## Современные проблемы инсулинотерапии

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о данным ВОЗ, в настоящее время сахарным днабетом (СД) страдают около 120 млн. человек, в 2025 г. их число превысит 250 млн. [1]. Примерно 10% из общего числа больных СД страдают днабетом 1 типа [3]. Днабет 2 типа, как известно, связан с нарушением реакции тканей на инсулин. При диабете 2 типа 30-40% больных становятся инсулиновотребными, т.е. используют инъекции инсулина или комбинацию его с перосии в 1997 г. зарегистрировано примерно 2100 тыс. больных диабетом, из них 252 410 днабетом 1 типа, 14367 детей и 6494 подростка. Эти данные основаны на частоте обращаемости, фактически эти данные могут превышать зарегистрированные в 3-4 раза.

Препараты инсулина различаются по источнику получения степени очистки, вещестнам, добавляемым к раствору инсулина (удлиняющим действие инсулина, бактериостатикам, адыовантам), концентрации, величине рН, особенностям химического состава (веществам, влияющим на возможностьсмещивания инсулинов короткого действия с инсуляном продленного действия).

Современные препараты инсулина разделяют на группы в зависимости от происхождения (жиновные и человеческие) и даименьности действия. Инсулины от животных - свимые, говяжим и сметамиме (свимой+говяжий). На протяжении 60 лет для лечения СД применяли говяжий и свиной инсулины, которые по составу отличаются от человеческого (на 3 и 1 аминомислоту соответствению). Иммунютенность инсулинов следующая: бычьи>свиные>человеческие.

Человеческие инсулины (ЧИ) являются наименее иммуногенными и наиболее эффективными [5]. Терапия инсулином животного происхождения вызывает образование высоких титров антител (IgG) и часто приводит к развитию иммунологической формы инсулинрезистентности и липодистрофическим изменениям подкожно-жировой клетчатки [6]. Применениям подкожно-жировой клетчатки [6]. Применениям измольного происхождения. У пациентов, переводящихся с терапии монокомпонентыми свиными инсулинами на полусинтетические человеческие, также было отмечено прогрессирующее симжение уровня IgE. Смена

смещанного бычьего-свиного инсудина на ЧИ вызывала исчезновение анафилактической реакции. наблюдавшейся у пациента [7-9]; терапия ЧИ не вызывала никаких системных или местных аллергических реакций. Уровень IgE у пациентов, получающих ЧИ, был значительно ниже по сравнению с больными, находящимися на терапии немонокомпонентыми препаратами инсулина [10]. По данным Falholt и лр. [11], связывание специфических IgE у пациентов с аллергическими реакциями на инсулинотеранию было наиболее выражено при использовании бычьих инсулинов и наименьшим - при применении ЧИ. По данным Вгипі и др. 1121, адпергические реакции на инсулины у 8 пашнентов с ИНСД, получавших временную терапию препаратами свиного и смещанного монокомпонентного инсулина, исчекти после перевода на ЧИ в 5 случаях и значительно снизились у 3 больных. Таким образом, ЧИ ивлиются препаратами выбора при инсулинотерапии у больных с алпертическими реакциями. Аллергические реакции на ЧИ встречаются менее чем у 1% больных [13]. Нелостатки бычьего инсулина в иммунологическом плане столь очевидны, что в настоящее время эти препараты запрещается использовать для лечения больных СЛ; аналогичные рекомендации касаются и смещанных инсулинов 1141.

Потребность в инсулине у больных СД 1 типа, получающих ЧИ, довольно стабильна, в то время как доза свиного моножомпонентного инсулина за тот же период применения увеличивается примерно вдвос [31]. Терапия свиным инсулином нарушает соотношение Т-хелперов и Т-супрессоров. При доказаниом снижении иммунюрегуляторного индекса при терапии свиным инсулином перевод на ЧИ нормализует иммунный ответ [31].

В патогенезе осложнений СД иммунные нарушения играют велушую роль. ЧИ является и наиболее эффективным средством профилактики поздних сосудистых осложнений [31].

Эффективность ЧИ отражает рост производства и его продажи в мировом масштабе. Данные Информационной медицинской статистики (IMS) показывают, что главный путь развития современного инсулинового рынка - это рост продаж ЧИ и уведичение продаж смещанных форм ЧИ (см. таблицу) [15].

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**Yijin Wang** 

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