- A Space Marketing Feature HealthCare

World Diabetes Awareness Day

orld Diabetes Day is a campaign that features a new theme chosen by the International Diabetes Federation (IDF) each year to address issues facing the global diabetes community. While the themed campaigns last the whole year, the day itself is celebrated on November 14th, to mark the birthday of Frederick Banting who, along with Charles Best, first conceived the idea which led to the discovery of insulin in 1922.

What is diabetes?

Diabetes is a chronic disease that occurs when the pancreas does not produce enough insulin, or when the body cannot effectively use the insulin it produces. Hyperglycaemia, or raised blood sugar, is a common effect of uncontrolled diabetes and over time leads to serious damage to many of the body's systems, especially the nerves and blood vessels.

There are two main types of diabetes:

Type 1 diabetes (T1B) usually develops in childhood and adolescence and patients require lifelong insulin injections for survival.

Type 2 diabetes (T2B) usually develops in adulthood and is related to obesity, lack of physical activity, and unhealthy diets. This is the more common type of diabetes (representing 90% of diabetic cases worldwide) and treatment may involve lifestyle changes and weight loss alone, or oral medications or even insulin injections.

Type 2 diabetes (T2D) Description

Formerly named non-insulin-dependent diabetes mellitus (NIDDM).

Characterized by hyperglycemia due to a defect in insulin secretion usually with a contribution from insulin resistance.

Patients usually do not require lifelong insulin but can control blood glucose with diet and exercise alone, or in combination with oral medications, or with the addition of insulin.

Usually (but not always) develops in adulthood (and is on the rise in children and adolescents).

Us related to obesity, decreased physical activity and unhealthy diets.

As in T1D, patients are at a higher risk of microvascular and macrovascular

complications.

Symptoms

patients may have no symptoms at all or minimal symptoms for years before being diagnosed.

may have increased urinary frequency (polyuria), thirst (polydipsia), hunger (polyphagia), and unexplained weight loss.

may also experience numbness in extremities, pain in feet (disesthesias), and

blurred vision. may have recurrent or sev-

ere infections. patients may present with

loss of consciousness or coma but this is less common than in T1D.

Diagnosis

Diagnosis is made by the presence of classic symptoms of hyperglycemia and an abnormal blood test.

A plasma glucose concentration >=7 mmol/L (or 126 mg/dL) or >=11.1mmol/L (or 200mg/dL) 2 hours after a 75g glucose drink.

In a patient without classic symptoms, diagnosis can also be made by two abnormal blood tests on separate days.

In most settings (although it may not be available in some resource-poor settings), another test called HbA1C is done to approximate metabolic control over previous 2-3 months and to guide treatment decisions. This test can also be used to diagnose type 2 diabetes.

Cardiovascular Disease and Diabetes

Why are people with diabetes at increased risk for CVD?

Diabetes is treatable, but even when glucose levels are under control it greatly increases the risk of heart disease and stroke. That's because people with diabetes, particularly type 2 diabetes, often have the following conditions that contribute to their risk for developing cardiovascular disease.

High blood pressure (hypertension)

High blood pressure has long been recognized as a major risk factor for cardiovascular disease. Studies report a positive association between hypertension and insulin resistance. When patients have both hypertension and diabetes, which is a common combination, their risk for cardiovascular disease doubles

foot match

Hammer Toe

Crack Feet

Athlets's Foot

Abnormal cholesterol and high triglycerides

Patients with diabetes often have unhealthy cholesterol levels including high LDL ("bad") cholesterol, low HDL ("good") cholesterol, and high triglycerides. This triad of poor lipid counts often occurs in patients with premature coronary heart disease.

Obesity: Obesity is a major risk factor and has been strongly associated with insulin resistance. Weight loss can improve cardiovascular risk, decrease insulin concentration and increase insulin sensitivi-

Lack of physical activity Exercising and losing weight can prevent or delay the onset of type 2 diabetes, reduce blood pressure and help reduce the risk for heart attack and stroke.

