Managing angina without surgery

MD RAJIB HOSSAIN

There are several modern invasive tools cardiologists are using to treat angina (chest pain) including angioplasty (blowing up balloons to expand the artery at sites of block), stenting (insertion of cylindrical wire mesh tube prop open the blocked artery) and bypass surgery (increasingly through very small incisions). But drug therapy may be just as effective to restore blood flow as invasive surgery for stable angina, a new analysis published in The New England Journal of Medicine suggests.

Angina is chest pain or discomfort that occurs when an area of heart muscle does not get enough oxygen-rich blood. It is itself. often a warning sign of an impending heart attack. If a coronary artery (arteries which supply blood to heart) becomes blocked, either by fatty material or a blood clot, then part of the heart muscle is starved of oxygen. Due to blockages in the heart's arteries, affected person may feel like pressure or squeezing in chest. The pain also may

occur in shoulders, arms, neck, jaw, or back. It can feel like indi-

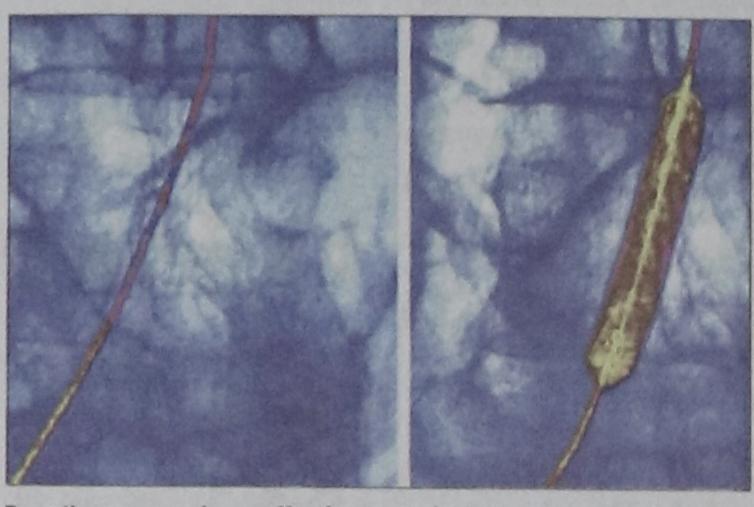
DHAKA SATURDAY SEPTEMBER 13, 2008

Invasive treatments are found to relieve symptoms decisively in most patients. They actually prevent impending heart attacks and deaths only in special circumstances notably, when patients are treated within a few hours of an acute heart attack.

On the other hand, simple and cost-effective drug treatment can give patients the same advantage. Cardiologists now have several effective classes of drugs that have the estimable ability to reduce the heart's workload, improve blood flow by dilating arteries, and increasingly target the diseased artery

Often, patients and their physicians confront when to turn to the invasive strategies that have long been a mainstay of angina management. A recent analysis of data from pivotal clinical trial called COURAGE provides some important new insights.

In this study, over 2,000 patients with stable angina were randomised into groups receiv-



Drug therapy may be as effective as angioplasty, above, or other invasive interventions used to manage angina, new research suggests.

or without additional angioplasty and stenting. The primary results, published in 2007, showed no additional benefit to invasive treatments with regard to heart attack or deaths in the group during 4.6 years of follow-up.

The new data, published last month in The New England Journal of Medicine, revealed

ing aggressive drug therapy with whether adding invasive treatment to intense medical treatment reduced the frequency of angina and improved quality of life and well-being in these patients.

patients who had invasive revascularisation reported slightly less angina and slightly better quality of life. But by the end of the 4.6 years of follow-up, sin (causes blood vessels to con-increase risk of heart attacks.

the patients who did not receive strict, and drives blood pressure invasive treatments were faring up) are quite effective. Statins as well as those who did (although about one-fifth of those of the drivers of atherosclerosis, originally treated without surgery ultimately required mation in the plaque independmechanical revascularisation).

