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Chapter 02 - Preconceptio/test-litionk-nutrition-through-the-life-cycle-6e-brown

True / False

1. The subfertility of one partner can be overcome by the reproductive capacity in the other partner.

a. Trueb. False

ANSWER: True

REFERENCES: Preconception Overview

LEARNING OBJECTINTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives

VES: for the preconception period.

KEYWORDS: Understand

2. Weight gain is the recommended first-line treatment for amenorrhea related to low body weight.

a. Trueb. False

ANSWER: True

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Understand

3. Regular intake of soy foods such as tofu, soymilk, tempeh, and textured soy protein is related to elevated sperm count in men and increased fertility in women.

a. Trueb. False

ANSWER: False

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

4. Obese women tend to have higher levels of estrogen, androgens, and leptin than nonobese women.

a. Trueb. False

ANSWER: True

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

5. Women trying to get pregnant should avoid all sources of caffeine.

a. Trueb. False

ANSWER: False

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

6. Alcohol intake has been found to reduce fertility only in women with a specific gene variant that reduces the rate of alcohol breakdown in the body.

a. True

b. False

ANSWER: True

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

7. It is easier and more efficient to build up iron stores before pregnancy than during pregnancy.

a. True

b. False

ANSWER: True

REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Understand

8. It is preferable to meet nutrient requirements through dietary supplements rather than foods.

a. True

b. False

ANSWER: False

REFERENCES: Recommended Dietary Intake and Healthy Dietary Patterns for Preconceptional Women

LEARNING OBJE NTLC.BRWN.17.2.5 - Develop a one-day menu for a preconceptional woman and a man based on the

CTIVES: ChooseMyPlate.gov food guidance materials.

KEYWORDS: Understand

9. Fertility has been known to return immediately upon cessation of contraceptive use.

a. True

b. False

ANSWER: False

REFERENCES: Influence of Contraceptives on Preconceptional Nutrition Status

LEARNING OBJE NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of

CTIVES: combination hormonal contraceptives, and a consequence that is related to the use of estrogen or

combination normalization account account as a consequence that is related to the use of estrogen of

progestin contraceptives only.

KEYWORDS: Remember

10. In Indonesia, a couple Bloom's Applying for a marriage license are required to receive advice on iron status from those dispensing the license.

a. True

b. False

ANSWER: True

REFERENCES: Model Preconceptional Health and Nutrition Programs

LEARNING OBJEC S:	TIVE NTLC.BR health care		Ite three impor	tant nutri	tion-related	component	s of preconcepti	onal
KEYWORDS:	Remember							
11. The desire of constressful a time for p			o have a healthy	newborn	n means that	the precon	ceptional period	is too
·	a.		True					
	b.		False					
ANSWER:	False							
REFERENCES:	Model Pred	conceptional l	Health and Nutr	rition Prog	grams			
LEARNING OBJEC	TIVE NTLC.BR	WN.17.2.7 - 0	Cite three impor	tant nutrit	tion-related	component	s of preconcepti	onal
S:	health care		•			•		
KEYWORDS:	Remember	•						
Multiple Choice								
12. Fertility refers to	the .							
· · · · · · · · · · · · · · · · · · ·	cal capacity to be	ear children						
b. desire t	o bear children							
c. actual p	production of chil	ldren						
d. number	r of births per 100	00 miscarriage	es					
e. number	r of births per 100	00 women of	childbearing age	e				
ANSWER:	c							
REFERENCES:	Preconception	Overview						
LEARNING OBJEC	_		three examples	of the He	althy People	2020 nutr	ition-related obje	ectives
VES:	for the precond				, ,			
KEYWORDS:	Remember							
13. Infertility is gene	erally defined as	the lack of cor	nception after	of u	inprotected is	ntercourse.		
	a.	3 months	_		-			
	b.	6 months						
	c.	9 months						
	d.	1 year						
	e.	1.5 year						
ANSWER:	d							
REFERENCES:	Preconception	Overview						
LEARNING OBJEC VES:	•	.17.2.1 - Cite		of the He	althy People	2020 nutr	ition-related obj	ectives
KEYWORDS:	Remember	1 1						
14. Healthy couples menstrual cycle.	having regular, u	inprotected in	tercourse have a	a cl	hance of a d	iagnosed pr	regnancy within	a giver
	a.	15-20%	%					
	b.	20-25%	%					
	c.	25-30%	%					
	d.	30-50%	%					

