





#### **GET MOVING**



Dr K D Modi

21st century living means that most of urban India spends 8 – 10 hrs a day, sitting behind a desk. This lack of physical activity has already been linked to the development of type 2 diabetes and cardiovascular disease, Indians also have a 'normal-weight metabicially obees' phenotype which means that despite being normal weight, we have larger waistlines. Other risk factors like smoking, alcohol, bad diets and reduced physical activity increases our risk of developing diabetes at a younger age. There are so many benefits of being more active. Our body becomes more sensitive to insulin, our muscles utilize more plucose during and after exercise, the good cholesterof (HDL) increases while the bad cholesterof (LDL) decreases, and blood pressure reduces.

reduces. So, include about 30 to 60 min of physical activity in your daily schedule (about 2.5 hrs a week). The most effective of all exercises is the simplest – a brisk walk. On an empty stomach, either in the morning or evening, just put on a good pair of sports shoes and go out for a walk. Start showly and gradually increase your work-out time. In fact, any aerobic activity will improve your cardior respiratory function. So, find a friend and piley badminton or tennis. But don't forget to stretch or warm-up before you begin. Even housework like sweeping, swabbing, dusting- all of these count towards making us more active. If you have to sit at your death of the stretch of the symbol of the sy

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# **YOUR DRUGS NEEDN'T SCARE YOU**



DR BIPIN SETHI

Managing diabetes is not just about controlling glucose attention

Managing diabetes is not just about controlling glucose attention needs to be paid to hypertension, lipids and when indicated the use of blood thinners, because these are of equal and in some situations greater importance. Lot of things have to be in kept in mind while prescribing drugs for controlling diabetes and increasingly one is concerned not just about their efficacy but also safety. There are two major types of diabetes Type 1 where the need for insulin is absolute and the insulin needs to be replaced with two or more injections of insulin per day and Type 2 where the insulin deficiency is of a lesser degree but there the insulin deficiency is of a lesser degree but there is an additional component of resistance to its action(insulin resistance). It is therefore possible to control the glucose by using oral agents which are initiated soon after the diagnosistypically with Metformin unless not tolerated/contraindicated) along with Ille style changes that include diet and Metformin unless not lolerated/contraindicated)
along with file style changes that include diet and
exercise. These act largely by addressing one or
both of these defects, and therefore depend for their
action on insulin which the body must produce and continue to act
till it does so. Unfortunately the insulin production progressively
declines making it necessary to increase the does, use additional
agents and finally insulin is needed which is then administered
along with some of the oral agents. Insulin should be viewed in this
context as a necessity and since modern insulin and devices permit
control with tilter or nimpact on the file of a person it should be
accepted when prescribe to avoid the complications due to uncontrolled sugars

There are many oral agents and their choice depends upon the
efficacy, cost, tendency to produce weight gain, hypoglyceusia, cancer and presence of other conditions which may need the modification in their does or contraindicate the use altogether/prognancy.

tion in their dose or contraindicate the use altogether(pregnancy, heart, kidney or liver disease)

Since weight gain, hypoglycemia and the need to take medica-tions frequently are the issues around the use of medications for diabetes control research has lead to the development of some drugs which avoid/minimize these (some drugs even produce ange minut avoid/minimize these (some drugs even produce weight loss) and can be administered less frequently without loss of efficacy. Additionally there is ongoing research on the safety of these on the heart.

Monitoring is a few and the safety of the

these on the heart.

Monitoring is a key component and permits to check the efficacy of the drugs and prevent, recognize and treat complications. Glucose measurements are useful for thrating the dose of drugs controlling it and this can even be done at home with glucometer, this not only helps the thration of the drugs but also permits to recognize and confirm hypodycemia (low sugar reaction). If one is on drugs that have the propersity to cause hypoglycemia one should check with the doctor if alternate drugs that do not have that side effect can be used and if not how this can be recognized minimized, or prevented. Also some people around the patient should know about the same as well.



### YOU ARE WHAT YOU EAT

DR.PRASUN DEB MD.DM.ENDO, CONSULTANT DIABETOLOGIST AND ENDOCRINOLOGIST, YASHODA HOSPITAL

Diabetes is the new epidemic in developing India. I see so many young people developing diabetes at a much earlier age compared to people in the west – a trend that's attributed to our genetics and our adopting a western taste for calorie-rich; ready-to-eat, processed food. But; what people don't realize is this: every extra inch on their waistline matters. So eating healthy is a must – whether or not you have diabetes.

diabetes. Plan it this way - in a day, 55 – 60% of the total calories must come from complex carbohydrates, 5-20% from proteins and about 20% from fat Portion size is equally important. Eat smaller meals at shorter intervals. A good idea is to keep your plate colourful – lots of orange, green, yellow, red; basically plenty of fresh fruits and vegetables. Grains (wheat ice), beans (schawli), lentilis (da) and fresh vegetables are excellent food choices since they are digested slowly and

cause a slower rise in blood sugar. Groundnut and rice bran oil are healthler options. Reduce starcity foods (like potato, yam, beetroof) and refined food made with malda or sugar, and bakery products. If you love sweets, try to avoid the ones that are deep fined or dripping in sugar syrup. Laddoos made with grail are a better alternative to those with milk and oil. Sugar-free mithat may have fewer calories but will other have a higher fat content. Share your desert with a loved one; it's fun and will compel you to eat less. If you have type 1 diabetes, keep an eye on your carbohydrate consumption and how much insulin you need to keep blood gilucose in check. If you have type 2 disease, then pay attention to the calories and carbohydrates you consume.

Avoid skipping any meals. In short, I have 3 simple rules: eat less, eat right and eat on

## **World Diabetes** Day



#### THE CHECK-LIST

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I think most doctors will tell you that 'Prevention is better than cure.' Regular check-ups will ensure that you notice any abnormality early on and take the necessary steps to treat it. There's an easy way to remember the basic tests you need to do, at least once every 6 months. We call it the "ABCs" of disbettes control. A is for At C (or HbA1c)—that's glycated hemoglobin. It's a gold standard test that reflects how well you've controlled your blood sugar levels over the past 2 – 3 months. Aim to keep that value below 75% which indicates good sogar control. I find that most patients are familiar with fasting plasma glucose (PFQ) and post meal/post prandial glucose (PFQ) levels which should be below 110 and 140 mg/dl respectively and are valuable indicators of current blood sugar levels. Patients with type 1 diabetes will often monitor and record their glucose levels before a meal. Next, B stands for

blood pressure which must be below 120/80. A higher value blood pressure which must be below 120/80. A nigner value would mean you're putting greater stress on your heart. C stands for cholesterol. A complete lipid profile test will measure your good cholesterol (HDL), bad cholesterol (LDL), triglycerides and total cholesterol. Keep those numbers above 45 mg/dl and below 100, 150 and 180 mg/dl respec-

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