

### Health Tips



Pancreatic Cancer

Increased levels of dietary folate from food, but not from supplements, appears to reduce the risk of developing pancreatic cancer, according to results of a large populationbased study.

### **Dietary folate may lower** pancreatic cancer risk

folate from food, but not from supplements, appears to reduce the risk of developing pancreatic cancer, according to results of a large population-based study of Swedish men and women.

Folate, also known as folic acid, is a B vitamin that is naturally found in fruits and vegetables.

Previous studies have suggested that folate may protect against colorectal and breast cancer, Dr Susanna C Larsson and colleagues noted in their report.

To see if folate protects against pancreatic cancer too, Larsson, from Karolinska Institute in Stockholm, and her group followed subjects enrolled in the Swedish Mammography Cohort or the Cohort of Swedish Men. Included were 36,616 women and 45,306 men between 45 to 83 years old in 1997, when they completed food frequency questionnaires.

After a follow-up of 6.8 years, 135 cases of pancreatic cancer had occurred. The investigators analysed the data, factoring in the influence of demographics, smoking, body mass index, diabetes, exercise and the amount of dietary fruit, vegetables, calories, carbohydrates and alcohol.

For subjects with the highest amount of dietary folate

Did you know?

# **Bring TB patients under DOTS**

followed

ofcost

NGO activities

### TAREQ SALAHUDDIN

Tuberculosis (TB) is a major public health problem in Bangladesh. The country ranks 5th on the list of 22 highest burden TB countries in the world. It is estimated that 300,000 new cases crop up each year, of which about half of them are infectious TB. It is further estimated that about 70,000 people die every year

Hence, each hour eight persons die of the disease for which very effective treatment (DOT), free of cost, is available in Bangladesh. Before 1993 TB control was limited to TB clinics and TB hospitals. Field implementation of TB control integrated into the general health services, delivered by Upazila Health Complexes (UHC's), started back in 80s. However, NTP Bangladesh revised its strategies and adopted DOTS in 1993. NGO's have been involved since 1994. Facts about TB

#### • Tuberculosis is a disease caused by bacteria.

• There are two types of TB according to the location of infection - 1. Pulmonary TB or lungs TB, 2. Extra-pulmonary TB or TB that affect any part of the body

other than lung Pulmonary TB is the infectious one that occurs in about 80 per-

**Foreign object** 

wallowed

First Aid



A BRAC sasthwa sebika (health worker) is providing DOTS service to a young TB patient.

cent cases. • Transmission of pulmonary TB occurs by spreading of the bacteria into the air mainly through coughing, spitting, sneezing by a patient

### Key symptom of pulmonary TB

Cough for three weeks or more associated with fever, lethargy, loss of appetite and weight loss. What is DOTS? The internationally recommended

approach for TB treatment is Directly Observed Treatment Short-course (DOTS). It is an



tified using microscopy services, health and community workers or trained volunteers observed the patient shallowing the full course of correct dosage of anti-TB medicine

#### Advantages of DOTS • The DOTS can produce cure

rates up to 95 percent • It can prevent new infections by curing infectious patients

served by BRAC. There is a dire need for the control of TB in Bangladesh, otherwise we will face an epidemiological crisis.

It prevents development of multi

drug resistance by ensuring that

the full course of treatment is

Bangladesh adopted the DOTS in

1993 to combat TB. But it is a

matter of great regret that the

referral system is not yet satisfac-

It is important that all patients

The National TB control

Programme (NTP) ensures

DOTS through the government

healthcare facilities and some

NGOs. The health assistants and

sasthwa sebika (female health

worker) ensures DOTS all over

the country. The drug is totally free

There are different partners to

implement the NTP in different

parts of Bangladesh. People

should seek the TB treatment in

those organisations. For exam-

ple, in urban and periurban areas

of the divisional headquarters are

should be brought under DOTS

rather than treatment under

particular care or responsibility.

**DOTS in Bangladesh** 

### WHO maps out new strategy to battle tuberculosis

in 183 countries, but multi-drug

resistant tuberculosis (MDR-

TB), and co-infection in

patients with HIV/AIDS pres-

ent new problems. More than

260,000 people who died of

TB in 2004 were co-infected

broader array of actors in TB

control and adapt DOTS to

HIV co-infection, MDR-TB

and other special challenges

if we're going to achieve 2015

targets of the Global Plan ...

Stop TB Partnership.

hardest hit by TB.

said Dr Marcos Espinal

executive secretary of the

Lancet medical journal also

highlights the need for more

research into new treatments

and vaccine and the strength-

ening of local health systems

in poor countries which are

TB live in the most populous

countries in Asia. Bangla-

desh, China, India, Indonesia

and Pakistan account for 48

percent of the new cases that

are diagnosed each year.

The bulk of patients with

The strategy outlined in The

"We must involve a much

with HIV.

