BRITISH MEDICAL JOURNAL VOLUME 286 22 JANUARY 1983

# PRACTICE OBSERVED

# The GP and the Specialist

### Diabetes mellitus

P J WATKINS

Diabetes is very common—it affects about 600 000 people in Britain—and doctors in every specialty inevitably have some diabetic patients in their care. The clinical presentation and principles of diagnosis and management of diabetes are very well known, yet elementary omnisions are frequent, resulting at the very least in unnecessarily protracted symptoms on the one hand, to death from ketosacidous at the other externer. These

departments.

This article describes some of the common errors that occur in the diagnosis and treatment of diabetes, together with some comments on facilities that should now be available in diabetic clinics to offer the best standards of modern diabetic care.

Diabetes is often missed—why?

Thirst, polyuris, and weight low are classic symptoms of diabetes, yet the diagnosis is often missed. Of course, patients frequently do not present to their doctors with these very words, strength of the course of the cours

mouth rather than thirst, and even that seems insufficient sometimes to evoke the right response—test the urine.

Some patients present with weight loss only. In the absence of any very obvious cause these patients should always have a urine test; yet complex radiological examinations and other tests are often performed first. I have even seen two teenage girls sent to a psychiatrist for treatment of anorexia nervosa before their admission in between the sent of the properties of the propertie

### How urgently does the patient need treatment?

The discovery of glycouria usually means that the patient is diabetic, though the diagnosis must be established by measured blood glucose before treatment is started. How urgently must action be taken? Diabetic patients are now classified as insulin dependent diabetics (IDDs) or non-insulin dependent diabetics (NIDDs). IDDs need urgent diagnosis and treatment, while NIDbs usually do not. How are IDDs stentified?

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IDDs usually present with classic symptoms of diabetes, and thirst and weight loss are prominent. Their lips and tongue may be "tacky" and make speech difficult. They are often (but not always) thin. They complain sweerly of tiredness and weakness. Most children and young adults are IDDs, but very old people also develop acute and severe insulin dependent diabetes. The presence of ketonura is also helpful in drawing the distinction. IDD patients should be diagnosed and treatment started within IDD patients bound be diagnosed and treatment started within Complete and the start of the



Never atop insulin

Every medical student is taught that insulin, once started, should never be stopped. The body requires a basal concentration of insulin in normal metabolism is to continue and this insulin in needed even in the fairing state. If insulin is withdrawn hyperglycaemia and ketosaciosis are inevitable and can occur very rapidly over a few hours, especially when there is infection or other iliness.

Why then are so many patients instructed to reduce or even stop their insulin if they feel unwell, or when they start to vomit? About one fifth of all cases of ketosaciosis occur as a result of the continued at all times; during illness wore (not less) insulin in needed to avoid ketosacidosis. A simple written instruction including this advice should be given to all diabetics taking insulin (fig 2).

## Managing diabetes during illness

Patients must be instructed to continue to take their normal insulin dose. Carbohydrate is taken in fluid form if only fluids

can be tolerated. Regular urine or blood testing is needed, sometimes several times during the day. If tests remain unstatisfactory extra soluble insulin (approximately 8 units) is given at noon, and another extra dose repeated in the evening if necessary. If vomiting persists or deterioration progresses there is no alternative to immediate hospital admission.

KING'S COLLEGE HOSPITAL-DIABETIC DEPARTMENT

## ILLNESS AND INFECTION

During itiness or infection your blood sugar level may rise, causing you to feel dry, thirsty and pass too much urine. Urine tests may become sugary (2%) every time.

Test your urine twice a day or even more frequently.

If you continue to feel unwell, consult your Doctor.

The diabetic clinic what can it offer?

The diabetic clinic is a much criticised institution. Interminable waining for brief interviews by debilitated patients is the traditional picture. The modern diabetic clinic may still suffer some of these defects, but a good clinic takes a very positive approach to control and complications that cannot be offered in any other environment. Apart from routine measurement of weight, blood glucose concentration, sometimes haemoglobin Al, and a urine test, dietary advice and other proper educational facilities including instructions on blood glucose monitoring are needed. There should be proper services for the care of the eye and foot. Children, adolescents, and pregnant women are special. These services can be offered only in an environment devoted to the care of diabetic patients and staffed by doctors and nurses who are both interested and expert in their care. Such an environment can be established either in hospital or by a general practitioner. Failure to provide special facilities usually results in neglect of diabetic patients, as several studies have shown. Once a clinic has been established clinic staff need to keep in contact with each other—that is, the GP, liaison nurse, and hospital—and with new developments in management. Of course, some of the specialised aspects of diabetic care should probably only be managed in hospital—for example, care of pregnant diabetics.

No diabetic clinic, either in hospital or in general practice, should now be without a specially trained nurse. In recognition of this, the Joint Board of Clinical Nursing Studies now issues a certificate after attendance at appropriate courses. The expertise such nurses offer to individual patients is incalculable, and they provide the essential link between hospital and home.