	e.	50-75%	
ANSWER:	b		
REFERENCES:	Preconception	n Overview	
LEARNING OBJEC	CTINTLC.BRWN	N.17.2.1 - Cite th	ree examples of the Healthy People 2020 nutrition-related objectives
VES:	•	ception period.	
KEYWORDS:	Remember		
15. What is the rate	e of miscarriage i	n the first 20 wee	eks of pregnancy?
10. What is the face	a.		6%
	b.		7%
	c.		8%
	d.		9%
	e.		15%
ANSWER:	d		
REFERENCES:	Preconception	n Overview	
LEARNING OBJEO VES:		N.17.2.1 - Cite th aception period.	aree examples of the Healthy People 2020 nutrition-related objectives
KEYWORDS:	Remember		
16. The most comn	non cause of miso	carriage for wom	en is
	tructural abnorma	-	
	presence of a sev	•	
	ternal infection		
d. an	endocrine disorde	er	
e. phy	sical trauma to the	he mother	
ANSWER:	b		
REFERENCES:	Preconception	n Overview	
LEARNING OBJEO VES:		N.17.2.1 - Cite the ception period.	ree examples of the Healthy People 2020 nutrition-related objectives
KEYWORDS:	Remember		
17. The phas	se of the menstru	al cycle occurs a	fter ovulation
17. The phas	a.	follicular	ici ovalation.
	b.	luteal	
	c.	estrogen	
	d.	primordial	
	e.	FSH	
ANSWER:	b		
REFERENCES:	Reproductive Pl	nysiology	
LEARNING OBJE	NTLC.BRWN.1	7.2.2 - Identify	six major hormones involved in the regulation of male and female
CTIVES:	fertility processe	es, and identify t	heir source and effects on the regulation of fertility processes.
KEYWORDS:	Remember		
18. The first half of	f the menstrual cy	cle is called the	nhase.
10. The mon man of	a.	follicular	r

	b.	luteal
	c.	estrogen
	d.	primordial
	e.	menses
ANSWER:	a	
REFERENCES:	Reproductive Ph	ysiology
		7.2.2 - Identify six major hormones involved in the regulation of male and female
CTIVES:		s, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember	
19. Ovulation resu	lts from a surge in	the hormone.
a.	estrogen	
b.	progesteron	e
c.	luteinizing	
d.	follicle-stim	ulating
e.	gonadotropi	n-releasing
ANSWER:	c	
REFERENCES:	Reproductive Ph	
LEARNING OBJE CTIVES:		7.2.2 - Identify six major hormones involved in the regulation of male and female s, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember	
		e pituitary gland during the follicular phase of a woman's cycle are mone and progesterone
b. proge	sterone and estrog	een
	_	mone and luteinizing hormone
	izing hormone and	
	izing hormone and	d estrogen
ANSWER:	c	
REFERENCES:	Reproductive Ph	•
CTIVES:	fertility processe	7.2.2 - Identify six major hormones involved in the regulation of male and female s, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Remember	
21. The rele	ases , stimu	lating the pituitary gland to release FSH and LH.
	y; estrogen	
b. ovar	y; progesterone	
c. uter	us; progesterone	
d. hypo	othalamus; estroge	n
e. hypo	othalamus; gonado	stropin-releasing hormone
ANSWER:	e	
REFERENCES:	Reproductive Ph	ysiology
LEARNING OBJE CTIVES:		7.2.2 - Identify six major hormones involved in the regulation of male and female s, and identify their source and effects on the regulation of fertility processes.
KEYWORDS:	Understand	

