

ОБМЕН УГЛЕВОДОВ

Аэробное и анаэробное окисление глюкозы. Пентозофосфатный цикл.

Цель занятия. Изучить роль промежуточных и конечных продуктов аэробного и анаэробного путей распада глюкозы, а также пентозофосфатного цикла в обмене веществ; знать значение каждого из этапов распада глюкозы в организме.

План подготовки к занятию

Аэробное окисление глюкозы до CO_2 и H_2O

Анаэробный гликолиз

Пентозо-фосфатный путь окисления глюкозы

Клинико-диагностическое значение определения активности глюкозо-фосфатдегидрогеназы

Для подготовки к занятию необходимо:

Изучить тему, используя конспекты лекций, наглядный материал, теоретическое обоснование темы.

Ответить письменно на вопросы внеаудиторной работы (см. ниже). Ответы следует писать в тетради для практических занятий.

Ответить на тесты на портале.

Вопросы внеаудиторной работы:

Нарисуйте схемы аэробного и анаэробного гликолиза. Сколько молекул АТФ образуется в аэробных и анаэробных условиях? Объясните, почему в аэробных условиях образуется больше АТФ.

В каких тканях и при каких условиях активен анаэробный гликолиз?

Нарисуйте формулами центральную (6 ю) реакцию гликолиза. Опишите механизмы, с помощью которых электроны и протоны от НАДН поступают из цитозоля в митохондриальную ЦПЭ.

Ситуационная задача. Многие лекарственные препараты (сульфаниламиды, противомалярийные средства, нитрофурановые, противотуберкулезные, противоопухолевые препараты и др.) способствуют развитию окислительного стресса в клетках. Окислительный стресс в эритроцитах сопровождается усиленным гемолизом эритроцитов, особенно у пациентов с генетическим дефектом фермента пентозо-фосфатного цикла глюкозо-фосфатдегидрогеназы (Г6Ф ДГ). Фермент Г6Ф ДГ является НАДФ-зависимым, поэтому при окислении глюкозо-фосфата образуется восстановленный НАДФН, необходимый для защиты эритроцитов от окислительного повреждения активными формами кислорода. В областях с высоким уровнем распространения малярии (Африка, Ближний Восток, Юго-Восточная Азия и др.) частота встречаемости генетического дефекта фермента глюкозо-фосфатдегидрогеназы достигает 25%. При данной энзимопатии частично снижается

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Judd E. Hollander



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