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**Question: 1002**

Which of the following would be considered an appropriate professional boundary for a health coach?

- A. Accepting a client's invitation to their personal family events
- B. Connecting with clients on personal social media accounts
- C. Maintaining a clear separation between the coaching relationship and any personal relationships
- D. All of the above

Answer: C

Explanation: Maintaining a clear separation between the coaching relationship and any personal relationships is considered an appropriate professional boundary for health coaches. This helps ensure the focus remains on the client's health and wellness goals, and prevents any conflicts of interest or blurred lines that could undermine the integrity of the coaching process. Accepting invitations to personal events or connecting on personal social media would be considered inappropriate boundary violations.

**Question: 1003**

Singlet oxygen can be generated in the body through which of the following processes?

- A. Photosensitization reactions
- B. Enzymatic dismutation of superoxide
- C. Mitochondrial electron transport chain

D. All of the above

Answer: D

Explanation: Singlet oxygen can be generated in the body through various processes, including photosensitization reactions, the enzymatic dismutation of superoxide, and the mitochondrial electron transport chain. These different pathways can lead to the formation of this highly reactive oxygen species within the cellular environment.

**Question: 1004**

How should a health coach respond if a client presents with an emergency situation that poses a risk to their safety or wellbeing?

- A. Attempt to resolve the situation independently, without outside assistance
- B. Provide the client with a general recommendation to seek medical attention
- C. Immediately implement the established emergency action plan and protocols
- D. Refer the client to another health professional and terminate the coaching relationship

Answer: C

Explanation: In the event of an emergency situation that poses a risk to a client's safety or wellbeing, the health coach should immediately implement the established emergency action plan and protocols. This may involve contacting emergency services, activating a predefined crisis management process, and providing the client with appropriate support and resources.

**Question: 1005**

What is the role of the enzyme indoleamine 2,3-dioxygenase (IDO) in the regulation of IgE-mediated allergic responses?

- A. IDO promotes the differentiation of Th2 cells.
- B. IDO enhances the production of IgE antibodies.
- C. IDO suppresses the activation of mast cells and basophils.
- D. IDO inhibits the development of regulatory T cells.

Answer: C

Explanation: Indoleamine 2,3-dioxygenase (IDO) is an enzyme that can suppress the activation of mast cells and basophils, the key effector cells in the IgE-mediated allergic response. IDO catalyzes the degradation of the amino acid tryptophan, which is essential for the production of inflammatory mediators by these cells.

**Question: 1006**

How can a health coach effectively address breaches of trust or intimacy that may occur in the coaching relationship?

- A. Immediately end the coaching relationship and refer the client to another coach.
- B. Confront the client directly and assert the coach's authority and professional expertise.
- C. Engage in an open, honest dialogue with the client to understand and resolve the issue.
- D. Avoid addressing the breach and continue the coaching process as if nothing happened.

Answer: C

Explanation: To effectively address breaches of trust or intimacy that may occur in the coaching relationship, a health coach should engage in an open, honest dialogue with the client to understand and resolve the issue. This client-

centered approach allows the coach and client to collaboratively address the breach, identify the underlying causes, and work towards repairing the relationship. In contrast, immediately ending the relationship or confronting the client directly are unlikely to lead to a productive resolution.

**Question: 1007**

A 42-year-old client has a resting heart rate of 75 bpm and a predicted maximal heart rate of 178 bpm. If the client's desired exercise intensity is between 65% and 80% of their maximal heart rate, what is their target heart rate zone?

- A. 115 - 135 bpm
- B. 120 - 140 bpm
- C. 125 - 145 bpm
- D. 130 - 150 bpm

Answer: D

**Explanation:**

To calculate the client's target heart rate zone, we need to first determine their maximal heart rate using the formula:

$$\text{Maximal HR} = 220 - \text{age}$$

$$\text{Maximal HR} = 220 - 42 = 178 \text{ bpm}$$

Then, we need to calculate the lower and upper limits of the target heart rate zone based on the desired exercise intensity range of 65-80% of the maximal heart rate.

$$\text{Lower limit: } 65\% \text{ of } 178 \text{ bpm} = 0.65 \times 178 = 115.7 \text{ bpm}$$

$$\text{Upper limit: } 80\% \text{ of } 178 \text{ bpm} = 0.80 \times 178 = 142.4 \text{ bpm}$$

Rounding these values, the target heart rate zone is 130 - 150 bpm.

**Question: 1008**

Which of the following is the MOST important consideration for a health coach when selecting behavior change strategies for a client?

- A. The coach's personal preferences and experience with certain strategies.
- B. The specific behavior change techniques recommended by research.
- C. The client's unique needs, preferences, and readiness for change.
- D. The strategies that have proven most effective for the coach's other clients.

Answer: C

Explanation: The most important consideration for a health coach when selecting behavior change strategies is the client's unique needs, preferences, and stage of readiness for change. Effective health coaching requires a highly personalized approach that takes into account the client's individual circumstances, values, and motivations. Strategies that may work well for one client may not be appropriate or effective for another, so the coach must tailor the approach accordingly.