	n, the corpus luteum secre				
a. progestero	one and estrogen; stimulat	tes the ovulation of a second egg			
b. progestero	one and estrogen; stimulates development of the endometrium				
c. follicle-sti	mulating hormone and lu	teinizing hormone; stimulates development of the endometrium			
d. luteinizing	g hormone and estrogen; f	facilitates fertilization of the egg			
e. luteinizing	g hormone and estrogen; s	stimulates ovulation of a second egg			
ANSWER:	b				
REFERENCES:	Reproductive Physiolog	gy			
LEARNING OBJE		Identify six major hormones involved in the regulation of male and female			
CTIVES:	• •	dentify their source and effects on the regulation of fertility processes.			
KEYWORDS:	Understand				
23. A menstrual flo	ow results from .				
	ation of a fertilized in the	endometrium			
•	n progesterone and estrog				
•		sing hormone by the hypothalamus			
	duction of prostaglandins				
_		strogen by the corpus luteum			
ANSWER:	b	surgen by the corpus rateum			
REFERENCES:	Reproductive Physiolog	rv			
		Identify six major hormones involved in the regulation of male and female			
CTIVES:		identify their source and effects on the regulation of fertility processes.			
KEYWORDS:	Understand				
24. In a "typical" 2	• •	l levels of luteinizing hormone most likely be the highest?			
	a. 1	day 1			
	b.	day 7			
	c.	day 10			
	d.	day 14			
(Marrier)	e.	day 28			
ANSWER:	d				
REFERENCES:	Reproductive Physiolog	•			
LEARNING OBJE		Identify six major hormones involved in the regulation of male and female			
CTIVES:	* *	dentify their source and effects on the regulation of fertility processes.			
KEYWORDS:	Apply				
25. Cramps and otl	her side effects of menstr	uation can be traced back to the production of by the uterus.			
a.	progesterone				
b.	estrogen				
c.	prostaglandins				
d.	luteinizing hormone				
e.	gonadotropin-releasing l	hormone			
ANSWER:	c				
REFERENCES:	Reproductive Physiolog	gy			

LEARNING OBJE CTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.				
KEYWORDS:	Remember				
26. The female gon	ads are the while the male gonads are the				
a.	ovaries; testes				
b.	ovaries; epididymis				
c.	uterus; testes				
d.	uterus; prostate gland				
e.	ovaries; prostate gland				
ANSWER:	a				
REFERENCES:	Reproductive Physiology				
LEARNING OBJE CTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.				
KEYWORDS:	Remember				
27. In males, matur	re sperm are stored in the				
	a. testes				
	b. urethra				
	c. prostate gland				
	d. seminal vesicles				
	e. epididymis				
ANSWER:	e				
REFERENCES:	Reproductive Physiology				
LEARNING OBJE CTIVES:	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female fertility processes, and identify their source and effects on the regulation of fertility processes.				
KEYWORDS:	Remember				
28. Which hormone	e(s) trigger(s) the production of testosterone by the testes?				
a. follicl	e-stimulating hormone only				
b. luteini	izing hormone only				
c. proges	sterone only				
d. luteinizing hormone and progesterone					
e. follicle-stimulating hormone and luteinizing hormone					
ANSWER:	e				
REFERENCES:	Reproductive Physiology				
	NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female				
CTIVES:	fertility processes, and identify their source and effects on the regulation of fertility processes.				
KEYWORDS:	Remember				
29. Semen is compe	osed of				
a. sperm only	I				
b. sperm and	secretions from the bulbourethral gland only				
c. secretions	c. secretions from the bulbourethral gland, prostate, and seminal vesicles only				

d. sperm and secretions from the testes, bulbourethral gland, prostate, and seminal vesicles

e. sperm and secretions from the bulbourethral gland, prostate, and vas deferens

ANSWER: d

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

- 30. Endometriosis is defined as . .
 - a. scarring and blockage of the fallopian tubes
 - b. the condition in which endometrial tissue becomes embedded within other body tissues
 - c. a modification of pregnancy hormones that results in infertility
 - d. an infection of the cervix
 - e. the inability to get pregnant

ANSWER:

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

- 31. The leading diagnoses related to infertility are .
 - a. endocrine abnormalities that modify hormonal regulation of fertility
 - b. unknown causes
 - c. environmental contaminants such as lead and mercury
 - d. overweight and obesity in men
 - e. sexually transmitted diseases

ANSWER: a

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

- 32. Which factor would be more likely to affect female fertility than male fertility?
 - a. inadequate body fat
 - b. poor iron stores
 - c. high alcohol intake
 - d. excessive body fat
 - e. excessive exercise

ANSWER: b

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

- 33. Which factor has been linked to impaired fertility in males but not females?
 - a. high sperm count

- b. oxidative stress
- c. severe psychological stress
- d. excessive heat to the gonads
- e. diabetes

ANSWER: d

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

- 34. Which statement related to male and female fertility is true?
 - a. During a female's fertile years, approximately 1000 ova will mature and be released for possible fertilization.
 - b. For males, sperm numbers and viability decrease somewhat after age 30.
 - c. For both males and females, the quality of eggs and sperm decrease somewhat with age.
 - d. Females are born with mature eggs.
 - e. Males produce sperm from birth until death.