the study we can learn two provide a benefit to arterial important lessons. First, starting aggressive therapy, be it with blood pressure. drugs or drugs plus surgical revascularisation, improved not need to rush into surgery as a symptoms and quality of life in first step in people with stable both groups promptly in the angina. Along with drug therapy case of surgical lifestyle changes like quitting revascularisation, but rapidly even for drug therapy alone. This switching to a low fat diet and is extremely good news for taking regular exercise (such as patients with angina: modern walking every day) can signifitherapy is quick, effective and cantly improve the condition. results in an excellent quality of They can help dampen the need life in most individuals.

lower bad cholesterol (LDL), one and also appear to calm inflament of effects on LDL. Blocking From the expert analysis on angiotensin action may also health beyond just lowering The second message: we do

cigarettes, losing excess body fat, of surgery. Invasive strategies are The surprising and progres- only needed if these nonsive benefit of non-invasive invasive measures are proved to therapy may come about beineffective. These new data, in because some of the newer drugs the context of many other stud-Shortly after treatment, the favorably alter the biology of the ies, will help cardiologists to take artery and plaque (fatty depos- a staged approach to the manits). Several drugs notably statins agement of stable angina with and agents that interrupt the confidence that this implication action of the hormone angioten- does not jeopardise longevity or

It is said that 'the family that revealed that families eating prays together stays meals together generally together', but we can add consumed higher amounts 'eating together' is another of important nutrients such way to build up and improve as calcium, fiber, iron, vitafamily bonds. As well as mins (B6, B12, C and E) and inviting neighbours, friends consumed less overall fat, compared to families who and relatives during mealtime has a surprising power. never or only sometimes eat It does not matter what meal meals together. you are having! It could be

DR RUBAIUL MURSHED

Never eat alone!

eating rice or tea together.

leled. The sharing of food

understanding among peo-

members or relatives, they

can truly lead to better physi-

food. This also helps in chew-

jaws and mixing of the saliva

digestion takes place because

the food particles are cut into

smaller pieces, not requiring

as much mixing in the stom-

According to a University

of Minnesota study, frequent

a decreased risk for

unhealthy weight control

practices and substance

abuse. A Harvard study

showed that eating family

dinners together most or all

days of the week was associ-

ach or intestine.

effects in the exercise of the to success.

family members.

All health information to keep you up to date

According to a Lou Harrissimple fish, vegetables and Reader's Digest national poll dhalbut it is the simple act of high school seniors sitting at the same table and unveiled that children who frequently eat meals with their families tend to do The pleasures of sharing better in school. during eating are unparal-

In our childhood we were with neighbours, relatives, used to this culture. For friends, the needy, and the generations it has been a destitute is also emphasised basic human ritual, but in religions. Eating with othtoday the scenario is differers bring about harmony and ent. Everyday family lunch is no longer a practice. Someple. People are usually more times parents pressured by relaxed when eating in com- more than one career are on pany. Their minds are less the run. And ultimately absorbed in their daily activi- families do not dine at a ties and are free of worries. common table. In fact, eat-However, theses gatherings ing together is not just eating are not only a time for a meal. It is important strengthening relationships because it gives children and keeping track of family reliable access to their parents. It highlights the significance of the neighbours, cal and mental health for all friends and relatives. It reminds the child that they There are health benefits of are part of it. And a child's eating together. During that belongingness in its family time we usually eat slowly. contributes to his spirit and Eating slowly is recomstability. It has been noticed mended for health. This that good table manners are reduces the consumption of missing nowadays from some of our children. But ing the food well. Slow eating good manners are essential

According to researchers, with food. Hence, efficient there is an ongoing learning process at the family dinner table. Taking time to prepare and serve an appetising meal at home can help children eat healthy food with lower fat, lower sodium and higher nutritional values. Thus, we family meals are related to can escape from unhealthy better nutritional intake, and fast food. Having the family together for at least one mealtime each day gives parents and teens a chance to attach. It is a good time to check in with each other. But remember, do not shout and fight during eating - keep ated with eating more the mood light, relaxed and healthfully. The study trynotto instructor criticise.

against brain shrinkage

REUTERS, Washington

Having higher vitamin B12 levels may protect against brain and Ageing. shrinkage in elderly people, according to a study published recently.

findings striking, but said more information is needed before recommending that people take vitamin B12 supplements to guard against the loss of brain volume and possibly prevent declines in thinking and memory.

