

2026 年度

薬学研究科
博士前期課程
(薬科学専攻・医療栄養学専攻)
一般入学試験(一次)

1 問選択して回答してください

※解答用紙の採点対象科目欄にチェックをつけてください

外国語

受験番号	
氏 名	

評 点	
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[試験科目] 英語 1

下記の英文を和訳しなさい。

Food and certain food components can have a significant impact on human health. Products which can supply high amounts of antioxidants are beverages such as coffee, tea, cocoa, wine, and beer. Coffee is one of the most popular beverages worldwide.

Moderate coffee consumption is associated with a significant reduction in the risk of certain chronic diseases developing. For this reason, in recent years, increased attention has been directed to the study of coffee's beneficial effects on human health. Since coffee contains significant amounts of antioxidants and other active components, researchers have indicated the potential beneficial health effects of coffee.

Coffee roasting is a complex heat transfer process, and this step is probably the most important stage in coffee processing. The beans undergo a series of reactions during roasting, leading to the desired changes in physical properties and chemical composition. The concentration of highly active phenolic compounds in green coffee depends on the coffee variety and origin, while their level in coffee as a beverage depends on the roasting degree and method of beverage preparation. Phenolic components are partially decomposed during the roasting process, and the extent of degradation depends on the roasting conditions.

出典(改変) : Acta Sci. Pol. Technol. Aliment. 15(4)2016, 409-417.: EFFECT OF ROASTING DEGREE ON THE ANTIOXIDANT ACTIVITY OF DIFFERENT ARABICA COFFEE QUALITY CLASSES

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[試験科目] 英語 2

次の英文を読んで後の問いに答えなさい。

Every year 727,000 people take their own life and there are many more people who make suicide attempts. Every suicide is a tragedy that affects families, communities and entire countries and has long-lasting effects on the people left behind. Suicide occurs throughout the lifespan and was the third leading cause of death among 15–29-year-olds globally in 2021.

(あ)Suicide is a serious public health problem that requires a public health response. With timely, evidence-based and often low-cost interventions, suicides can be prevented. For national responses to be effective, a comprehensive multisectoral suicide prevention strategy is needed.

Suicide prevention efforts require coordination and collaboration among multiple sectors of society, including the health sector and other sectors such as education, labor, agriculture, business, justice, law, defense, politics and the media. These efforts must be comprehensive and integrated given the multifaceted nature of suicide.

語彙註) take their own life: 自ら命を絶つ、make suicide attempt: 自殺未遂をする、tragedy: 悲劇、entire: 全体に、long-lasting: 長期的な、people left behind: 残された人々、throughout the lifespan: 生涯を通じて、leading cause of death: 主要な死因、public health problem: 公衆衛生問題、require: 必要とする、low-cost intervention: 低コストの介入、prevent: 予防する、national responses: 国家レベルの対応、effective: 効果的な、comprehensive: 包括的な、multisectoral suicide prevention strategy: 多くの部門による自殺予防戦略、effort: 取り組み、coordination and collaboration: 調整と連携、justice: 司法、defense: 防衛、integrated: 統合的な、multifaceted nature: 多面的な性質

Source: WHO (2025) 'Suicide: Fact Sheets' <https://www.who.int/news-room/fact-sheets/detail/suicide>. 一部改編。

問1 下線部(あ)を日本語に訳しなさい。

問2 公衆衛生上の深刻な問題として注目されている自殺を予防するために、どのような取り組みが求められていますか。本文を参考に、日本語で答えなさい。

受験番号	
氏名	

評点	
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[試験科目] 英語 3

次のがん患者の栄養状態とエネルギー代謝に関する①～⑨の文章を和訳しなさい。

①It is well known that an insufficient diet leads to chronic malnutrition. ②To maintain a stable nutritional state, the diet has to meet the patient's energy requirements. ③These requirements are the sum of the resting energy expenditure (REE), physical activity, and, to a small extent, diet-induced thermogenesis. ④In cancer patients, REE determined by indirect calorimetry, the gold standard, has been reported to be unchanged, increased, or decreased in relation to non-tumor bearing controls. ⑤In a large study from the group at Lundholm, approximately 50% of all cancer patients who were losing weight were hypermetabolic when compared to appropriate controls allowing for similarity in physical activity, body composition, age, and weight loss. ⑥Similarly, in newly diagnosed cancer patients 47% were hypermetabolic and displayed a higher ratio of measured versus predicted REE per kg of fat-free mass. ⑦While REE is increased in many cancer patients, when total energy expenditure (TEE) is considered, this value appears to be lower in patients with advanced cancer when compared to predicted values for healthy individuals the main cause appears to be a reduction in daily physical activity. ⑧In conclusion, it appears sensible to initiate nutrition therapy assuming TEE to be similar to healthy controls. ⑨TEE may be estimated from standard formulas for REE and standard values for physical activity level.

(出典) ESPEN practical guideline: Clinical Nutrition in cancer, Clinical Nutrition, 40 (5), 2898-2913, 2021 より

(注釈) insufficient: 不十分な、chronic: 慢性の、malnutrition: 栄養失調、maintain: 維持する、stable: 安定した、requirements: 要求、sum: 合計、resting energy expenditure (REE): 安静時エネルギー消費量、physical activity: 身体活動、extent: 程度、diet-induced thermogenesis: 食事誘発性熱産生、determined: 測定された、indirect calorimetry: 間接熱量測定法、in relation to: ～に関連して、non-tumor bearing controls: 腫瘍を持たない対照群、the group at Lundholm: ルンドホルムらのグループ、approximately: およそ、hypermetabolic: 代謝亢進の、appropriate: 適切な、allowing for: ～を考慮して、body composition: 体組成、diagnosed: 診断された、ratio: 比率、predicted: 予測された、fat-free mass: 除脂肪体重、total energy expenditure (TEE): 総エネルギー消費量、advanced cancer: 進行がん、predicted values: 予測値、individuals: 個人、reduction: 減少、in conclusion: 結論として、sensible: 賢明な、initiate: 開始する、nutrition therapy: 栄養療法、assuming: ～と仮定して、estimated: 見積もられる、formulas: 式

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