ANSWER: c

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

- 35. Pelvic inflammatory disease (PID) can .
 - a. cause less estrogen to be secreted, thus blocking ovulation
 - b. lead to scarring and blockage of the fallopian tubes
 - c. cause sperm to become less viable, when transferred to a male
 - d. increase the lining of the endometrium
 - e. decrease zinc absorption

ANSWER: b

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Understand

36. A body mass index (BMI) greater than ____ kg/m² is typically needed to sustain normal reproductive function in women.

a.	17
b.	20
c.	25
d.	30
e.	35

ANSWER: b

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS:	Remember		
37. An anovulatory	y cycle is .		
a. the ab			
b. a menstrual cycle in which ovulation does not occur			
c. an abn	normally short menstrual cycle		
d. an abn	normally long menstrual cycle		
e. a men	strual cycle in which more than one egg is ovulated		
ANSWER:	b		
REFERENCES:	Nutrition and Fertility		
LEARNING OBJE	VG OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat		
CTIVES:	content, iron status, and alcohol intake on fertility in females and males.		
KEYWORDS:	Remember		
38 Which dietary	component can protect cells of the reproductive system from damage by free radicals?		
36. Which dictary	a. fiber		
	b. calcium		
	c. iron		
	d. fat		
	e. antioxidants		
ANSWER:	e e		
REFERENCES:	Nutrition and Fertility		
	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat		
CTIVES:	content, iron status, and alcohol intake on fertility in females and males.		
KEYWORDS:	Remember		
39 Young female	athletes often experience a delay in menarche of approximately what duration?		
~	nonths to 1 year		
	2 years		
	o 4 years		
	ears		
•	ey do not experience a delay in menarche.		
ANSWER:	c		
REFERENCES:	Nutrition and Fertility		
	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat		
CTIVES:	content, iron status, and alcohol intake on fertility in females and males.		
KEYWORDS:	Remember		
40. In men who dri	ink 5-25 alcoholic drinks per week,		
	sperm count increases		
	sterone levels decrease		
	n concentration increases		
-	percent of sperm with normal shape decreases		
_	e is no effect on fertility		
ANSWER:	d		

REFERENCES:	Nutrition and Fertility				
LEARNING OBJE	NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat				
CTIVES:	content, iron status, and alcohol intake on fertility in females and males.				
KEYWORDS:	Understand				
41. The fertilized ea	gg is called an embryo from				
a.	conception until birth				
b.	conception through 8 weeks				
c.	conception through 4 months				
d.	8 weeks until birth				
e.	9 months until birth				
ANSWER:	b				
REFERENCES:	Nutrition During the Periconceptional Period				
LEARNING OBJE CTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.				
KEYWORDS:	Remember				
42. The developme	nt of facial and heart defects in the fetus has been linked to in the mother.				
a.	excessive vitamin A intake				
b.	iron deficiency				
c.	high blood levels of lead				
d.	obesity				
e.	folate deficiency				
ANSWER:	a				
REFERENCES:	Nutrition During the Periconceptional Period				
LEARNING OBJE CTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.				
KEYWORDS:	Remember				
43. DNA methylati	on .				
· · · · · · · · · · · · · · · · · · ·	es gene function in the fetus during late pregnancy				
b. activat	es gene expression				
c. is an al	bnormal part of development				
d. is need	led for cellular differentiation				
e. is unaf	fected by nutritional intake				
ANSWER:	d				
REFERENCES:	Nutrition During the Periconceptional Period				
LEARNING OBJE CTIVES:	NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional status during the periconceptional period and the outcome of pregnancy.				
KEYWORDS:	Remember				
44. Spina bifida is a	an example of a				
-	eural tube defect				
b. D	ONA modification				
c. g	ene variant				

d. nutritional deficiency e. metabolic programming mechanism ANSWER: a REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Remember

- 45. The risk of early delivery is increased by . . .
 - a. excessive vitamin A intake
 - b. iron deficiency
 - c. iodine deficiency
 - d. high maternal blood levels of lead
 - e. diabetes