REUTERS, London

The World Health Organisation unveiled a new strategy to fight tuberculosis, an infectious disease that kills about 1.7 million people worldwide

each year. The strategy, which aims to expand existing treatment programmes, improve diagnosis and prevent coinfection with HIV/AIDS to halve TB prevalence and death rates and save 14 million lives by 2015.

"The new Stop TB Strategy injects new energies to make efforts more comprehensive and effective," Dr Mario Raviglione, director of the WHO's Stop TB Department, said. Patients with TB are

treated with the DOTS (Directly Observed Treatment, Short-course) programme - a multi-level approach that involves government commitment, patient surveillance

and drug treatment. The programme is running

## Improved formula for oral | Influence of family history on heart disease

#### episodes of diarrhoea. The ORS **DR MD HABIBE MILLAT** solution is absorbed in the small

intestine, thus replacing the water and electrolytes lost. WHO and Unicef have jointly issued guidance for the production of the new WHO and Unicef recommend that countries manufacture and use the new ORS in place of the According to Unicef and WHO. oral rehydration therapy should be combined with guidance on

appropriate feeding practices. Provision of zinc supplements (20 with no family history of early

familial hyperlipidaemia, it is Background family history, a wellknown risk factor for coronary heart disease, represents genetic, environmental, and behavioural elements, and the atelv interactions between them. If a family member (father, mother, brother, sister) has a history of early heart disease (before age 55 for men and before age 65 for women), you are at a higher risk for heart disease than someone

important that you tell other members of your family so that doctors can measure their blood cholesterol levels and advice appropri-A family history of early heart disease is a risk factor you cannot change. However, if you do have

a 50:50 chance of inheriting it. If

you have been told that you have

heart disease in the family, it is very important to eliminate any other risk factors you may have, such as smoking, a diet high in saturated fat and salt, high blood pressure, high cholesterol, diabeIncreased levels of dietary day or more) were 75 percent less likely to develop pancreatic cancer compared with subjects with the lowest amount of dietary folate (less than 200 micrograms per day).

However, there was no association between folic acid derived from supplements and pancreatic cancer risk-subjects who took folate supplements of 300 micrograms per day or more versus subjects who did not take supplements had the same risk

Larsson's group theorises that the reason that dietary folate alone reduced the risk of pancreatic cancer may be that folate from food sources better represents long-term folate intake than does folate from supplements

Another possibility, suggested by animal studies of high folic acid supplementation, is that high intake of folate from supplements may promote the progression of cancer if it is

already there. "Although our results suggest that increased consumption of foods naturally rich in folate may be beneficial," the authors conclude, "they do not encourage increased use of supplements for the prevention of

their memories to find their

way out. Half of the rodents

were kept awake for half of

the time that they would

normally be asleep - a condi-

tion meant to approximate the

low-level sleep deprivation

many people experience in

The animals that slept less

learned more slowly, and

didn't show increased neuron

survival in the hippocampus.

But they fared better than the

rested rats on a different type

of maze task, in which the exit

was visible, marked out with a

citrus scent, and moved for

every fourth run through the

say this suggests that special

techniques could be devel-

oped to help chronically

sleep-deprived people, such

as members of the military or

medical students. learn more

easily. "That said, while the

cognitive impairment may be

overcome, our findings indi-

cate that mild, chronic sleep

restriction may have long-

term deleterious effects on

neural function," they con-

The sleep-deprived ani-

daily life

maze.

pancreatic cancer." intake (350 micrograms per Source: Journal of the National Cancer Institute

rehydration salts

STAR HEALTH REPORT

The World Health Organisation (WHO) and Unicef announced a new formula for the manufacture of Oral Rehydration Salts (ORS). The new formula will better combat acute diarrhoeal disease and advance the Millennium Development Goal of reducing child mortality by two-thirds before 2015.

Diarrhoea is currently the second leading cause of child deaths and kills 1.9 million young children every year, mostly from dehydration.

The latest improved

without hospitalisation.

effective and cheapest way to

keep children alive during severe



X-ray showing a coin (a foreign object) lodged in the food tube (oesophagus)

If you swallow a foreign object, it will usually pass through the digestive system uneventfully. But some objects can lodge in the esophagus, the tube that connects throat and stomach. If an object is stuck in the esophagus, you may need to remove it, especially if it is

• A pointed object, which should be removed as quickly as possible to avoid further injury to the esophageal lining

• A tiny watch- or calculator-type button battery, which can rapidly cause local tissue injury and should be removed from the esophagus without delay

If a swallowed object blocks the airwav: • Use the Heimlich maneuver to try to

remove the object if the person is having trouble breathing. • Call for emergency medical

Dr Afzalur Rahman

Associate Professor,

National Institute of

Diseases (NICVD)

Cardiovascular

assistance.

To perform the Heimlich maneuver on someone else: • Stand behind the person. Wrap your arms around the waist. Tip the person forward slightly. Make a fist with one hand.