In the study led by David Smith and Anna Vogiatzoglou of and fortified breakfast cereals. the University of Oxford in Britain, people in the upper third of vitamin B12 levels were six times less likely to experience brain shrinkage than those in the lowest third.

The study involved 107 healthy people ages 61 to 87 who underwent scans to measure brain volume and gave blood samples to assess vitamin B12 levels once a year for up to five years.

"Our study suggests, but does not prove, that by modifying our vitamin B12 status we might be able to protect our brain and so possibly prevent cognitive decline. So, we think it is too early to advise people to take B12 supplements to prevent their

Awareness programme

about women's common health management of lymphomas".

on women health

With a view to raise awareness

and increase level of knowledge

problems, Singhealth, Singa-

pore's largest group of healthcare

institutions and Zonta Club,

Dhaka III have jointly organised a

seminar at a local hotel in the city,

Dr Chia Shi Lu, Consultant Ortho-

pedic surgeon of Singapore General

Hospital and Dr Lim Soon Thye,

Consultant Medical Oncologist of

National Cancer Centre spoke in the

seminar as keynote speakers.

STAR HEALTH REPORT

says a press release.

brains from shrinking," said Smith, who heads the Oxford Project to Investigate Memory

"What we can say is that our results suggest that rather than maintaining one's B12 at a level The researchers called their that is just above the cut-off for deficiency, it might be prudent to aim to keep it higher up the normal range," he added.

Smith pointed out that could be achieved by eating plenty of foods that are a good source of vitamin B12 such as milk and other dairy products, fish, meat

Vitamin B12 helps in the formation of red blood cells and is important for the maintenance of the central nervous system. Deficiency can lead to anemia and neurological damage.

Smith said another study from Oxford that came out last year showed that lower vitamin B12 levels - but still within the normal range - were linked to cognitive impairment and a higher risk of later cognitive decline.

Vitamin B12 deficiency is a significant issue among the elderly due to problems in vitamin absorption and among vegetarians whose dietary intake may be low, the researchers said. It is a serious problem in less developed parts of the world.

Dr Chia focused on "Arthritis

and you - women's osteoporosis

ouch my knee hurts" and Dr Lim

spoke on "New paradigms in the

Vijaya Sreenidhi, Senior Director,

Programme Development,

Singhealth. Ms Dilruba Ahmed-

President, Zonta International

was present as chief guest while

Ms Rubina H Faroug, President,

Zonta Club, Dhaka III attended as

About 100 members of the club

were present to be apprised of various

importanthealth awareness tips.

Special Guest.

Seminar was chaired by Ms

Vitamin B12 may protect | Herpes drug may help control AIDS virus

REUTERS, Washington

A cheap, generic drug long used to treat herpes may also help control the AIDS virus, U.S. researchers reported very recently.

They found that acyclovir can work against HIV, but only in tissues that are also infected with herpes.

The findings, published in the journal Cell Host & Microbe, help explain why some studies have shown that people taking acyclovir have lower levels of HIV, yet others show that taking acyclovir does not prevent infection with the AIDS virus.

The herpes virus itself changes the drug into a form that can work against HIV, said Dr. Leonid

Margolis of the National Institute of Child Health and Human Development, who helped lead the study. "If you suppress herpes, HIV also goes down," Margolis said.

Acyclovir was the first drug to be designed and made synthetically, without the use of any compounds from plants or animals, Margolis said.

It is also very safe, as it does not herpes virus — usually herpes simplex 2, the strain that causes genital herpes. The virus completes a chemical reaction called phosphorylation, turning the acyclovirinto an active compound.

Researchers had noticed that patients with HIV who also took

acyclovir for herpes infections tended to have less virus in their blood, a measure called viral load.

healthier an HIV patient is. But several high-profile experiments aimed at preventing HIV herpes failed.

Margolis thinks he knows why. "If you test acyclovir against work," he said.

And in the prevention studies, doctors were trying to completely suppress herpes. "If you suppress herpes virus completely, there is nothing to phosphorylate," he said. So perhaps lower or more infrequent doses might be more

effective, he said. This will have to be tested.