ANSWER: b

REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Remember

- 46. Refined grain products are often fortified with to decrease rates of .
 - a. folic acid; neural tube defects
 - b. iron; neural tube defects
 - c. iodine; early delivery
 - d. folic acid; early delivery
 - e. vitamin A; fetal heart abnormalities

ANSWER: a

REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Understand

- 47. What nutritional and health advice would a doctor likely give to a preconceptional couple?
 - a. The woman's physical activity should be limited to less than 30 minutes per day.
 - b. For vegetable intake, both should eat mostly dark green vegetables.
 - c. At least half of the woman's grain intake should be refined grains.
 - d. The woman's vitamin should take at least 10,000 IU of vitamin A per day.
 - e. The woman should consume 400 mcg of folic acid in addition to dietary folate.

ANSWER: e

REFERENCES: Recommended Dietary Intake and Healthy Dietary Patterns for Preconceptional Women

LEARNING OBJE NTLC.BRWN.17.2.5 - Develop a one-day menu for a preconceptional woman and a man based on the

CTIVES: ChooseMyPlate.gov food guidance materials.

KEYWORDS: Apply

48. Contraceptives may contain _____.

luteinizing hormone only

estradiol only or progestin only

a. estradiol only

d. progest	tin only or a	combination of estradiol and progestin
e. a comb	oination of l	uteinizing hormone and progestin
ANSWER:	d	
REFERENCES:	Influence of	of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJE CTIVES:	combinatio	WN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of on hormonal contraceptives, and a consequence that is related to the use of estrogen or contraceptives only.
KEYWORDS:	Remember	
		atraceptives are least likely to be associated with
a. weigh	C	
		evels of HDL cholesterol
	sed risk of b	
d. increa	sed levels o	f triglycerides and LDL cholesterol
e. increa	sed blood g	lucose and insulin
ANSWER:	a	
REFERENCES:	Influence of	of Contraceptives on Preconceptional Nutrition Status
LEARNING OBJE CTIVES:	combinatio	WN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of on hormonal contraceptives, and a consequence that is related to the use of estrogen or contraceptives only.
KEYWORDS:	Remember	
50. A woman would		ndvised to switch from a progestin-only hormonal contraceptive to a combination hormona
1	a.	weight gain
	b.	irritability
	c.	fatigue
	d.	headache
	e.	abdominal pain
ANSWER:	a	•
	Influence of	of Contraceptives on Preconceptional Nutrition Status
	NTLC.BRY combination	WN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of on hormonal contraceptives, and a consequence that is related to the use of estrogen or contraceptives only.
KEYWORDS:	Understand	1
51. Fertility usually	resumes w	ithin after contraceptive use stops.
2111 21111111	a.	3 to 6 weeks
	b.	3 to 6 months
	c.	3 to 6 days
	d.	6 to 10 weeks
	e.	6 to 10 months

ANSWER: REFERENCES: Influence of Contraceptives on Preconceptional Nutrition Status LEARNING OBJE NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or CTIVES: progestin contraceptives only. KEYWORDS: Remember 52. Women taking oral contraceptive pills are cautioned against . consuming large amounts of animal products b. consuming too many carbohydrates eating more than $\frac{1}{2}$ cup of peanut butter weekly c. d. smoking e. ingesting too much vitamin A ANSWER: d REFERENCES: Influence of Contraceptives on Preconceptional Nutrition Status LEARNING OBJE NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of CTIVES: combination hormonal contraceptives, and a consequence that is related to the use of estrogen or progestin contraceptives only. KEYWORDS: Remember 53. Among the hormonal contraceptives being developed for men are those containing as a means of . a. estradiol; inhibiting release of sperm into the semen b. luteinizing hormone; reducing sperm production c. testosterone; reducing sperm production luteinizing hormone; inhibiting release of sperm into the semen testosterone; inhibiting ejaculation ANSWER: REFERENCES: Influence of Contraceptives on Preconceptional Nutrition Status LEARNING OBJE NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of combination hormonal contraceptives, and a consequence that is related to the use of estrogen or CTIVES: progestin contraceptives only. KEYWORDS: Understand 54. In a study done in California, women who received WIC benefits from one pregnancy through the first two months of their second pregnancy had than women who only received WIC services during their first pregnancy. better iron status a. b. lower zinc levels newborns with lower birth weights c. d. newborns with lower birth lengths e. higher blood glucose levels ANSWER: REFERENCES: Model Preconceptional Health and Nutrition Programs LEARNING OBJECTIVE NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional S: health care.