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3) TOE PAIN

FOOT DOCTOR CLINIC

Poorly controlled blood sugars or out of normal range

Diabetes can cause blood sugar to rise to dangerous levels. Medications may be needed to manage blood

Smoking: Smoking puts individuals, whether or not they have diabetes, at higher risk for heart disease and stroke. Learn how to kick the habit.

The ABC treatment goals in Diabetes

The ABC treatment goals for most people with diabetes

A HbA1C (blood glucose) less than 7 percent, B Blood Pressure less than 130/80 mmHg, C Cholesterol - LDL less than 100 mg/dl

What can people with diabetes do to lower their CVD risk?

Dry Skin

In Grown Toe Nail

Corn

Reach and stay at a

weight or obese is a risk factor for heart attack and stroke. Get at least 30 to 60 minutes of physical activity.

healthy weight. Being over-

Brisk walking or a similar activity most days of the week can help with weight loss and lower blood pressure.

Eat foods that are low in saturated fats, trans fats, cholesterol, salt (sodium), and added sugars - choose lean meats, poultry, fish, nuts (in small amounts), fatfree or lowfat milk, and milk products.

Eat more fiber - whole grains, fruits, vegetables, and dry peas and beans.

Stop smoking - or ask their health care team for help to quit. Smoking is one of the major risk factors associated with heart attack and stroke.

· Take medications as directed - and ask their doctor about taking daily aspirin.

· Ask family and friends to help them manage their diabetes. This support can help people reach their goals..

- Dr. Pawan Poddar Senior Interventional Cardiologist, Yashoda Hospitals, Malakpet



Dr. K Ravikirane M.D. M.Sc.(Psych), P.G. (Virology) London Gold Medal for Excellency in Medicine

Masters Homeopathy

The only treatment for **Hepatitis and Herpes**

Everyone is fearing about this virus in these days, advised him to visit after using medicines for one Doctors find this Hepatitis with their examinations month. Then after a month, he came very happy and when the pa tients come to visit the doctors for other his face is looking joyous without pain. And he said diseases. With that, they come to a decision that they that numbness in legs is cured. I advised him to are going to die. They think that the virus will not continue full course not to discontinue medicines. come out of the body due to which there are chances of After six months sciatica problem was solved. As liver damage for a long time. But truly there are usual he is attending work. I gave some precautionary medicines in home to control hepatitis. The patients measures not to go on bike and not to sit long time. will lead a happy and healthy life when they get homeo treatment without fear after the confir mation of Hepatitis. There are symp toms like hungriness, vomiting, body pains, yellowness in urine, jaundice, her pes on skin and also uneasiness in stom ach, pain This is a case from karimnagar Branch. He is about 30 in abdomen. However, it can be controlled totally after taking full time medicines by experienced

Women too will witness the same kind of boils on tails. vaginal parts with severe pain. If they ignore, it will lead to some more problems. Due to this, they will not After treatment: be happy during sex and the couple gets embarrassed. During some weather changes, we can see the treatments they will lead a happy and healthy life.

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it spread to the legs and feet. I am not able to move here and there and walk. I feel some electric cur rent is passing through my body. When I consulted one doctor, he said that it is sciatica and prescribed pain killers. I am getting relief when using pain killers and it will remain after some time. Now, I came to you for permanent solution." I told him not to worry about it and said that there is permanent remedy for sci atica.

