

Современные проблемы инсулинотерапии

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По данным ВОЗ, в настоящее время сахарным диабетом (СД) страдают около 120 млн. человек, в 2025 г. их число превысит 250 млн. [1]. Примерно 10% из общего числа больных СД страдают диабетом 1 типа [3]. Диабет 2 типа, как известно, связан с нарушением реакции тканей на инсулин. При диабете 2 типа 30–40% больных становятся инсулинозависимыми, т.е. используют инъекции инсулина или комбинацию его с пероральными сахароснижающими препаратами. В России в 1997 г. зарегистрировано примерно 2100 тыс. больных диабетом, из них 252 410 диабетом 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, веществам, добавляемым к раствору инсулина (удлиняющим действие инсулина, бактериостатикам, адъювантам), концентрации, величине pH, особенностям химического состава (веществам, влияющим на возможность смешивания инсулинов короткого действия с инсулином пролонгированного действия).

Современные препараты инсулина разделяют на группы в зависимости от происхождения (*животные и человеческие*) и длительности действия. Инсулины от животных - *свиные, говяжьи и смешанные (свиной+говяжий)*. На протяжении 60 лет для лечения СД применяли говяжий и свиной инсулины, которые по составу отличаются от человеческого (на 3 и 1 аминокислоту соответственно). Иммуногенность инсулинов следующая: бычий>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]. Применение ЧИ позволило исключить все осложнения, наблюдавшиеся при терапии инсулинами животного происхождения. У пациентов, переводившихся с терапии монокомпонентными свиными инсулинами на полусинтетические человеческие, также было отмечено прогрессирующее снижение уровня IgE. Смена

смешанного бычьего-свиного инсулина на ЧИ вызвала исчезновение анафилактической реакции, наблюдавшейся у пациента [7–9]; терапия ЧИ не вызвала никаких системных или местных аллергических реакций. Уровень IgE у пациентов, получающих ЧИ, был значительно ниже по сравнению с больными, находившимися на терапии монокомпонентными препаратами инсулина [10]. По данным Fallois и др. [11], связывание специфических IgE у пациентов с аллергическими реакциями на инсулинотерапию было наиболее выражено при использовании бычьих инсулинов и наименьшим - при применении ЧИ. По данным Wippl и др. [12], аллергические реакции на инсулины у 8 пациентов с ИНСД, получавших временную терапию препаратами свиного и смешанного монокомпонентного инсулина, исчезли после перевода на ЧИ в 5 случаях и значительно снизились у 3 больных. Таким образом, ЧИ являются препаратами выбора при инсулинотерапии у больных с аллергическими реакциями. Аллергические реакции на ЧИ встречаются менее чем у 1% больных [13]. Недостатки бычьего инсулина в иммунологическом плане столь очевидны, что в настоящее время эти препараты запрещается использовать для лечения больных СД; аналогичные рекомендации касаются и смешанных инсулинов [14].

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

В патогенезе осложнений СД иммунные нарушения играют ведущую 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 увеличение продаж смешанных форм ЧИ (см. таблицу) [15].

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web place the first set of popsicle sticks to the desired height make sure the edges of the sticks are all lined up once ready glue the sticks together using the paintbrush and mod podge dip the paintbrush into mod podge and then paint the mod podge onto the popsicle sticks to attach them together

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web oct 15 2017 what you do step 1 make 2 rows of eleven popsicle sticks next to each other tip to tip you now have fifteen pairs of sticks step 2 take one new stick and put glue on the full flat side step3 locate the glued stick on top of a pair of sticks the center of the glued stick should be where the 2 sticks meet glue side down

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web castle source hotel house source popsicle stick house with table and chairs source popsicle stick doll house source penguin shack source colorful house source popsicle stick tree house source house building source love bird house source homemade fort and castle source popsicle sticks are also known as craft sticks and they are fun to

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web jun 22 2020 supplies needed here is what you ll need to make a popsicle stick up house approx 250 standard popsicle sticks i used some jumbo sticks because i had a 200 pack of regular and ran out but you can use all the same size if you choose to fill in the sides of the house up to the roof which i didn t you may need more bamboo skewers

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web sep 20 2018 paper ribbon instructions lay sticks side by side leave gaps or use half sticks to make space for windows and doors on two opposing walls shown top and bottom join sticks by gluing support sticks across ends these provide a surface for gluing to adjacent walls glue center supports on remaining walls and where you will have

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web oct 31 2019 popsicle sticks paint brown blue and red a paintbrush a glue stick scissors step 1 gather your materials step 2 find the middle of your first popsicle stick and angle your scissors upwards from there in order to cut the stick in half diagonally creating two new shorter sticks with angled edges step 3

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web popsicle sticks house if you follow these easy fast precise instructions you will get yourself an easy popsicle stick house you can follow these steps just for fun to see if you can make a new skill or if you want to surprise a relative or friend with an awesome ha

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web glue the house together according to your plans blueprints when i created my house i used the paper to make the angle

and the roof this step is very important because if you glue the house together using too much glue or used too little glue your house may break or

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