Understand

KEYWORDS:

Chapter 02 - P	reconce	otion Nutrition
55. A potential	future tai	get audience of the WIC program is low-income
		postpartum women
	b.	pregnant women
	c.	children
	d.	breastfeeding women
	e.	preconceptional women
ANSWER:		a
REFERENCES	!:	Model Preconceptional Health and Nutrition Programs
LEARNING OF S:	BJECTIVI	E NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional health care.
KEYWORDS:		Understand
56. Which Ame		titute released a report in 2006, highlighting recommendations for improving preconception rvices?
a.	Food and	Drug Administration
b.	US Depa	rtment of Agriculture
c.	Centers f	or Disease Control and Prevention
d.	National	Institutes of Health
e.	National	Academy of Nutrition and Dietetics
ANSWER:		c
REFERENCES	: :	Model Preconceptional Health and Nutrition Programs
LEARNING OF	BJECTIVI	E NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional health care.
KEYWORDS:		Remember
57. The National for the delivery a.	of nutrit	my of Nutrition and Dietetics has developed a set of standards called to serve as guidelines ion services. utrition Care Process
b.	WIC	
c.	Preco	nception Health Services
d.		ancy Health Standards
e.	_	nception Nutrition Guidelines
ANSWER:		a
REFERENCES	!:	The Nutrition Care Process
LEARNING OF		ES: NTLC.BRWN.17.2.8 - Describe the four steps of the Nutrition Care Process.
KEYWORDS:		Remember
a. Preconb. Pregna	ception h nt female	rectly describes preconception health care? ealth care is concerned with the health and nutrition status of females rather than males. es are a target audience of preconception health care. development is not a concern of preconception health care.

d. Preconception health care may concern topics such as weight and dietary supplement use.

e. Preconception health care advises couples about the most effective contraceptive methods to use.

REFERENCES:

ANSWER:

The Nutrition Care Process

LEARNING OBJECTIVES: NTLC.BRWN.17.2.8 - Describe the four steps of the Nutrition Care Process.

KEYWORDS: Remember

Matching

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
- d. The actual production of children
- e. The developing organism from 8 weeks to birth
- f. The developing organism from conception to 8 weeks
- g. The involuntary absence of production of children
- h. Taking an unusually long time to conceive or having repeated, early pregnancy losses
- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle
- k. The loss of a conceptus in the first 20 weeks of pregnancy

REFERENCES: Preconception Overview

LEARNING OBJECTINTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives

VES: for the preconception period.

KEYWORDS: Remember

59. Fetus

ANSWER:

60.

ANSWER:

61. Subfertility

ANSWER:

62. Fetus

ANSWER:

63. Fertility

ANSWER:

64. Infecundity

ANSWER:

65. Miscarriage

ANSWER: k

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children

- d. The actual production of children
- e. The developing organism from 8 weeks to birth
- f. The developing organism from conception to 8 weeks
- g. The involuntary absence of production of children
- h. Taking an unusually long time to conceive or having repeated, early pregnancy losses
- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle
- k. The loss of a conceptus in the first 20 weeks of pregnancy

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Remember

66. Puberty

ANSWER:

67. Corpus luteum

ANSWER: b

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
- d. The actual production of children
- e. The developing organism from 8 weeks to birth
- f. The developing organism from conception to 8 weeks
- g. The involuntary absence of production of children
- h. Taking an unusually long time to conceive or having repeated, early pregnancy losses
- i. The period in life in which humans become biologically capable of reproduction
- j. The absence of a menstrual cycle
- k. The loss of a conceptus in the first 20 weeks of pregnancy

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Remember

68. Amenorrhea

ANSWER:

Matching

- a. The biological inability to bear children after one year of unprotected intercourse
- b. The mass of tissue formed from the follicle after the egg is released
- c. The biological ability to bear children
- d. The actual production of children
- e. The developing organism from 8 weeks to birth
- f. The developing organism from conception to 8 weeks

g. The involuntary absence of production of children

h. Taking an unusually long time to conceive or having repeated, early pregnancy losses

i. The period in life in which humans become biologically capable of reproduction

j. The absence of a menstrual cycle

k. The loss of a conceptus in the first 20 weeks of pregnancy

REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Remember

69. The developing organism from conception to 8 weeks

ANSWER:

Subjective Short Answer

70. Describe the three types of individuals who would be considered subfertile.

ANSWER: Women who experience multiple miscarriages (variously defined as two or three), men who have

sperm abnormalities (such as low sperm count or density, malformed sperm, or immobile sperm), and

women who ovulate infrequently are considered subfertile.

