A unique mobile eye care initiative for the diabetics

DR TAREQ SALAHUDDIN, back from Bangalore, India

Nayana (means eye) is the

- run by Dr Krishna R Murthy, Dr Praveen R Murthy, Dr K R Murthy and mology, Prabha Eye Clinic and Research Center and The National Association for the Blind of Karnataka state of Bangalore in India. In fact, this is a great boon for the rural people living with diabetes retinopathy and its complications.

care initiative for diabetics is dedicated by the tireless efforts of 83 ophthalmologists, 225 physicians, 19 surgeons, 6 VR fellows and 9 mobile unit staffs who believe a difference can be made.

The diabetic retinopathy dilemma

The treatment of diabetic retinopathy and its complications are usually run in urban centric care models. High patient drop outs are prevalent due to the cost and various socio economic factors. Camp based detection rates are high, but dropouts are also high which makes almost no difference when people do not or cannot avail further

treatment facilities.

them, inadequate number of trained physicians to provide skilled eye care are common reasons that promote the name of a unique mobile eye situation. Under this circumcare initiative for diabetic stance, the nature of the patients Supported by the condition needs holistic and World Diabetes Foundation sustained care approach through a viable economic model. Moreover, when providing eye care for the Subbakrishna Rao and a Joint poor, the main focus projects Project of The Vittala Interna- on cataract blindness. Diational Institute of Ophthal- betic retinopathy draws less attention of the ophthalmologists although a large number of populations have been suffering from the problem.

It is a matter of great concern that diabetes is a silent epidemic and the number of patients is escalating day by day. The increasing number This unique mobile eye of diabetes mellitus cases poses major health care challenges. Diabetes is also the leading cause of blindness worldwide.

Innovation in eye care for the diabetics in rural setup

To overcome these barriers, an innovative van was design all aluminum with special suspension with the help of Vortex Engineering and IIT Chennai. It contains special carry cases for equipment from Germany and Korea with provision of tele medicine link with DICOM 2 compatibility.

The van is equipped with modern and up to date instruments to offer advanced eye care to the Expensive equipment, rural people. The range of lack of manpower to handle treatment facilities include

any prenatal pregnancy

difficulty (fetal loss and/or

difficulty becoming preg-

their parents smoking

around them were 26 per-

cent more likely to have had

difficulty becoming preg-

nant and women exposed to

to have had a miscarriage,

Four out of five of the

Peppone's team reported.

to secondhand smoke dur-

ing their lifetimes and half

Other studies have linked

smoking with miscarriage,

birth defects and sudden

infant death syndrome, also

known as cot death or crib

usage and exposure on

pregnancy outcomes

remain a public health pri-

It is possible that second-

hand smoke interferes with

involved in fertility and

pregnancy, the researchers

said. It can also affect the

woman's cervix, the open-

ing in the uterus through

which sperm passes to

ority" they said.

"The effects of tobacco

any secondhand smoke

Women who remembered

nant)," they said.



from routine eye examination, fundoscopy to angiogram of the ocular vessels, laser treatment and tele medicine.

The start of the project

Three year ago when the van was first introduced in this area, retinopathy treatment was only been available at certain urban hospitals. This means travelling 200-300 Km to access such care, resulting in huge barrier for people who live in rural areas and semi-urban areas. However, now Karnataka has achieved impressive results after introducing a unique to bring the treatment out the patients.

Every month the van visits 23 locations across 13 districts catering to the needs of 18.31 million people. These locations consist of 8 eye hospitals/eye departments of larger

INTERVIEW

hospitals, 3 Government hospitals and 11 other clinics. "We have completed 375

field days. We see an average of 33-34 patients per location. This is the only van in India which is providing these kinds of facilities for the prevention and treatment of diabetes retinopathy", said Dr. Shivaram, a senior ophthalmologist and coordinator of this mobile eye care van, based in Yalundar, Karnataka. He further said, "After the introduction of this van, 80 per cent of the people living with diabetes in rural areas have started getting treatment of diabetic retinopathy."

Nayana is thus rekindling the light in many eyes, which would otherwise have become sightless.

Other aspects People living with diabetes in

this area have made a Diabetes Forum. This forum organises periodical meetings to address the problem of diabetes. Mr. Mahadev Appa, a patient of diabetes retinopathy and retired government employee, said, "I had been suffering from diabetes for the last 20 years. However, I had no idea about diabetes retinopathy till 2 years back when this van came to my village, B.R. Hills. Then I got myself checked and was diagnosed with diabetes retinopathy. I immediately started taking treatment and today my retinopathy problem is gone." His 24 years old daughter Gayatri feels that her father has got a new lease of life.