After treatment

I gave him medicines after observing symptoms, psychological points. There

is best treatment with homeo medicines for sciatics problems. Back pain can be cured completely with homeo medi cines. By avoiding changes that vvill take place in back bone, there will be good re

sults by giving treatment to strengthen the muscles. I

You can survive even if you have HIV

years. He is trembling. When I asked about this problem, he said, «doctor, I belong to Jammikunta. Four years back, I had sex with a girl. I didn't expect that she has some disease. Since two months, I am suffering with fever, cough and loose motions. When I You will find some water pocks like sweat pocks on consulted doctor, he said that I have HIV. And llost penis. With this the people will neglect that they are weight. There is no hope of survival. Please let me normal pocks. Later the pocks will become boil. live." I said not to worry about life and took some de

Homeo treatment will show wonderful results for symptoms like cold, fever, TB In fection, loose herpes prob lems. The people will suffer a lot when motions in some persons infected by HIV. That means they take other medical treatments but with homeo if disease control system weakens, diseases can be infected. If you are strong HIV can not harm you Homeo treatment will focus on disease control system. When he was examined it was found that the A middle-aged man came once to my clinic and number of CD cells is 320. So, I said not to worry asked «doctor, please give good treatment for my about and said I would start treatment. I gave him back pain as I have been suffering for long time. I will prescription and asked him to come after one month pay the bill whatever it is. I will be in debted to you." I After one month I saw a lot of change in him. He said asked the man to tell the details will patience. Then he that he was so hungry, and free from tired ness. He told doctor, I am Narayana and native of Kurnool. I am said he has some hopes of life. I advised him to working in a private company. Since one year I have continue medicines for one more month. Later after been suffer ing with back pain which is gradually Examining second time, CD4 count is 710. Now he is leading a happy and normal life.

> Watch Doctors live programme in

V6 on every Tuesday @ 2.30 PM, Sakshi on every Saturday @ 2.30 PM and .10tv on every Sunday@ 4.30 PM.

Diabetes and its impact on your Fertility:

that more than 180 million people worldwide have diabetes. Amongst the population as a whole, around 1 in 7 couples experience difficulty conceiving within the first year. As diabetes can lead to additional problems that may affect fertility, the risk of infertility is therefore likely to be higher for couples in whom atleast one of the partner has Impact on male infertility

Diabetes causes male infertility in three ways: Causes erectile dysfunction-by affecting the health of small blood vessels and lowering testosterone levels resulting in lower sex

> •Reduces ejaculate volume-by affecting the small nerves that control ejaculation and by lowering testosterone levels.

> Retrograde ejaculation, where semen backs up into the bladder, making it impossible to get to the woman's reproductive organs.

> ·Also, when the researchers analyzed the sperms' DNA, they found more DNA damage in the diabetes patients' sperm with more deletions in the mitochondrial DNA of diabetic men's sperm cells than those of the non-diabetic men.

Simply put, a diabetic man who does not control his glucose levels has less of a chance of impregnating his partner and when he does the risk of miscarriage and deformities

Impact on female infertility There are more than 200,000 new cases of

Type II diabetes diagnosed every year with another 2.4% of the general childbearing population suffering from the disease but not

In addition to keeping an embryo from implanting, glucose levels that are too high can also affect hormone levels throughout the body including the all-important estrogen, progesterone and testosterone levels needed for a pregnancy to occur. That is why glucose control is so vital to your

The reproductive period of diabetic women may be reduced due to delayed menarche (time of onset of periods) and premature menopause. During the reproductive years, diabetes has been associated with menstrual abnormalities, such as prolonged cycles and secondary amenorrhea. It was found that better sugar control and prevention of diabetic complications improves these irregularities and increases fertility rates close to those that are seen in the general population. A woman with higher than normaglucose levels can get pregnant month after month. Unfortunately, her diabetes status prevents thatembryo from implanting in the uterus,

Diabetes is a disease that affects millions of people and their families, WHO estimates pregnant In this case, the diabetes isn't preventing conception, but is preventing an ongoing pregnancy. High glucose levels are reported to ncrease a woman's chances of miscarriage by 30-60% according to statistics released by the American Diabetes Association.