**Question: 1009**

Which of the following is a key principle of the Health at Every Size (HAES) approach to health and wellness?

- A. Weight loss should be the primary focus for improving health.
- B. Physical activity and exercise are the most important factors for health.
- C. Individuals should be accepted and respected regardless of their body size.
- D. Restrictive dieting and calorie counting are essential for good health.

Answer: C

Explanation: The Health at Every Size (HAES) approach rejects the notion that weight loss should be the primary focus for improving health. Instead, it

emphasizes respecting and accepting individuals regardless of their body size or weight, and focusing on overall wellbeing and health-promoting behaviors rather than solely on weight or appearance.

**Question: 1010**

How does the acute stress response influence the endocrine system?

- A. Acute stress has no impact on the endocrine system.
- B. Acute stress enhances the production and secretion of all hormones.
- C. Acute stress suppresses the production and secretion of all hormones.
- D. Acute stress selectively enhances the production of some hormones while suppressing others.
- E. Acute stress shifts the endocrine system towards a catabolic state.

Answer: D

Explanation: The acute stress response involves complex interactions with the endocrine system. While it enhances the production and secretion of stress hormones like cortisol and adrenaline, it can also suppress the production of other hormones, such as those involved in reproductive, growth, and metabolic processes. This selective modulation of the endocrine system is thought to be an adaptive response to prioritize immediate survival over long-term functions during acute stress.

**Question: 1011**

Which of the following is the most significant risk factor for the development of diabetic neuropathy?

- A. Poor glycemic control
- B. Hypertension
- C. Dyslipidemia
- D. Obesity

Answer: A

Explanation: Poor glycemic control is the most significant risk factor for the development of diabetic neuropathy. Sustained hyperglycemia is the primary driver of the pathological changes in the nerves that result in this complication of diabetes. While other factors, such as hypertension, dyslipidemia, and obesity, can contribute to the risk, maintaining optimal blood glucose levels is the most crucial intervention for preventing and managing diabetic neuropathy.

**Question: 1012**

Which of the following is NOT a key principle of the Transtheoretical (Stages of Change) Model?

- A. Precontemplation
- B. Maintenance
- C. Acquisition
- D. Preparation

Answer: C

Explanation: The Transtheoretical (Stages of Change) Model outlines the six key stages individuals go through when making a behavior change: Precontemplation, Contemplation, Preparation, Action, Maintenance, and Termination. The "Acquisition" stage is not one of the recognized stages in this model.

**Question: 1013**

A health coach wants to better understand how cultural identity influences health behaviors and outcomes within the Hispanic/Latino community. Which of the following would be the MOST credible source of information?



- A. Online articles from Hispanic/Latino advocacy organizations
- B. Peer-reviewed studies published in Hispanic/Latino-focused journals
- C. Personal narratives shared in Hispanic/Latino community support groups
- D. Policy briefs from government agencies' Hispanic/Latino advisory councils

Answer: A, B, D

Explanation: Hispanic/Latino advocacy organizations, peer-reviewed academic journals, and government advisory councils all represent credible sources for information on the complex relationship between cultural identity, health behaviors, and health outcomes within the Hispanic/Latino community. These sources leverage expertise, research rigor, and direct community engagement to provide reliable and comprehensive insights. Personal narratives from support groups, while valuable, should be considered supplementary to these more systematic and authoritative sources.

### **Question: 1014**

A client discloses that they are experiencing financial difficulties that are impacting their ability to implement their health plan. How should the health coach respond?

- A. Explain that the client's financial concerns are outside the coach's area of expertise
- B. Provide referrals to community resources that may be able to offer financial assistance
- C. Suggest the client reduce the scope of their health goals to save money
- D. Acknowledge the client's challenges and collaborate on creative, low-cost solutions

Answer: D

Explanation: The most effective approach is for the coach to validate the

client's concerns, express empathy, and then collaborate with the client to identify creative, low-cost strategies for implementing their health plan. This demonstrates a client-centered approach that goes beyond simply deferring to external resources.

### **Question: 1015**

A client who has been working with a health coach for several months discloses that they have been experiencing frequent thoughts of death and have developed a specific plan to end their life. The client also reports that they have been engaging in self-harm behaviors, such as cutting, on a regular basis. What is the most appropriate response from the health coach?

- A. Encourage the client to speak with their primary care physician about the physical symptoms and refer them to a therapist for the mental health concerns.
- B. Recommend the client try a new coping strategy, such as journaling or talking with a trusted friend, to manage their suicidal thoughts.
- C. Suggest the client take a break from their current health and wellness program and focus on self-care activities to improve their mood.
- D. Immediately contact emergency services or a local crisis hotline and facilitate a referral to a mental health professional for an urgent psychiatric evaluation.