REFERENCES: Preconception Overview

LEARNING OBJE NTLC.BRWN.17.2.1 - Cite three examples of the Healthy People 2020 nutrition-related objectives

CTIVES: for the preconception period.

KEYWORDS: Understand

71. Discuss the relationship of weight and body fat in females. How can being very underweight or being very overweight affect fertility?

ANSWER:

In normal-weight women, weight loss that exceeds approximately 10–15 percent of usual weight decreases estrogen, LH, and FSH concentrations. Consequences of these hormonal changes include amenorrhea, anovulatory cycles, and short or absent luteal phases. It is estimated that about 30 percent of cases of impaired fertility are related to simple weight loss. Hormone levels tend to return to normal when weight is restored to within 95 percent of previous weight. Weight gain is the recommended first-line treatment for amenorrhea related to low body weight.

Obese women tend to have higher levels of estrogen, androgens, and leptin than nonobese women. These hormonal changes favor the development of menstrual-cycle irregularity (it occurs in 30 to 47 percent of overweight and obese women), ovulatory failure and anovulatory cycles, and amenorrhea. Loss of body fat is related to improvements in hormone levels, oxidative stress and chronic

Loss of body fat is related to improvements in normone levels, oxidative stress and chronic

inflammation, and conception rates in both men and women.

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

72. Describe the difference in development of mature eggs and sperm.

ANSWER: Females are born with a complement of immature ova and males with sperm-producing capabilities.

For women, approximately 7 million immature ova, or primordial follicles, are formed during early fetal development, but only about one-half million per ovary remain by the onset of puberty. During a woman's fertile years, some 400–500 ova will mature and be released for possible fertilization. Due to losses in viable ova over time, very few remain by menopause. For men, sperm numbers and viability

decrease somewhat after approximately 35 years of age, but sperm are produced from puberty until

death.

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Understand

73. Define pelvic inflammatory disease and explain its cause.

ANSWER: Pelvic inflammatory disease is a general term applied to infections of the cervix, uterus, fallopian

tubes, or ovaries. It occurs predominantly in young women and is generally caused by infection with a

sexually transmitted disease, such as gonorrhea or Chlamydia.

REFERENCES: Reproductive Physiology

LEARNING OBJE NTLC.BRWN.17.2.2 - Identify six major hormones involved in the regulation of male and female

CTIVES: fertility processes, and identify their source and effects on the regulation of fertility processes.

KEYWORDS: Understand

74. A couple trying to become pregnant for six months without success sought medical care. The husband had a body mass index of 28 and the woman had irregular menses. During their medical visit, the woman mentioned that she had lost 10 pounds one month ago because she was worried about gaining too much weight in pregnancy. What types of dietary or lifestyle behaviors would be important to discuss?

ANSWER: The husband's body mass index indicates that he is overweight. His excess body fat may be affecting

his fertility. Thus, he may be advised to eat a healthier diet, following nutritional guidelines, and exercise because loss of body fat is related to improvements in hormone levels, oxidative stress and chronic inflammation, and conception rates. The woman's irregular menses after losing 10 pounds suggests that her weight loss negatively affected her fertility. Particularly, if she was originally of normal weight and lost 10 to 15% of her body weight through her diet, such weight loss has been linked to decreased estrogen, LH, and FSH concentrations. Her irregular menses, termed amenorrhea, may return to normal if her weight is restored to within 95% of her previous weight. Through

regaining weight, her hormone levels may be returned to normal and her fertility improved.

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Remember

75. Explain how contraceptive pills containing estradiol and progestin work.

ANSWER: When used together, estradiol and progestin suppress the action of LH and FSH and thereby

ovulation. Progestin blocks LH and ovulation, and, by causing the cervical mucus to become thick

and sticky, it induces a barrier to sperm.

REFERENCES: Influence of Contraceptives on Preconceptional Nutrition Status

LEARNING OBJE NTLC.BRWN.17.2.6 - Identify three nutrition-related consequences that may be related to the use of

CTIVES: combination hormonal contraceptives, and a consequence that is related to the use of estrogen or

progestin contraceptives only.