And the good news is that a The lower the viral load, the patient does not have to be infected with genital herpes to benefit. Any herpes virus will do, including HHV6 and HHV7, infection by treating patients for viruses that cause a nearly universal childhood infection sometimes called roseola.

Like HIV, herpes takes up perbecome active until it encounters a HIV in pure cell lines, it doesn't manent residence in the body and cannot be eliminated. But drugs can suppress both to prevent symptoms. Adding acyclovir to the cocktails used to treat HIV may strengthen the mix, Margolis said.

HIV infects 33 million people globally. It has killed 25 million and there is no cure and no vaccine.

related any information.

and early screening.

Does cancer have an answer?

Singaporean doctors talked about the recent advancement

DR TAREQ SALAHUDDIN

Does cancer have an answer? To many people, cancer is a terrifying disease, which they hope not to get, and prefer not to think or talk about. But in reality, cancer is neither uncommon nor is it untreatable. Some types of cancer can be completely cured. With many other types, early diagnosis and proper treatment makes a big difference. Two most prominent special-

ists from Parkway Cancer Center, Singapore shared view with few health journalists of Bangladesh at a local hotel in the city recently. Dr. Lee Kim Shang, Senior Consultant Radiation Oncologist and Dr. Foo Kian Foong, Senior Consultant Medical Oncologist of Parkway Cancer Center (PCC) at Mount Elizabeth Hospital and Gleneagles Singapore came to Bangladesh as the guest speakers to deliver medical talks on "Advancement in treatment of Cancer" in an international seminar jointly organised by Ahsania Mission Cancer Hospital and Parkway Health, Singapore.

In the last fifty years, many remarkable advances against cancer have seen. These advances have benefited patients all over the world. However, cancer still remains to be the top killer in the world. Thankfully, in Singapore and more particularly at Parkway Cancer Centre, under the group Parkway Health hospitals, the survival of patients with cancer is also improving. This improvement is accredited to many advances in medicine, such as the introduction of more sensitive computer-assisted imaging, development of monoclonal antibodies and other targeted therapies, the identification of cancer-associated genes. That is why Parkway Health feels that it is important for the Bangladeshis to be aware because knowledge empowers patients to seek appropriate treatment early, and that,



Dr. Foo Kian Fong

holds the key to successfully battling cancer.

Since non-communicable diseases like cancer is getting more related to our urban lifestyle, PCC is organising health awareness seminars for the professionals in different business organisations very recently to focused with utmost care, comcreate awareness among them and for better understanding about dealing with cancer.

Cancer is a major illness and is the leading cause of death in most part of the world but not everyone who gets cancer will die from it. Is it due to our hectic or bad lifestyle habits? Has richer dietary patterns and smoking which has exposed us to carcinogenic (cancer causing) substances?

In the case that cancer still develops, spotting it in its early stages will give the best chances of beating it. On our part, we need to be aware of changes in our body. This may help detect cancer early and increases our chances of successful treatment. One should go for regular health screening tests especially for those who are considered high risk with family history of the disease.

Cancer management and medical breakthroughs are making cancer more manageable. Chemotherapy may be used



Dr. Lee Kim Shang

alone or with combination treatment such as radiation therapy or surgery depending on the severity of the disease.

The mission of Parkway Cancer Centre (PCC) is to provide a comprehensive and integrated premier cancer service that is patient fort and compassion along with their commercial services. They shared with the people of Bangladesh with PCC's knowledge and approaches in the advances of cancer treatment to achieve better awareness for patients to seek appropriate treatment early, and that, holds the key to success-

toxicity. fully battling cancer. Parkway Cancer Centre (PCC), Singapore provides a non-profit cancer counseling service and hotline named "CanHOPE". Through CanHOPE, both patients and the general public receive accurate cancer information, its related screening tests, treatment and other services. PPC believes that cancer is not only a physical ordeal; it is also an emotional one, affecting cancer patients, their family and friends. To help address into tumor tissues. these emotional needs, they offer resources to help patients and their loved ones cope in this diffi-

intensity-modulated radiation therapy to treat tumors. It combines precise 3D imaging from computer tomography for precise localisation of tumors prior to each daily helical treatment delivery. This image guidance allows for increased confidence level in dose radiation and at the same time permitting dose escalation

They concluded that cancer does have an answer. Some types of cancer can be completely cult time. People can write to cured. We need not live in denial CanHOPE@parkway.sg for cancer or ignorance of this disease!

