PRACTICE OBSERVED

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angina
ECG: normal at rest
gross ST depression on effort
controlled on beta-blockers
pain on micturition
UT1, protein recurrence of UT1 6 months ago

recurrence of UTI
protein - micro: occasional RBC
Rx methenamine hippurate
lg bid
weight increase "about 7 lb"
not eating more
some dyspepsia
breathless on exertion
angina: no increase

Miss Mary Jane Dec 2 years ago Age 28 3 months ago Occupation: schoolteacher

As regards Mrs Pearce, the dryness of her mouth might be a side effect of amitriptyline—or it could be a manifestation of thirst due to diabetes. Her discomfort on micturition could be the result of vulvitis. But she is in fact a diabetic who has been undiagnosed for a

Mr G Hay Age 58 Occupation: Married

Diabetes is characterised by chronic hyperglycaemia due to either a deficiency or a diminished effectiveness of insulin. There is no cure. It affects the metabolism of carbohydrates, protein, fats, water, and electrolytes. The best broad classification (table) we have is: type I (often called juvenile-onset diabetes) usually develops under 40 and the patient is of normal or less than normal weight. Giving insulin is necessary for survival—hence this type is also called insulin-dependent diabetes mellitus. Type II may be a survival of the control of the co

Classification of diabetes mellitus

	Type I insulin dependent diabetes mellitus	Type II non-insulin dependent diabetes mellitus
ge of onset	Usually children and young adults	Middle-aged and elderly
ate of onset	Uzually weeks	Months or years
ymptoms	Present	Often absent
utritional state	Normal	Often obese
Veight loss	Considerable	Often absent or minima
Cetosis and coma	Common	Rarer
lesponse to insulin	Senutive	Relatively insensitive
lasma insulin	Absent or low	Usually normal
esponse to oral agents	None	Usually good
redominant vascular	Microangiopathy	Atheroscierosis

Note: Recognising the two types is important as regards the prognosis and type of treatment. Many patients may not be placed readily in either category at the time of initial disense.

It is important to identify to which clinical type a patient belongs tince each requires different treatment and has a different prognosis. At the time of initial diagnosis, however, some patients cannot be readily placed in either category— particularly if they are in the age group 9.04—and they need to be observed over a longer period. In many cases there is a first-degree family bistory of diabetes so it is worth asking questions about their relatives.

Diabeters may lead to a distressing list of complications. Some patients are first discovered when they present with complica-tions, such as relative to the programment of the programment of the complex programment of the programment

Diagnosing diabetes

Diabetes is usually gradual in onset. Even in the younger
patient it may take weeks to develop, and the older person may
have no symptoms for months or even years. The presenting
symptoms in children and young adults are: dry mouth or thirst
(because of the oplyuria caused by the omnotic diurretic effect of
the glucose and ketone bodies); secondary nocturnal enureis
(in children); and weakness and weight loss.

In the middle-aged the symptoms may be similar but intermittent and less inteness, or they may have unexplained weight
values and balantis are other presentations; candida spp
flourish on the skin and mucous membranes where secretions
contain abundant glucose. The diagnosis of diabetes must also be
considered when seeing middle-aged patients with a change in
their visual acuity, parsesthesiae, or aching calves and muscle
cramps.

considered when seeing middle-aged patients with a change in their visual acutivy, paraenthesia, or aching caives and muscle camps, and the control of the confirm the diagnosis, which is virtually certain if glucose and ketone bodies are persistently detected in the urine. Most general practitioners now use some form of diagnostic reagent such as Disatix to detect glycosuria and Ketostix for ketonuria. There are two main points to be wary of, Firstly, in the young a low renal threshold may give rise to glycosuria. The renal threshold rises with age, so in the older age group this is unlikely. Secondly, a problem with old people is that hyperglycaemia may occur without glycosuria, so that older persons should have their urine tested after a meal rather negative test for glycosuria should be confirmed by the appropriate blood glucose examination.

The next stage is to measure the plasma glucose concentration. You should not rely on just one result—ir may be wrong because of a laboratory error or some unrecognized cause of temporary hyperglycaemia. In the patient with appropriate symptoms a confirmed random plasma glucose concentration above 111 mm(1/200 mg/100 ml).

Beyond the Surgery

General practitioner and his music festival

The music festival has always been an important and enjoyable element in my life as a general practitioner in Aldeburgh. The surgery is marked on the tasteful map of useful places that can be found in the festival programme each year, and we like to feel that the service we provide will complement the other good things provided by the town in its role as host to the artists and vaistons who attend the festival.

The East Anglain spring is jong, grey wait for sun and visitons who attend the festival.

