

РОЗВИТОК ПАРОДОНТАЛЬНОГО СИНДРОМУ В ЩУРІВ ЗА УМОВ ПОЄДНАНОГО ВПЛИВУ ОЖИРІННЯ І СТРЕСУ

Вступ. Неінфекційні захворювання («хвороби цивілізації») спричиняють більше 71 % усіх смертей у світі. Понад 1,9 мільярда дорослих мають надлишкову масу тіла, з них 650 мільйонів страждають від ожиріння. Одним із найважливіших факторів є те, що ожиріння викликає стрес, а стрес — ожиріння, так звана порочне коло. З огляду на сучасні літературні дані, механізми виникнення уражень органів порочними умовами ожиріння і загального адаптаційного синдрому досліджено недостатньо, що потребує детального вивчення механізмів їх розвитку для правильної тактики превенції та лікування.

Мета дослідження — з'ясувати біохімічні механізми розвитку пародонтального синдрому у тварин за умов виникнення ізолюваного та поєднаного впливу ожиріння, індукованого неонатальним введенням глютамату натрію, і хронічного стресу.

Методи дослідження. Експериментальні дослідження виконано на 51 білому щурі обох статей, яким моделювали глютамаміндуковане ожиріння шляхом неонатального підшкірного введення новонародженим щурят глютамату натрію та хронічний стрес за Г. Сельє шляхом іммобілізації тварин на спині протягом 5 год упродовж останнього тижня перед забом, який проводили через 2 год після іммобілізаційного стресу під тіопенталовим наркозом шляхом кровозгуснення. Протягом 4 місяців тварини перебували на звичайному раціоні виварю. Впродовж усього експерименту проводили моніторинг маси тіла, індексу маси тіла та індексу ЛБ. Об'єктами дослідження були м'які тканини пародонта щурів, у гомогенаті яких визначали загальну протейолітичну активність, загальну антитриптичну активність, каталазну активність, вміст ТБК-реактивних, окисномодифікованих протейнів, вільної фукози та глікозаміногліканів.

Результати й обговорення. Встановлено вірогідне зростання вмісту вільної фукози та глікозаміногліканів у тканинах пародонта щурів з поєднаним ожирінням і хронічним стресом порівняно з контрольними тваринами та щурами, яким моделювали ізолюваний вплив. Розвиток карбонільно-оксидативного стресу був максимально вираженим у тканинах пародонта тварин за умов моделювання стрес-синдрому на тлі ожиріння порівняно зі щурами з ізолюваним ожирінням і хронічним стресом.

Висновки. Поєднання для ожиріння та хронічного стресу сприяє більш вираженій деструкції опорних тканин зуба, про що свідчить вірогідне зростання вмісту вільної фукози і глікозаміногліканів у тканинах пародонта тварин цієї групи порівняно з контролем та ізолюваними впливами. Карбонільно-оксидативний стрес та пероксидне окиснення ліпідів максимально виражені у тканинах пародонта щурів, яким моделювали хронічний стрес на тлі ожиріння, порівняно з ізолюваними впливами.

КЛЮЧОВІ СЛОВА: ожиріння; стрес; тканини пародонта; оксидативний стрес; фукоза; глікозаміноглікани; протеази.

ВСТУП. Неінфекційні захворювання («хвороби цивілізації») спричиняють більше 71 % усіх смертей у світі. Понад 1,9 мільярда дорослих мають надлишкову масу тіла, з них 650 мільйонів страждають від ожиріння, зокрема, в 39 % чоловіків і 40 % жінок надлишкова маса тіла. За даними моніторингу, в 195 країнах світу в період з 1990 до 2019 р. кількість випадків ожиріння зросла на 13 % у жінок і на 27 % у чоловіків [1]. Вплив епігенетичних факторів, наприклад нездорового способу життя, може викликати збільшен-

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ня кількості неінфекційних захворювань, таких, як рак, цукровий діабет 2 типу, артеріальна гіпертензія, дисліпідемія та остеоартрит, а також інші хронічні або дегенеративні захворювання [2, 3]. Серед них ожиріння особливо поширене в глобальному масштабі, що призводить до епідемії у світі. Згідно з деякими оцінками, щорічний тягар захворювань, спричинений високим індексом маси тіла (ІМТ), можна кількісно оцінити як приблизно 216 000 смертей і 113,9 мільярда доларів США прямих витрат на охорону здоров'я лише в США [4, 5]. Результати як досліджень на тваринах, так і клінічних спостережень

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