> Impact on pregnancy Even when implantation does occur, there are

> other risks to consider: •An increased risk of birth defects due to

damage caused to embryonic cells form the high levels of glucose in the blood. If you have gestational diabetes, your baby's

lungs tend to mature a bit later. •A larger baby resulting in an increased incidence of c-section

Risk of having low sugar levels in baby after

Controlling Your Diabetes

When it comes to controlling their diabetes in order to attain a healthy pregnancy, most doctors urge women to plan ahead for a

pregnancy by doing the following:

•Get their weight to a normal level (the more obese you are, the harder it will be to control your glucose levels and your estrogen levels will be high that can impact fertility). This is because fat has an enzyme that converts an androgen to

an estrogen. Get your A1C levels below 6 before attempting to get pregnant.

•Controlling your daily sugar levels for 3-6 months (the longer the better) to give your body the chance to prepare for a pregnancy Target blood sugar levels during pregnancy

Sugar Levels (mg/dl) Preexisting diabetes Gestational diabetes <140 Post meal (2Hr)

Should Diabetic Partners Try and Conceive At It can be said that it is highly important to understand the risks involved in high glucose levels and fertility & by simply controlling your glucose levels and maintaining it at a normal level will reduce these risks and offer the opportunity for a safe pregnancy resulting in a healthy baby. The key to success, of course, is working with your endocrinologist and infertility special ist to ensure that your glucose levels remain stable months before trying to conceive as well as during a pregnancy. With a good plan and dedication to eating right and staying healthy, your chances of giving birth are very high, despite having diabetes.



60% of the Cancer Patients are Above 65 Years of Age

extinction. As cells grow faster in young age, development is possible. As we grow up, the process of multiplication of cells whether occurrence of cancer is exposed to chemicals are more invisible in older people. The proper to get cancer when regular process gets derailed, new those reasons are as follows: leads to formation of tumors in the sex with many

limit to a particular area, some old areas and tissues through blood hormones expand as we grow old are helped predominant at old age

surroundings, bad habits, weather chemicals as per the profession pollution, lifestyle, usage of diseases hormones, family history, certain types of virus and bacteria, The slow changes occur in tissues Everyone has to have the fertilisers, radiation etc.

Cancer Institute 60% of the newly having Werner Syndrome, age, screening tests to detect detected cancer patients re above Alzheimer's, AIDS are more changes in the body, treatment at 65 yrs. Old and 70% of them are prone to get cancer. Old age an early stage not surviving. The chances of people having higher hormone contacting cancer are 10% higher levels in the body are more prone in the people above 65 yrs. of age to get certain types of cancers. For when compared with the younger example, women having ones. The older people are more prolonged high levels of estrogen prone to get all types of cancer. are prone to get breast, Especially cancers of colon, endometrial, breast cancers. If a rectal, prostate, pancreas, lungs, woman has not reached bladder, large intestines, chest are menopause even after 60 yrs. of more likely to occur as we grow age, then it needs an investigation. old. Apart from that there are Menstruation at 9 yrs, of age, late more chances that the tumors may marriage, family planning not respond to the treatment in increase the risk of getting breast these people. As the older people cancer. often suffers from problems like High Blood Pressure, Diabetes, Testosterone hormone levels may

Every cell that has life is be given by taking not only their People cannot refrain from prone to cancer. That is the reason, body health conditions into certain habits developed at young every living being including the consideration, but also taking age in the company of friends plants of this creation fall prey to their mental, social, family and Smoking, alcohol, having sex this malignant decease. The economic conditions into with many may lead not only to matured cells in our body consideration and by giving lung, lever, cervical cancer, but multiply into different cells, confidence to them. Because of also cancer to any other part. The thereby producing new cells. As this counseling plays an exact reasons for formation of

by many factors like socialite 5. Getting exposed to certain and lever test who have the habits of smoking and alcohol for an conditions, professional reasons, 6. Treatmenst taken for other early detection of changes