The East Anglain spring is jong, grey wait for sun and the state of the service was recovered and the service which is the time when welcome generosity of mood returns to our world. You can even lie on the grass without being frozen by the east wind. The broom and the wild lupins are at their best, and field poppies begin to splash the roadside with ref. Every festival has some great host days and star-filled nights that live in our memory long after we have forgotten the rather more numerous grey days. All in all, the festival is a good time to sweep away the winter and to start to live for summer. The festival organizers certainly feel in all, the festival is a good time to sweep away the winter and to start to live for summer. The festival organizers certainly feel to some wailing willie of a courtier—"There is no depression in this house and we are not interested in the possibility of defeat"—would stand as a good motto for those great hearts who created and maintained the festival. All the same I think the audiences must have been tougher in those great hearts who created and maintained the festival. All the same I think the audiences must have been tougher in those great hearts who created and maintained the festival. All the same I think the audiences must have been tougher in those great hearts who created and maintained the festival propriess Meare to listen to madrajasi played from punts on Thorpeness Meare to listen to madrajasi played from punts on Thorpeness Meare to listen to madrajasi played from pun

Aldeburgh, Suffolk IAN TAIT, MB, PRCGP, general practitioner

right that the artists and visitors should become part of the practice, which is, of course, exactly what they do. Indeed, so easily do they do this that one is sometimes false-footed. More started to the control of the course, exactly what they do. Indeed, so easily do they do this that one is sometimes false-footed. More yet not quite digesting the name on the temporary resident form, only to recognise rather later than one would have wished for one's comfort, that I was confronting an international celebrity whose identity had somehow been camouflaged by our everyday surgery routines and the quiet modesty of their manner.

Not all our rittitic visitors are so matted in style. I well elemenber of first incetting with a heavily-built singer who may be suffered to the started of the common started to the common started of the common started to th

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There was a quality about the Red House, and its life in those high days which was quite remarkable. It is a time that already seems to have developed those golden hues with which we guild our favouriet memories. Perhaps doctors have a special need to redress their memories in this way. The ultimate reason for our involvement is so often to be of some use when anxiety, pain, sickness, and death afflict our patients. Such a diet hardly pain, sickness, and death afflict our patients. Such a diet hardly Lean only any that in the case of the Red House they are so. In the early years my professional and personal relationship with the festival and its central figures was lighthearted enough. In later years serious illness and death cast a heavy shadow of instinacy and a fulfilment of one's role as a personal physician, which after all is the ultimate reason for most of us choosing to work in general practice, a festival is a time for happiness and high achievement—and whatever the fates may have brought the Aideburgh Festival has always come out on top, lifting our spirits and making our lives seem more significant and more colourful. Even before the music has begun we notice the change in the surgery. The surgery sessions are leavened with temporary residents who bring a welcome element of surprise and even youth. The festival is here and the summer lies ahead.

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e that the festival feels better for having its doctors:
that the doctors always feel better for having the

what that might be, there is someone there to help. Just being around in case of trouble sometimes takes more precise forms. I remember waiting on the edge of the golf course for the Queen Mother to arrive by helicopter, my presence having been required—"just in case." I recall wondering just what because the proper of the property of the property of the property of the property. The nerve centre of the festival is of course the Red House. The beautiful home of Benjamin Britten and Peter Pears. It can be a wildly busy place at festival time and everyone there is far too concerned with playing or listening to want to be bothered with being ill. Nevertheless, it is a rure festival that have many rich memories of hose festival visit, both professional and social, to what I once heard called the court of Benjamin Britten. Not all those memories, however, are so pleasurable, and I still blush to recall the day when I was called to visit a VIP from another country in Europe. He had fractured some ribs and the Elisatoplast which had been generously in those days I held the belief that the most comfortable way to remove that kind of dressing was with one decisive pull. I proceeded with confidence to apply my theory. The plaster certainly came away remarkably easily but, to my appalled eye, it seemed to me that a large part of the chet wall had also disappeared. After some agitated cleaning up things were ror equick pull idea from that day on.

Trainees' Corner: Managing Chronic Disease

Diabetes mellitus

I: Diagnosis and initial management

JOHN JARRETT, TOM STEWART, LEONARD ROGERS

This article is the first of three based on an audiovasual presentation made for occanional trainess by the MSD Foundation. Further information about the tape-indep programmes on which this sterns is based in available from the MSD Foundation, Tavistock House, Tavistock Square. London WCI.

These articles deal with diabetes mellitus, but the principles that we hope will emerge may be applied to most aspects of chronic disease and its management. Judging by work load surveys in general practice it appears that about a quarter of all con-

Department of Community Medicina, Guy's Hospital Medical School, London Bridge SEI 98T [ONIN JARRETT, Ja. Ap., smoot secure Sonaing Common, Berkshire Sonaing Common, Berkshire Sonaing Common, Berkshire MSD Promishion, Tevistock Rusus, Tavistock Squara, London WCI LEONARD NOGRIS, Jonethy deputy afterior

sultations are concerned with chronic disease, which is not usually life-threatening in the short term, but presents the general practitioner with problems that are not always adequately dealt with. There is enough evidence to show that in many cases good management can influence the incidence and the severity of complications. It is the intention of these articles to build on what you already know about diabetes to help provide the basis for good control of your diabetic patients. Diabetes is not a rare disease: diabetics are nearly 2%, of the population, and a general practitioner with a list of 2500 will have at least 30 known diabetics in his practice—and he will probably find another 20 if he looks for them. About 10 of his patients will need insulin.