KEYWORDS: Understand

76. How might male reproductive health suffer due to inadequate intake of antioxidant nutrients?

ANSWER: Antioxidant nutrients are needed to protect cells of the reproductive system, including eggs and

sperm, from damage due to oxidative stress. Oxidative stress occurs when the production of potentially destructive reactive oxygen molecules (free radicals) exceeds the body's own antioxidant

defenses. Reactive oxygen molecules attack polyunsaturated fatty acids in sperm membranes, and that

decreases sperm motility and reduces the ability of sperm to fuse with an egg. Once the membrane surrounding sperm is damaged, reactive oxygen molecules can enter the sperm cell and damage DNA. This can result in the passage of defective DNA.

REFERENCES: Nutrition and Fertility

LEARNING OBJE NTLC.BRWN.17.2.3 - Describe the potential effects of nutrition-related factors such as body fat

CTIVES: content, iron status, and alcohol intake on fertility in females and males.

KEYWORDS: Understand

77. Discuss the gene variant associated with folate status and its importance to preconceptional women.

ANSWER: Some individuals have an increased need for folate due to specific gene variants involved in folate metabolism. These gene variants can impair the conversion of folate to its active form and increase

folate requirement. One of the best-studied and most common gene variants affects 5, 10-

methylenetetrahydrofolate reductase (MTHFR) activity. This enzyme is responsible for production of the major circulating form of folate used by the body. The C677T allele of the gene that encodes for MTHFR produces an enzyme that has reduced activity. Women with this gene variant are at increased

risk of having an NTD-affected newborn.

REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Understand

78. A nonprofit organization wants to support the 2020 nutrition objective for the nation that is related to reducing the incidence of spina bifida and other neural tube defects. Define neural tube defects and describe the time frame for their development after conception. Also, discuss any recommended behavioral or nutritional interventions important for women considering pregnancy.

ANSWER:

Neural tube defects (NTDs) are a group of birth defects that are caused by incomplete development of the brain, spinal cord, or their protective coverings. Spina bifida is one of the most common types of NTDs. NTDs develop between the third and fourth week after conception—or before many women even know they are pregnant, and well before prenatal care generally begins. Folate is an essential nutrient required for DNA replication and as a component of enzymatic reactions involved in amino acid synthesis and vitamin metabolism. Knowledge of the folate—neural tube defect relationship, and awareness that folate intake was inadequate in many women of childbearing age, prompted public health efforts to increase folate intake. In particular, efforts are focused on encouraging women to consume folic acid, a highly absorbable, synthetic form of this B vitamin. In 1998, the Food and Drug Administration mandated that refined grain products such as white bread, grits, crackers, rice, and pasta be fortified with folic acid. Many countries now fortify refined grain products with folic acid, and rates of NTDs have decreased significantly in these countries.

REFERENCES: Nutrition During the Periconceptional Period

LEARNING OBJE NTLC.BRWN.17.2.4 - Cite four examples of relationships between nutrient intake and nutritional

CTIVES: status during the periconceptional period and the outcome of pregnancy.

KEYWORDS: Understand

79. What types of services are offered as part of preconceptional care?

ANSWER: Services focus on risk assessment of behaviors such as weight status, dietary and alcohol intake, folate

and iron status, and vitamin, mineral, and herbal supplement use, as well as on the presence of diseases such as diabetes, hypertension, infections, and genetic traits that may be transmitted to offspring. Psychosocial needs should also be addressed as part of preconceptional care, and referrals made to appropriate services for issues such as eating disorders, abuse, violence, or lack of food or

shelter.

REFERENCES: Model Preconceptional Health and Nutrition Programs

LEARNING OBJE NTLC.BRWN.17.2.7 - Cite three important nutrition-related components of preconceptional health

CTIVES: care.

KEYWORDS: Understand

80. List the four steps of the Nutrition Care Process.

ANSWER: The Nutrition Care Process consists of nutrition assessment, nutrition diagnosis, nutrition

intervention, and nutrition monitoring and evaluation.

REFERENCES: The Nutrition Care Process

LEARNING OBJECNTLC.BRWN.17.2.8 - Describe the four steps of the Nutrition Care Process.

TIVES:

KEYWORDS: Remember