Main goals of the project The main objective of the project include to leverage the trained manpower already available in many locations of see this beautiful world.

Karnataka, reducing the cost of diabetic retinopathy treatment, to increase compliance rates among patients for treatment, to provide diagnosis, treatment and management within a distance of 50 km of the patients' residence, to improve clinical practice levels to global and uniform standards, to make the project sustainable; earn enough money to run itself, research and analysis, patient educa-

The motto is — no patient shall go blind from diabetes for want of treatment or money in the project areas. In fact, this serves as a holistic approach of training of ophthalmologists.

Could Nayna be replicated?

Nayna has brought the eye care services especially for the diabetics to the doorsteps of the people who need it the most reducing the chance of drop outs. Along with providing the treatment, it has made people aware that they need the service, educated the patients and helped to develop a new insight among them. This model is very much needful in the context of any third world country. The people who run the project believe that this could be replicated anywhere.

There are people to help, finance and support if we can develop a sustainable model in our area of service. It is time to roll up our sleeves and work for the diabetics to help them

every day is another great way. Otherwise, fiber supplements can actually make your

constipation worse. And add fiber to your diet slowly to avoid problems with gas.

Most people who are mildly constipated

diet and lifestyle changes and are still

constipated, a doctor may recommend

several different conditions that all

have inflammation of the stomach

lining. Gastritis can be caused by drink-

ing too much alcohol, prolonged use of

nonsteroidal anti-inflammatory drugs

(NSAIDs) such as aspirin or ibuprofen

or infection with bacteria such as

gastritis), or it can occur slowly over

time (chronic gastritis). In spite of the

many conditions associated with

gastritis, the signs and symptoms of

pain in your upper abdomen and,

occasionally, bloating, belching, nau-

the disease are very similar: a burning

In some cases, gastritis can lead to

ulcers and an increased risk of stomach

Gastritis may occur suddenly (acute

Helicobacter pylori (H. Pylori).

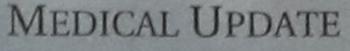
sea or vomiting.

laxatives or enemas for a limited time.

However, for those who have made

Gastritis is not a single disease, but

do not need laxatives.



Baby girl born from full ovary transplant

REUTERS, Boston

ing her infertile twin bloodvessels are so tiny. sister to give birth to a November 11, 2008.

the researchers said.

Writing in the New turnout to be as viable. England Journal of Medistart families.

15, but the transplanted view. ovary from her sister of the Infertility Center of leagues reported.

restore fertility.

thirds of the eggs die want to do that.' from lack of blood flowand the women quickly after about three years.

Hoping to avoid those 43, said Silber.

problems, the Silber team used a full ovary Doctors in St. Louis said and reconnected two they have successfully veins and one artery to transplanted a full ovary feed the graft, which is a from a volunteer, allow- challenge because the

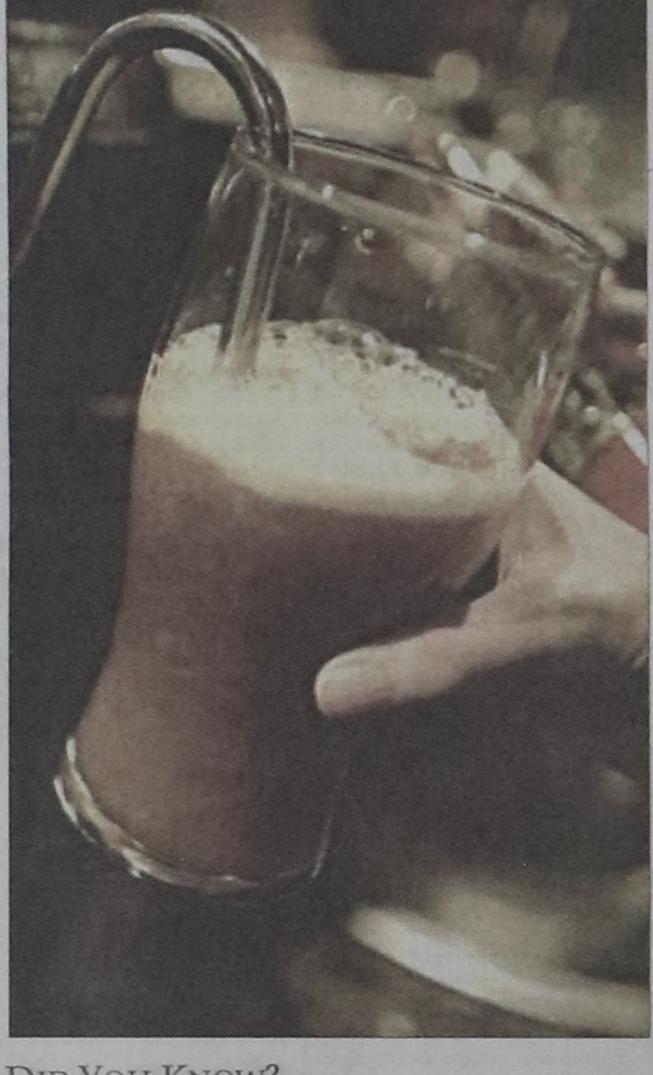
Silber said although healthy baby girl on the work has involved identical twins where It is the first time an one had become premaentire ovary has been turely infertile, the techtransplanted and nique could eventually resulted in a live birth, benefit two groups of women if frozen ovaries