The diagnosis of diabetes may easily be missed initially. Which of the following three patients, all of whom have common symptoms, do you think might have diabetes? What would make you test for glycosuria? We print the medical record as it might appear before you.

1860
If the findings are equivocal you should arrange for a glucose tolerance rest. If the result of this is only marginally abnormal it should be repeated after six to 12 months; although to make things easier for the patient and cheaper for the Health Service you might consider monitoring the fasting plasma glucose at similar intervals.

The blood glucose concentration may easily and quickly be measured in the surgery using a reflectance meter—Eye-tone, Reflomat, or the cheaper Hypocount or Glucochek. Their accuracy is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress when the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress when the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively and the surgery is sufficient to monitor effectively a patient's progress and the surgery is sufficient to monitor effectively and the surgery is sufficient to a surgery in the surgery in the surgery is sufficient to a surgery in the surgery

Having confirmed the diagnosis we must consider what to do next. Most patients can be managed well in general practice without recourse to the hospital, but there are some circum-stances when the patient should be referred for hospital assess-

stances when the patient should be reterred for hospital assess-ment. Case of Mary Jane Dee illustrates the point. She is 28 years old and first presented with lassitude and blurring of her vision. On questioning she was found to have lost weight and had been excessively thinsty. Her urine contained both glucose and ketone bodies, and a plasma glucose test confirmed the diagnosis. Should she be referred? We suggest that the general practitioner's decision to refer her to hospital should be influenced by the answers to these

BRITISH MEDICAL JOURNAL VOLUME 283 5 SEPTEMBER 1981 questions. Firstly, is the patient under 30? Secondly, is the patient physically ill? Thatdy, is appreciable tectoris present? Fourthly, is the patient pregnant? If the answer to any of these questions is "yes," we think that it is important to have the patient assessed at a hospital. If the patient is pregnant, the sooner the pregnancy is confirmed and the patient placed under hospital supervision for the best possible control by the obster-ricina and physical me better the outcome for mother and obay, reclaim and physical me better the outcome for mother and obay, the obster-ricina made to the presence of the outcome for mother and obay, on the state of the obster-ricina and physical me better the outcome for mother and obay the obster-ricina made to the obster-ricina made to the obster-ricina made to the obster-ricinal made and the difference to whether your patient co-operates or not. Providing information is one vital part of the interview. The obster-ricinal made to the obster-ricinal made to the obster-ricinal made to the obsterity of the obsterity

The patients referred to in this article are fictitious.

ONE HUNDRED VEARS AGO. An inquest was held on Turaday has, by Dr Diplock, on the body of Miss Angela Wilssorch, aged 33, matron at the Metropolitan and City Police Orphanage at Twickenham, of which we have obtained particulars of great toxicological interest. It appears that she had complained of a cold in the based in the presence of Dr. bestore who created that camphor has in the presence of Dr. bestore who created that camphor has one of the complained of a cold in the based in the presence of Dr. bestore who created that camphor has one of the complainer. From the evidence of a Miss Daines, who had slept in deceased's room as a guest, it appeared that, before going to bed, deceased took something in a rumbler and water. She also gave Miss Miss Daines fell very restless, and had a strange numbers in her hands and arms; and, finding the deceased in an even worse state, the spoke to her. Deceased said that she felt is at the west rewelling, and be strange more than the strange of the presence of the presen

science or skill could do was left undone in their endeavour to avert the fatal issue." It was understood that the unfortunate lady had taken three teaspoonful of Fleming's intenture of acounter, from a bottle which she had filled in the dispensary. She survived the fatal dose four hours. There was a marked improvement in the pulse after each inection of digitalis. We understand that Miss Daunes is still in a critical condition. (Brinish Medaled Journal, 1881.)

Clinical Curio: terbelence

Clinical Curlo: terbelence

The patient sat down with that anxious expression on his face that bodes ill for legnly for consultation. In his rich Irish brogue be bedes ill for legnly for consultation, in his rich Irish brogue be wife." The look of sympathy on the doctor's face encouraged him to go on. "She's not herself." The mind of the doctor began to think of housekeeping problems as redundancy Pay ran out. Perhaps it was going to be the change. "I have written down what's the matter," was made to the change of the pay of the pay

We will be pleased to consider for publication other interesting clinical observations made in general practice.—BD, BMJ.