

Новые технологии визуализации диабетических изменений сетчатки

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Важной составляющей ведения больных сахарным диабетом (СД) является скрининг диабетической ретинопатии (ДР), основными методами которого служат прямая офтальмоскопия и семипольное 35° стереофотографирование стандартных полей сетчатки [1].

Преимуществами прямой офтальмоскопии являются ее мобильность, портативность и относительно низкая стоимость оборудования. Однако даже в руках квалифицированных специалистов данный метод не обладает высокой чувствительностью, что в основном связано с отсутствием стереоскопического эффекта и небольшим полем обзора при проведении исследования, а также с субъективизмом интерпретации данных.

Главным преимуществом фотографических методов диагностики ДР является возможность получения объективных данных о состоянии глазного дна, которые можно не только хранить и использовать для последующего мониторинга, но и передавать заинтересованным специалистам. Многообразие методов фотографирования глазного дна определяется, главным образом, техническими характеристиками оборудования (съёмка с использованием различных углов обзора и фильтров).

Фоторегистрацию глазного дна рекомендуется проводить после медикаментозного расширения зрачков (даже при использовании немидратиической фундус-камеры), так как при съёмке без мидриаза серьезно страдает качество фотографий, особенно при нарушении прозрачности оптических сред.

В последние годы цифровые технологии постепенно вытесняют традиционное фотографирование. Цифровое оборудование позволяет мгновенно получать изображения глазного дна, которые можно сразу интерпретировать, передавать, в том числе и по телекоммуникационным системам.

Семипольное 35° стереофотографирование стандартных полей сетчатки обладает высокой информативностью и воспроизводимостью, но из-за трудоемкости методики ее использование в крупномасштабных скрининговых программах не является практичным. По этим причинам семипольное стереофотографирование глазного дна рекомендуют в качестве стандарта для оценки других методов скрининга или способа контроля состояния сетчатки в клинических исследованиях.

На сегодняшний день обросло множество фотографических методов скрининга ДР [2]. Противоречивость данных об их информативности затрудняет выбор наиболее эффективного из них.

Целью нашей работы было определение альтернативного высокоэффективного метода скрининга ДР с целью его дальнейшего внедрения.

В исследуемую группу вошли 200 больных СД 1 (400 глаз) с различными стадиями ДР. Мужчины составили 42,5% (85 человек), женщины – 57,5% (115 человек). Средний возраст больных – $33,5 \pm 11,0$ лет (минимальный возраст – 18, максимальный – 60 лет), средняя продолжительность заболевания СД – $15,4 \pm 9,2$ лет (минимальная продолжительность заболевания СД – 6 месяцев, максимальная – 44 года).



Рис. 1. Расположение полей при семипольном фотографировании сетчатки

Всем больным было выполнено фотографирование глазного дна на фундус-камере TRC-501EX фирмы «Topcon» (Япония) с использованием слайд-пленки AgfaVisione-100 фирмы «Agfa-Gevaert AG» (Германия) и в цифровом виде с применением системы анализа изображений IMAGEset 2000 (версия 2.54).

Выполнялись следующие варианты фотографирования сетчатки:

- стандартное семипольное 35° стереофотографирование сетчатки (референтный метод);
- семипольное 35° фотографирование (без стереоэффекта);
- четырехпольное 35° стереофотографирование;
- двухпольное 50° фотографирование (без стереоэффекта);
- цифровое двухпольное 50° фотографирование (без стереоэффекта).

Семипольное фотографирование стандартных 35° полей сетчатки выполнялось по методике ETD RS (1993) и подразумевало изготовление стереопар семи стандартных полей сетчатки для каждого глаза [3].

Вторая методика, фотографирование семи 35° полей сетчатки (без стереоэффекта), отличалась от вышеописанной тем, что при съёмке полей 3–7 делался один снимок (кадр), т.е. не получали стереопару.

При четырехпольном 35° стереофотографировании помимо выполнения стереопар трех полей, идентичных по расположе-

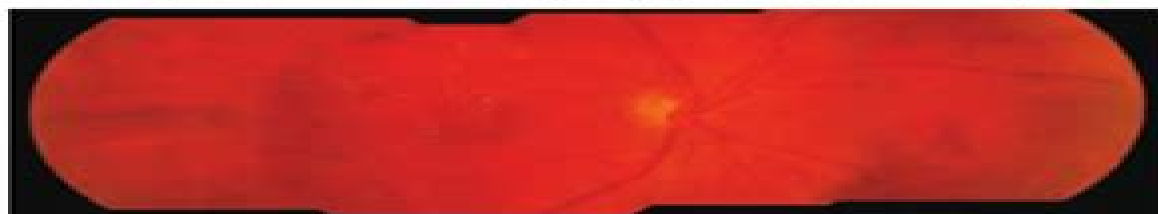


Рис. 2. Расположение полей при четырехпольном фотографировании сетчатки

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