"One is the young cine, they said the cancer patient who is method may offer a way about to lose all her ovarto preserve fertility for ian function as she's cancer patients or for about to undergo chewomen who want to wait motherapy. We just take until they are older to that ovary out, freeze it and transplant it back. One twin went into That's one big payoff," he early menopause at age said in a telephone inter-

The other, he acknowlrestored full fertility and edged, is more controshe gave birth at the age versial: extending the of 38, Dr. Sherman Silber time a woman is fertile.

Women in their 20s St. Louis and his col- could have one of their two ovaries removed so it Previously they had can be frozen. "If she's 40 transplanted the outer or 45 when she has it shell of the ovary and transplanted back, it's found that, even if the still a 25- or 30-year-old tissue is frozen, it can ovary, so she's preserving her fertility," he said. Although six babies "We've actually done it were born to eight for quite a few patients. I women using those think there will be many techniques, about two- more women who will

The infertility rate at ing through the tissue, age 25 is only about 6 percent. It jumps to 70 slip into menopause percent by age 40 and is about 95 percent at age



DID YOU KNOW?

Alcoholism increases osteoporosis risk in young men

consequence of alcoholism, and now new findings sugbone mass. Surprisingly, a similar risk was not seen in their female counterparts.

In a study of 57 alcoholic adults between the ages of 27 and 50, researchers found that one quarter of the men forming cells. However, had lower than normal bone mass. Just 1 of the 20 women work as well; alcoholics had a deficit in bone mass.

The latter finding, the researchers speculate, might be explained by the women's relatively high estrogen levels that, for the time being, may have protected their bone mass.

In contrast, men had no such hormonal protection and, like their female counterparts, showed high deficiency rates of vitamin D, which is important in maintaining bone mass.

The findings suggest that even young alcoholic patients should have their bone mass and bone metabolism screened, the researchers report in the journal Alcoholism: Clinical

"The fact that even relatively healthy young male

Brittle bones are a known alcoholics - without any kind of liver disease - show low bone mineral density is gest that even young men an important finding," lead are at risk of developing low researcher Dr. Peter Malik, of the Medical University Innsbruck, told.

It is thought that alcoholism leads to bone thinning, in part, because of toxic effects on the body's boneindirect effects may be at little exercise, both of which can drain bone density.

Malik pointed out that in this study, bone density was not related to the duration of patients' alcohol dependency or to the amount of alcohol they had consumed

before going into treatment. This finding suggests that alcoholic patients' lifestyle habits may indeed contribute to waning bone density.

It is not clear whether bone density improves if the alcoholics are able to stop drinking, Malik said, as few studies have followed young recovering alcoholics' bone health over time. He and his colleagues now plan to study that question.

Source: Alcoholism: Clinical and Experi-



Secondhand smoke also causes fertility problems

REUTERS, Washington

Women who breathed in secondhand smoke as children or young adults were later more likely to have trouble getting pregnant and suffer more miscarriages than women not exposed to smoke, U.S. researchers reported.

They said toxins in the were 39 percent more likely smoke could have permanently damaged the women's bodies, causing the later problems, and said women reported exposure their finding support restrictions on smoking.

Luke Peppone at the grew up in a home with University of Rochester in smoking parents. New York, Dr. Kenneth Piazza of the Roswell Park Cancer Institute in Buffalo, New York, and colleagues studied 4,800 women treated at Roswell Park.

They were asked to give details of all pregnancies, attempts to get pregnant, and miscarriages, as well as their history of smoking and breathing secondhand smoke.

Overall, 11 percent of the normal hormone action women reported difficulty becoming pregnant, and about a third lost one or more babies, the researchers wrote in the journal Tobacco Control.

"Forty percent reported fertilise the egg.

