Инеса Бенедиктовна Козловская

(02.06.1927 – 19.02.2020)

После тяжелой болезни ушла из жизни Инеса Бенедиктовна Козловская - руководитель отдела сенсомоторной физиологии и профилактики Института медико-биологических проблем, доктор медицинских наук, профессор, блестящий ученый, яркий незаурядный человек, учитель.

Инеса Бенедиктовна родилась 2 июня 1927 году в г. Харбин (Китай). В 1951 году окончила 1-й Московский медицинский институт по специальности "врачебное дело". После окончания аспирантуры на кафедре физиологии в 1954 году защитила кандидатскую диссертацию, там же, под руководством профессоров М.А. Усиевича и П.К. Анохина, начала педагогическую деятельность. В 1960 г. Инеса Бенедиктовна перешла работать в Институт высшей нервной деятельности.

В научной деятельности И.Б. Козловскую привлекла перспективная и быстро развивающаяся область физиологии - физиология движений. Изучение точностных инструментальных движений животных и роли соматической афферентации в их выработке и осуществлении позволило ей сформулировать ряд важных положений о механизмах афферентного контроля движений, являющихся аналогами произвольных движений человека.

Это направление исследований И.Б. Козловская продолжила и в зарубежной командировке (1966-1971) в рамках академического обмена в Рокфеллеровском университете в лаборатории профессора Н. Миллера. В этой лаборатории она выполнила интересную работу

по выработке двигательных инструментальных рефлексов у курарезированных животных, в которой была показана решающая роль обратной связи "по эффекту" в их подкреплении. Исследования, проведенные И.Б. Козловской в Нью-Йоркском медицинском колледже на приматах, были посвящены изучению роли зубчатых и промежуточных ядер мозжечка обезьян в организации точностных движений. Проведенные эксперименты привели Инесу Бенедиктовну к широким обобщениям, касающимся нейрофизиологических механизмов мозжечкового контроля произвольных движений. Исследуя у животных эффекты деафферентации различного уровня, объема и состава в системах управления выработанными движениями различной сложности, точности и организации, Инеса Бенедиктовна установила ряд закономерностей функционирования деафферентированных систем и двигательного регулирования, позволивших сформулировать новую концепцию афферентного контроля произвольных движений. Материалы этих работ составили основную часть ее докторской диссертации, защищенной в 1976 г., и монографии "Афферентный контроль произвольных движений" (1976).

По возвращении в Москву в 1971 г. И.Б. Козловская начала работать в Институте проблем передачи информации АН СССР. В 1976 г. в Институте физиологии им. И.П. Павлова РАН защитила докторскую диссертацию.

В 1977 году по приглашению академика О.Г. Газенко перешла в Институт медико-биологических проблем. И.Б. Козловской и ее сотрудниками выполнялась приоритетная программа исследований нейрофизиологических эффектов гипогравитации, включающая полетные эксперименты на приматах, составившие ядро научных программ экспериментов программы БИОН* на биоспутниках "Космос-1514, -1659, -1887, -2044, -2229", полетные, пред- и послеполетные обследования космонавтов, комплексные эксперименты с использованием различных моделей невесомости (иммерсия, гипокинезия и т.д.). Установленные в выполненных исследованиях закономерности изменений функций сенсорных и сенсомоторных систем в условиях меняющейся гравитационной среды легли в основу разработки новых средств и методов профилактики и коррекции неблагоприятных эффектов невесомости, применяемых с высокой эффективностью в длительных космических полетах.

И.Б. Козловская возглавляла программу международных нейрофизиологических исследований, выполняемую в полетах российских биоспутников и орбитальных станций "Салют-6", "Союз-7", "Мир" совместно со специалистами Кубы, Индии, Болгарии, Австрии, Франции, Германии, Канады, Японии и США. Под ее руководством был проведен цикл исследований особенностей управления движением в условиях микрогравитации, позволивших разработать информационное обеспечение качества визуальной стабилизации космических объектов в полетах.

Работы Инесы Бенедиктовны и руководимого ею в течение более 30 лет научного коллектива внесли важный вклад в изучение гравитационных механизмов в двигательной системе, обоснование и внедрение в практику пилотируемых космических полетов новых методов управления функциональным состоянием человека, обогатили теорию гравитационной физиологии и космической медицины, способствовали осуществлению приоритетных по длительности космических полетов в России. Разработанные подходы находят применение также в практике клинической, авиационной и спортивной медицины.

В научную школу И.Б. Козловской входят специалисты в области вестибулярной физиологии (Л.Н. Корнилова, А.М. Бадаква, С.А. Якушин), моторного контроля (А.В. Овсянников, Н.И. Бурлачкова, И.Н. Белоозерова, М.Г. Сирота), системной и клеточной физиологии скелетных мышц (Б.С. Шенкман и др.). Работы этих ученых получили широкое международное признание.

Инеса Бенедиктовна была членом редакционных советов журналов "Сенсорные системы", "Физиология человека", "Vestibular research", "Journal of Gravitational Physiology"; вице-президентом научной секции космической и подводной неврологии, Международной неврологической федерации. С 1996 г. она являлась соруководителем кафедры наук о жизни Международного Космического Университета.

И.Б. Козловская – лауреат ряда международных премий, в том числе премии имени Нело Пейса Международного общества гравитационной физиологии (2007 г.), премии в области наук о жизни Международной академии астронавтики (1995 г.), американской премии выдающимся исследователям биоастронавтики им. Л. Янга за важный вклад в исследования нейро-мышечного контроля и здоровья космонавтов (2011 г.) и Премии им. Дж. Саттона "За научные достижения, продвинувшие область космической медицины" (2019 г.).

**В рамках программы «Бион» проводились комплексные физиологические, морфологические, биохимические, генетические исследования на животных и растительных организмах в полетах биоспутников, специально разработанных для проведения биологических исследований. Полученные результаты позволили более глубоко понять закономерности структурно-функциональных реакций живых систем на условия космического полета.*

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Обзор

СТОЛБКОВ, ЮК; ТОМИЛОВСКАЯ, ЕС; КОЗЛОВСКАЯ, ИБ; ГЕРАСИМЕНКО, ЮП. ГАЛЬВАНИЧЕСКАЯ ВЕСТИБУЛЯРНАЯ СТИМУЛЯЦИЯ В ФИЗИОЛОГИЧЕСКИХ И КЛИНИЧЕСКИХ ИССЛЕДОВАНИЯХ ПОСЛЕДНИХ ЛЕТ, УСПЕХИ ФИЗИОЛОГИЧЕСИХ НАУК 45, 57 – 76 (2014)

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