Answer: D

### **Explanation:**

The client's disclosure of persistent thoughts of death, a specific suicide plan, and ongoing self-harm behaviors are extremely serious "red flags" that require an immediate, urgent response. These symptoms indicate that the client is in a state of mental health crisis and may be at imminent risk of suicide. As a health coach, the appropriate action is to contact emergency services or a local crisis hotline and facilitate a direct referral to a qualified mental health professional, such as a therapist or crisis counselor, for a comprehensive psychiatric

evaluation and appropriate treatment. Providing recommendations for coping strategies, self-care, or referrals to a primary care physician may be helpful, but should not replace the need for immediate, professional mental health intervention. The client's safety and well-being should be the top priority, and the health coach should not attempt to manage this level of mental health crisis on their own.

**Question: 1016**

Which of the following is NOT a key component of the "Health Coaching Snapshot" in the ACE Health Coach Manual?

- A. Biopsychosocial Assessment
- B. Values and Priorities
- C. SMART Goals
- D. Nutrition and Meal Planning

Answer: D

Explanation: The "Health Coaching Snapshot" outlined in the ACE Health Coach Manual includes the following key components: Biopsychosocial Assessment, Values and Priorities, SMART Goals, and Action Planning. Nutrition and meal planning is not explicitly listed as a standalone component of this framework, as it would typically be addressed within the broader biopsychosocial assessment and goal-setting process.

**Question: 1017**

Which of the following best describes the concept of "decisional balance" in the transtheoretical model?

- A. The individual's confidence in their ability to change their behavior
- B. The cognitive and emotional processes used to progress through the stages

of change

C. The weighing of the pros and cons of changing a particular behavior

D. The social support and environmental factors that influence behavior change

Answer: C

Explanation: The concept of "decisional balance" in the transtheoretical model refers to the individual's weighing of the perceived pros (benefits) and cons (barriers) of changing a particular behavior. The model suggests that as individuals move through the stages of change, their decisional balance shifts, with the pros becoming more salient and the cons decreasing in importance.

**Question: 1018**

What is the primary role of the antioxidant nutrient lycopene in the body?

A. Reducing the risk of cancer

B. Improving heart health

C. Protecting the skin from UV damage

D. All of the above

Answer: D

Explanation: Lycopene is a powerful carotenoid antioxidant found primarily in tomatoes and other red/pink produce. It has been shown to have anti-cancer properties, cardiovascular benefits, and the ability to protect the skin from sun-induced oxidative stress and damage.

**Question: 1019**

A client shares that they have been struggling with disordered eating behaviors. How can a health coach best respond with cognitive empathy to build trust and rapport?

- A. "I can see why that would be so challenging for you. Disordered eating is a complex issue, and I'm sure it hasn't been easy to manage."
- B. "I'm really sorry you're going through that. Eating disorders can be incredibly difficult, both physically and emotionally."
- C. "Don't worry, we'll work together to develop a healthy, sustainable eating plan that you feel good about. I'm here to support you through this."
- D. All of the above

Answer: A

Explanation: Response A demonstrates the highest level of cognitive empathy by explicitly acknowledging the complexity and difficulty of the client's situation. This shows that the coach has a nuanced understanding of the nature of disordered eating and the emotional and psychological factors involved. Responses B and C, while compassionate, do not exhibit the same depth of cognitive empathy. An empathetic health coach would likely start with a response like A to build trust and rapport, then transition to offering emotional support and practical strategies (as in responses B and C) as the therapeutic relationship progresses.

**Question: 1020**

Which of the following is not one of the five key skills health coaches should develop according to the ACE Integrated Coaching Model?

- A. Active listening
- B. Powerful questioning
- C. Direct communication
- D. Maintaining confidentiality

Answer: D

Explanation: The five key skills for health coaches according to the ACE Integrated Coaching Model are: 1) Active listening, 2) Powerful questioning, 3) Direct communication, 4) Creating awareness, and 5) Designing actions.

Maintaining confidentiality, while an important ethical consideration, is not explicitly listed as one of the key skills for health coaches in this model.

**Question: 1021**

What is the primary mechanism by which the antioxidant nutrient alpha-lipoic acid exerts its protective effects in the body?

- A. Glucose metabolism
- B. Nerve protection
- C. Detoxification
- D. All of the above

Answer: D

Explanation: Alpha-lipoic acid is a unique antioxidant nutrient that demonstrates a diverse range of protective mechanisms in the human body. Firstly, alpha-lipoic acid plays a crucial role in glucose metabolism, as it is a cofactor for key enzymes involved in the breakdown and utilization of carbohydrates. Secondly, alpha-lipoic acid has been shown to have neuroprotective effects, helping to alleviate symptoms of diabetic neuropathy and other nerve-related conditions. Thirdly, alpha-lipoic acid enhances the body's natural detoxification processes by increasing the production of glutathione, a master antioxidant and detoxifying agent. Due to this multifaceted mechanism of action, alpha-lipoic acid can be considered a "universal" antioxidant nutrient with benefits spanning metabolic, neurological, and detoxification pathways.



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