Latest palliative care options for gastrointestinal diseases

STAR HEALTH CORRESPONDENT

A leading specialist and senior consultant in gastroenterology, liver diseases from Mount Elizabeth Hospital, Singapore Dr Yap Chin Kong recently visited Bangladesh. During his visit he shared his views on recent advances in the diagnosis and treatment of different gastrointestinal diseases.

Dr Yap talked about the common problems like irritable bowel syndrome (IBS) and constipation where he highlight the healthy eating for proper nutrition, balance diet. He also shed lights on how one can prevent gastrointestinal diseases like gastritis, ulcers and so on.

Irritable bowel syndrome (IBS) is one of the most common disorders that doctors see. Yet it is also one that many people are not comfortable talking about because the signs and symptoms may be embarrassing.

Doctors are not sure what causes IBS. The nerves and muscles in the bowel appear to be extra sensitive in people with IBS. Muscles may contract too much when you eat. These contractions can cause cramping and diarrhoea during or shortly after a meal. Or the nerves may react when the bowel

stretches, causing cramping or pain. Most people with IBS find signs and symptoms improve as they learn to control the condition. Most people can control their symptoms with diet, stress management, and prescribed medications. For some people, however, IBS can be disabling. They may be unable to work, attend social events, or even travel short distances.

It occurs more often in women than in men, and it begins before the age of 35 in about 50 percent of people. Abdominal pain, bloating and discomfort are the main symptoms of IBS. However, symptoms can vary from person to person. Some people have constipation, which means hard, difficult-to-pass, or infrequent bowel movements. Researchers have yet to discover any specific cause for IBS.

One theory is that people who suffer from IBS have a colon, or large intestine, that is particularly sensitive and reactive to certain foods and stress. The immune system, which fights infection, may also be involved. Stress - feeling mentally or emo-

tionally tense, troubled, angry, or overwhelmed - can stimulate colon spasms in people with IBS. The colon has many nerves that connect it to the brain. Like the heart and the lungs, the colon is partly controlled by the autonomic nervous system, which responds to stress. Stress makes the mind more aware of the sensations that arise in the colon, making the person perceive these sensations as unpleasant.

Some evidence suggests that IBS is affected by the immune system, which fights infection in the body. The immune system is affected by stress. For all these reasons, stress management is an important part of treatment

Constipation is a common digestive system problem in which you have infrequent bowel movements, pass hard stools, or strain during bowel movements. Constipation is defined as having a bowel movement fewer than three times per week. With constipation stools are usually hard, dry, small in size, and difficult to eliminate. Some people who are constipated find it painful to have a bowel movement and often experience straining, bloating and the sensation of a full bowel.

Constipation is a symptom, not a disease. Almost everyone experiences constipation at some point in their life, and a poor diet typically is the cause.



Dr Yap Chin Kong

Most constipation is temporary and not serious. Understanding its causes, prevention, and treatment will help most people find relief. Fortunately, a few common-sense lifestyle changes, including getting more exercise, eating high-fiber foods and drinking plenty of water, can go a long way toward preventing or alleviating constipation.

A number of factors can cause an intestinal slowdown, including: Inadequate fluid intake, a low-fiber diet, Inattention to bowel habits, age, lack of physical activity, some medications, changes in life or routine such as pregnancy, aging, and travel etc. Changes in your lifestyle may be the safest way to manage constipation.

To help ease symptoms, trying using a fiber supplement, such as oat bran, Metamucil, Konsyl or Citrucel. These natural supplements help make stools softer and are safe to use every day. Drinking plenty of water or other fluids

cancer. For most people, however, gastritis is not serious and improves quickly with treatment. Treatment usually involves taking drugs to reduce stomach acid and thereby help relieve symptoms and promote healing. (Stomach acid irritates the inflamed tissue in the stomach). Avoidance of certain foods, bever-

ages, or medicines may also be recommended. If your gastritis is caused by an infection, that problem may be treated as well. For example, the doctor might the researchers examined often have poor diets and prescribe antibiotics to clear up H. pylori infection. Once the underlying problem disappears, the gastritis usually does too.

Latest palliative care options for gastrointestinal diseases

.Dr Yap showed the recent advancement in the high quality imaging facilities by endospcopic ultrasound by which cancer cells are more accurately detectable. Dr Yap revealed the esophageal stenting technique for the terminally ill patients suffering from the cancer of food tube.

Dr Yap told that the main purpose of stenting is to provide paliative care to the patients and improving their quality of life at the end stage of the disease. This can eventually increase the longevity of life and relief the severe discomforts. It mainly relieves from the cancer of esophagus which obstructs the passage of food.

The stent is also being used relieving other obstacles like biliary stricture, pancreatic duct obstruction.

and Experimental Research.

mental Research