	BP, blood pressure; CVD, c Marshall. Nutrition in pr	ardiovascular disease. egnancy: lifelong consequences. Am J Obstet Gj	rnecol 2022.	







What does predict success in WL and WLM?



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Psychosocial Pretreatment Predictors of Weight Control: A Systematic Review Update

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self-efficacy). Many psychosocial factors remain too little studied to allow reliable conclusions regarding their predictive value. **Conclusion:** Previous dieting attempts were identified as the soundest predictor of successful weight management. Several factors, previously considered

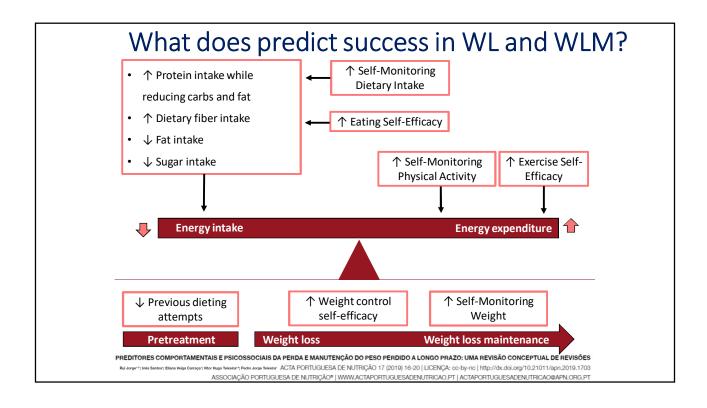
Pretreatment

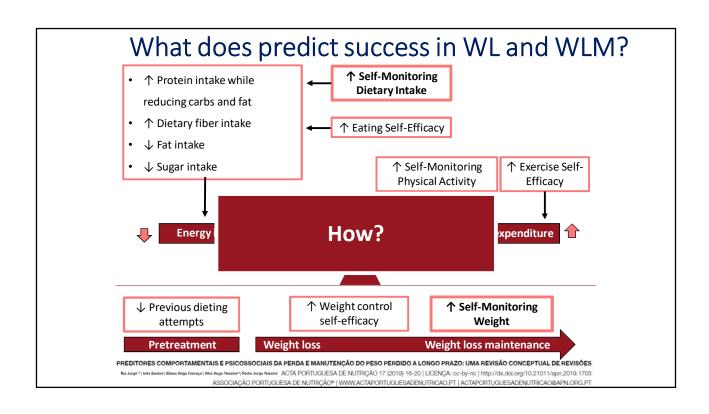
What can we do with this info?