During a brief interview, Dr Foo Kian Fong share about the causes and prevention of cancer and advances of cancer treatment. He also touched on what is the disease cancer, the risk factors associated with cancer, prevention

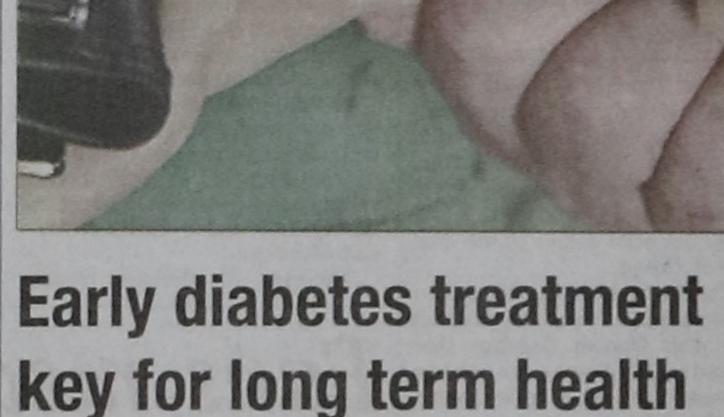
Dr Lee Kim Shang, Senior Consultant Radiation Oncologist shared about the TomoTherapy in cancer treatment, introducing TomoTherapy treatment towards a higher cure rate with lesser side effects.

He said that the treatment of cancer is a multi-modality approach, involving surgery chemotherapy, radiation and biological approaches. Radiation remained an integral part of treatment for many cancers, both for curative and palliative intent. The techniques of radiation continue to be refined, so that cure rates are increased while morbidities declined.

The goal of radiation, as in surgery, is to eliminate the cancer cells completely with the least possible damage to normal tissues. Advances in radiation dosimetry, treatment planning and delivery and verification have allowed for increased precision, dose escalation and reduced

Tomotherapy is developed as a new revolutionary way to deliver sparing normal tissues from high

> tions. can reverse type 2 diabetes, but



People with diabetes given can be difficult for many peointensive drug treatment soon after diagnosis are healthier when they grow older, even if they become less rigorous about controlling their blood sugar later on, British research-

ers expressed. This means it may be important to prescribe diabetes drugs early, even for people just diagnosed with type 2 diabetes, instead of trying to get them to diet and exercise first, the researchers reported in the New

England Journal of Medicine. "We now know not only that good glucose control from the time type 2 diabetes is diagnosed reduces the rate of diabetic complications but also that this early intervention leads to sustained benefits in the longer term," Rury Holman of Oxford University, who led the study, said in a state-

In type 2 diabetes, the body gradually loses the ability to use insulin properly to convert food to energy. Sugar levels shoot up, which can damage the eyes and kidneys, and cause heart disease, stroke and limb amputa-

Very strict diet and vigorous, regular and sustained exercise

ple. Several different classes of drugs are on the market for

type 2 diabetes. People given generic drugs in the sulfonylurea class to get their blood sugars down to desired levels had a 15 percent reduced risk of heart attacks and were 13 percent less likely to die than volunteers assigned to control their diabetes mostly

with strict diet, the study found. The impact was greater for people taking metformin, who had a 33 percent reduced risk of heart attack and were 27 percent less likely to die than those in the diet group. Metformin is sold generically and as Bristol-Myers Squibb's Glucophage.

The follow-up of 3,277 people who participated in the original study show these health benefits lasted for at least 10 years even when differences in blood sugar control disappeared.

The researchers also found that lowering blood pressure is the key to minimising diabetic complications but - unlike with blood sugar - the benefits do not increase over time.

Source: New England Journal of Medicine