A major part of diabetic care, wherever it is undertaken, is now devoted to attempts to prevent complications as far as possible. Good control of diabetes has become an important aspect of this attempt, but in some instances early detection of

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KING'S COLLEGE HOSPITAL - DIABETIC DEPARTMENT CARE OF YOUR FEET

wash daily with soap and water dry well, especially between toes, change socks/stockings daily, see that your shoes are not too tight, see a Chiropodist.

walk barefoot.
sit too close to a fire or radiator.
put your feet on hot water bottles.
neglect even slight injuries — see your Doctor.
attempt your own chiropody's—see your Chiropodist.

problems leads to their prevention, especially with regard to neuropathic lesions of the foot and early appearance of retunopathy. These observations form an important element of work in diabetic chinics.

Neuropathic foot ulceration—This is a common problem in long-term and older diabetic patients, and leads to sepsis, osteomyelitis, formation of abscess, digital gangrene, and amputations. With proper preventive care these complications can often be avoided. In this strength of the complications can often be avoided. The transfer of the complications can often be avoided and the complications of the complication of th

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acct of preventive care, and a shoe fitter now attends our diabetic foot clinic.

Retinipolity—Photocoagulation for diabetic retinopathy is represented by the control of the control

### Diary of Urban Marks: 1880-1949

Diary of Urban Marks: 1880-1849

I then decided to sit for the entrance scholarship in natural science as Nam's. This took place in Stypenher, and string with me was Bernard Spikbury, now pathologist to the Hone Office and a Braight. He obtained the string of the properties of the Hone Office and a Braight. He obtained the common the string to september and the string the string to september and the string the string to september and the string th

of it all fell away like magic, and ever afterwards I was able to throw pieces of dead meat or skulls about as well as any of my conferes. Horseplay of that kind was quite common.

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# The GP and the Medical Student

## Teaching students in an Aberdeen practice

F P HOWARTH

General practice is now used as a teaching forum for all discipilines in the primary health care team. A practice can expect to be asked to take students from many courses, including secretarial, reception, nursing (both district and treatment room), midwifery, health visiting, and social work. Historically, however, teaching medical students has been most common. This has taken on a new emphasis over the part decade with the confirmation of general practice as a es specially and its promotion to degree exceptional change in attitude by undergraduates towards general practice as a career, with many more now making it their first choice.

Three years ago we were asked to take final-year medical students from the medical school at Aberdeen University. During this year the students are allocated a four-week attachment to the university department of general practice. Their final two days; these are again spent in the department, cul-minating in a seminar on the final morning to which all the students and agencal practicioners are invited. The practice is asked to take a maximum of three students a year, for which an honorarium of £50 per student is paid by the university. Unfortunately, there are no facilities for readential accommodations of the property of the care of the control of the cont

(1) Caincial
(a) To widen the student's knowledge of the spectrum of illness
by showing him the clinical conditions—minor and major,
physical and emotional, acute and chronic—that make up
general practice.
(b) To demonstrate the common diagnostic and therapeutic
problems that occur in the early stages of illness, and to show
how the doctor-patient relationship often differs in general
practice from that in hospital.

(a) To show the student how the clinical, personal, and social aspects of disease interact with each other. The student will see for himself how families and their doctor cope with illness and terminal care, with the more intimate personal problems, and with the requirements of continuing care.

Dyce, Aberdeen
F P HOWARTH, MB, MRCGP, general practitioner

The student should know something about the opportunities, rewards, satisfactions, and difficulties of general practice today; how its organisation is likely to change in the next 10 years; and the probable future pattern of training for the specialty of general practice.

## Organising for students

Ours in a semirural practice with four principals working from a purpose-built health centre on the outskirts of Aberdeen. The health centre is rented from the Grampian Health Board and is shared with another group practice. We run a branch surgery three miles away and look after a toul list of 7600 patients. The practice employs there full-time and six part-time staff, including district and treatment-room mures, a district midwife, and health visitors. A physiotherapist and a dictitian provide one session a week at the health centre.

Because it was limited it became evident that the time the student spent in our practice needed to be structured if the objectives were to be met, and to this end a timetable was prepared (table). The student spent in our practice needed to be structured if the objectives were to be met, and to this end a timetable was prepared (table). The student spent is not practice down the student spent in our practice dways the student is mainly an observer. He spends his time with one doctor, sitting in at his surgeries and accompanying him on home visits. When appropriate he joins the doctor when on call. Three afternoons sessions also allow informal tutorials on the organisation and administration of general practice, including the financial and other aspects. It being self-employed. The student is offered a session also allow informal tutorials on the organisation and other aspects. The leng self-employed. The student is offered and the spects of the student to be with other members of the partners in their surgeries and on home visits. Time is also allocated to enable the student to be with other members of the primary health care team, including one entire day with the practice manager and reception staff. Three afternoon sessions are again available to allow informal tutorials and topic teaching—for example, management of patients with asthmatomically all to home. For example, management of patients with asthmatomically and home visits.

Week 4—In his final week the student rotates