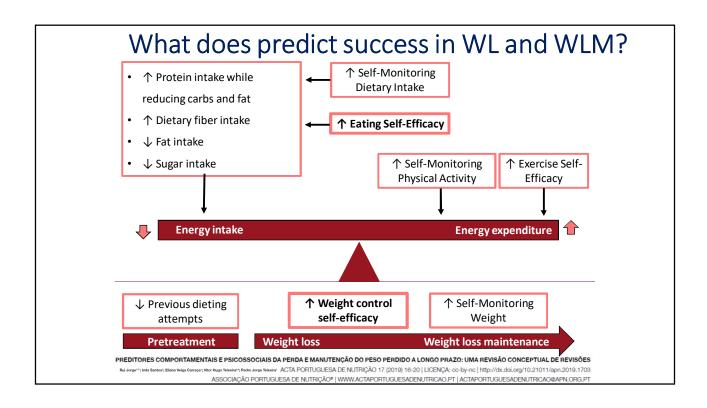
PREDITORES COMPORTAMENTAIS E PSICOSSOCIAIS DA PERDA E MANUTENÇÃO DO PESO PERDIDO A LONGO PRAZO: UMA REVISÃO CONCEPTUAL DE REVISÕES
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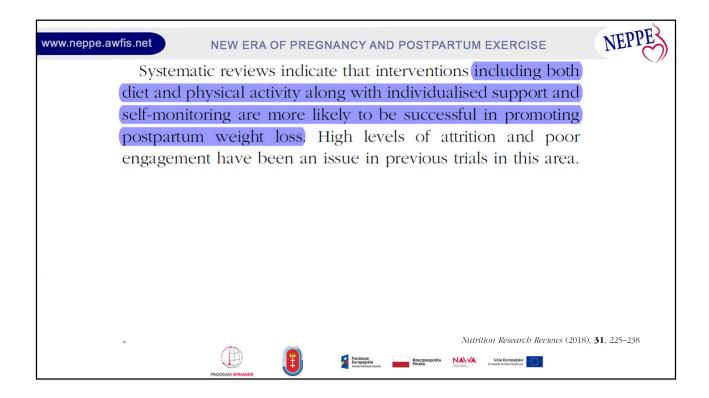
What does predict success in WL and WLM? - ↑ Protein intake while reducing carbs and fat - ↑ Dietary fiber intake - ↓ Fat intake - ↓ Sugar intake - ↓ Sugar intake - ↓ Previous dieting attempts Pretreatment Weight loss Weight loss maintenance PREDITORES COMPORTAMENTAIS E PSICOSSOCIAIS DA PERDA E MANUTENÇÃO DO PESO PERDIDO A LONGO PRAZO: UMA REVISÃO CONCEPTUAL DE REVISÃES ASSOCIAÇÃO PESO PERDIDO A LONGO PRAZO: UMA REVISÃO CONCEPTUAL DE REVISÃES ASSOCIAÇÃO PESO PERDIDO A LONGO PRAZO: UMA REVISÃO CONCEPTUAL DE REVISÃES ASSOCIAÇÃO PESO PERDIDO A LONGO PRAZO: UMA REVISÃO CONCEPTUAL DE REVISÃES ASSOCIAÇÃO PETRIDUES ASSOCIAÇÃO PETRIDUES SERVENTENCAPORTO PLACEMPORTUROS PERDA PLACEMPORTURO PERDA PLACEMPORTUROS PERDA PLACEMPORTURO PERDA P

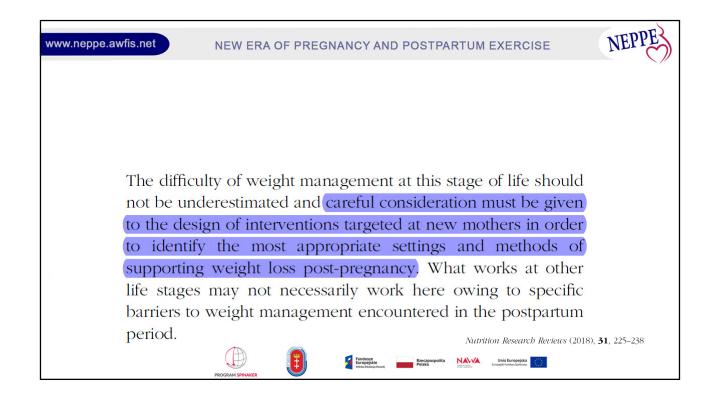












Successful weight loss maintenance: A systematic review of weight control registries











52 studies included; 6888 participants from the 5 weight control registries

In line with the most recent obesity treatment guidelines (3, 70, 71), the most frequently reported strategies encompassed reductions in energy intake and increases in energy expenditure (through physical activity/exercise). In fact, physical activity, total energy intake and also fat intake were the most consistent behavioral correlates of the magnitude of WLM, which is corroborated by a recent systematic review on

obesityreviews



Obesity Reviews. 2020;1-15.

www.neppe.awfis.net

NEW ERA OF PREGNANCY AND POSTPARTUM EXERCISE



Low- and non-caloric sweeteners

-If needed (e.g., gestational diabetes or weight management), consume foods with low- and non-caloric sweeteners (acesulfame potassium, aspartame, sucralose) in moderate amounts, adhering to the acceptable daily intake standards set by regulatory agencies. Avoid foods with cyclamate, saccharin and raw stevia leaf, as well as their infusions and extract.

Jorge, R., Teixeira, D., Ferreira, I., Alvarez-Falcón, AL. (2022). Diet Recommendations for the Pregnant Exerciser and Athlete. In: Santos-Rocha, R. (eds) Exercise and Physical Activity During Pregnancy and Postpartum. Springer, Cham. https://doi.org/10.1007/978-3-031-06137-0_14











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