Joint degeneration, Thyroid lead to prostate cancer. That is the problems, Blockages in blood reason, treatment in such cancers vessels of heart etc., these people include hormone therapy in require well designed addition to surgery, radiation, personalized cancer treatment. chemo. Treatment for cancer patients is to

the body ages, each cell goes on important role in their treatment. these tumors are not known. They may be genetic or may be because

slows down and the body stops inevitable in older people. The prone to get cancer when developing. In old age, new cells researches prove that there are a compared to normal people. are born only to replace the worn lot of reasons for occurrence of Irrespective of the habits, it is out cells. When this natural and cancer in older people. Some of better to get screening tests done regularly after a certain age. cells start generating even when 1. Prolonged bad habits at young Women after 35 yrs, of age need old cells are still alive, which age like smoking, alcohol, having to get pap smear test to detect cervical cancer and to get body. While some benign tumors 2. Reduced immunity as we grow mammography and selfexamination to detect breast malign tumors expand to other 3. Excessive usage of certain cancer after 40 yrs. of age. Similarly, men after 50 yrs. of age and lymphs are cancerous tumors. 4.Occurrence of slow changes in have to get PSA test to detect Such cancerous tumors, which cells at young age getting prostate cancer, lever test who have hepatitis-B positive, lungs

due to certain habits during young awareness that cancer can be As per the survey of National predominant at old age. Persons and good life style since young



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Some asymptomatic patients are diagnosed through 'opportunistic screening" of high risk groups (at a routine medical visit, the health care provider may identify the patient as being at higher risk of diabetes and recommend a screening test). For example, age >45 years of age, a BMI >25 kg/m2 may, being of certain ethnic group

In some cases, the patient him/herself requests screening. Treatment

> Overall aim of treatment is symptom relief and prevention or delay of complications by targeting normal blood glucose levels. Patients treated with diet/

exercise, or with addition of

or being hypertensive may

prompt a screening test.

one or more categories of oral medications, with a combination of oral medications and insulin, or with insulin alone.

Glucometers to self-monitor blood glucose (with less frequency than with T1D).

Early detection and treatment of complications (at intervals recommended by national and international guidelines): eye exam, urine test, foot care, and specialist referral as needed.

symptoms of hypoglycemia (such as hunger, palpitations, shakiness, sweating, drowsiness and dizziness) and hyperglycemia.

Self-monitoring for signs/

Patient education about diet, exercise, and foot care. Gestational diabetes

(GDM)

Description Characterized by hyperglycemia of varying severity diagnosed during pregnancy (without previously known diabetes) and usually (but not always) resolving within 6

weeks of delivery. Risks to the pregnancy itself include congenital malformations, increased birth weight and an elevated risk of

perinatal mortality. Increased risk to woman of developing diabetes (T2D) later in life.

Symptoms Increased thirst (polydipsia) and increased urination (polyuria) are more commonly noted (although other

symptoms can be present). Because pregnancy itself causes increased urination, these symptoms are difficult to recognize as abnormal.

A larger than normal baby during pregnancy (noted on routine prenatal exam) may prompt diabetic screening.

Diagnosis Standard OGTT is done at 24-28 weeks after an overnight fast (fasting plasma glucose and a plasma glucose 2 hours after 75g glucose drink

is done). A 2 hour level >=7.8mmol/L (or 140 mg/dL) is diagnostic of gestational diabetes.

If fasting and postprandial blood sugars are elevated in the first trimester, this may indicate preexisting diabetes mellitus (which is considered a different condition, with different implications).

Treatment Strict metabolic control of blood glucose to lower obstetrical risks.

Patients treated with diet/ exercise, with addition of oral medications, or with the addition of insulin.

Glucometers to self-moni-

tor blood glucose.

Patient education about diet and exercise. Patient education after delivery regarding weight loss/ exercise to prevent future

diabetes. Lifelong screening for T2D as patient will be in high risk category.

> Endocrinologist **CARE** Hospitals Hi Tech City

Consultant

- Dr. Jaysimha Reddy