Position it slightly above the person's navel. • Grasp the fist with the other

hand. Press hard into the abdomen with a guick, upward thrust as if trying to lift the person up. • Repeat until the blockage is

dislodged. To perform the Heimlich

maneuver on yourself: • Place a fist slightly above your

navel • Grasp your fist with the other hand and bend over a hard sur-

face a countertop or chair will do. • Shove your fist inward and upward

I am a 43 years old man suffer-

ing from chest pain for the last

increases with increased work

load. It is noticeable that I am

also hypertensive, but I don't

take any medicine for the hyper-

Please give me advice on my

Thanks and best regards

couple of months. The pain

Dear doctor,

tension.

health issue.

Selim Milon

Answer:

gmilon@hotmail.com

days) and continued breastfeedformula contains less glucose and ing during acute episodes of sodium (245 mOsm/l compared diarrhoea protect against dehywith the previous 311 mOsm/l). dration and reduces protein and The lower concentration of the calorie consumption to have the new formula allows for quicker greatest impact on reducing absorption of fluids, reducing the diarrhoea and malnutrition in need for intravenous fluids and children.

previous formula

ORS.

The revised monograph for the making it easier to treat children new ORS formula will be pubwith acute non-cholera diarrhoea lished in the fourth edition of The ORS use is the simplest, most International Pharmacopoeia.

mg of zinc per day for 10 to 14

the relative risk ranges from 2.0 to 9.0 among persons who report a family history, depending on the type and number of relatives considered

heart disease. For heart disease,

Having coronary heart disease in the family could be linked to an inherited tendency for high blood pressure or high blood cholesterol levels. Alternatively there may be unknown genes causing coronary heart disease which is not related to obvious inherited risk factors. They often relate to lifestyle habits that are passed from one generation to the next. But these factors only explain part of the problem.

In familial hyperlipidaemia (increased blood level of lipids), a high blood cholesterol levels run in the family. It means that you have inherited a faulty gene that affects the way that excess cholesterol is produced by your body. This increases your blood cholesterol level, which increases your risk of atherosclerosis (the narrowing or furring of the coronary arteries). If one parent has the

gene then his or her children have

### Are you glucose intolerant?

We have all heard about the rise of diabetes, but a related disease called impaired glucoe tolenrance (IGT) has not received much recognition. IGT sufferers have a reduced ability to regulate sugar levels in their blood. "It's the same problem as diabetes but in a milder form," says Dr Guaden Galea, a public health physician at the regional office of the World Health Organisation in Manila. Here is what you need to know:

Risk factors: IGT is common among those who are overweight.

two hours later. "someone with

tes, or being sedentary or overweight.

#### Educate yourself about heart disease

Even if it runs in the family, reducing and controlling the risk factors will significantly reduce your risk of developing coronary heart disease. Talk to your relatives and find out everything you can about your family's history of heart disease. Eat an extra serving of fruits and vegetables, daily. Enjoy a brisk walk.

It is very important to tell your doctor if you have a family history of coronary heart disease. They vou should test vour blood cholesterol levels and your blood pressure. Depending on the results, they may suggest that you make lifestyle changes or start taking medication.

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Skimping on sleep can slow certain types of learning, a new study in rats shows, and the difficulty seems to arise from a lack of new brain neurons.

Rodents that got half their normal amount of shut-eye had a harder time remembering how to navigate a maze than well-rested rats, Dr Ilana Hairston of the University of California at Berkeley and colleagues found.

And while new neurons sprouted and survived in a part of the brain associated with spatial learning in the animals that trained in the maze and then slept adequately, this increased growth of brain cells did not happen in the sleep-restricted ani-

mals did better because they mals, Hairston and her team relied on their senses, rather reported. than their spatial memories. Lack of adequate sleep is to solve the maze, Hairston "definitely not good for the said She and her colleagues

brain in the long run," the investigator said. "It slows learning."

Researchers had previously shown that limiting sleep impairs learning that depends on the hippocampus, a section of the brain at work in mastering spatial tasks. Past investigators also had demonstrated that when hippocampal learning occurs, the survival of new brain cells there is increased.

Hairston and her colleagues set out to investigate whether slower learning linked with restricted sleep was related to reduced neuron survival.

Rats underwent a four-day training in a water maze. Because the exit was hidden. the animals had to rely on

cluded. In other words, Hairston said, "You need both experience and a good sleep afterwards in order to have

neurogenesis."

SOURCE: Journal of Neurophysiology

Causes of chest pain can vary from minor problems, such as indigestion or stress, to serious medical emergencies, such as a heart attack or pulmonary embolism.

As you are hypertensive and

So you need to consult a cardiologist to find the specific treatment option.

If there is no contraindication, s/he may suggest you some stress test like exercise tolerance test (ETT). The test will guide the There are varying causes of chest pain. The specific cause of chest further treatment pathway. pain is often difficult to interpret.

the pain increases with increased work load, it is most likely to be of cardiac origin

Moreover you need to avoid the Thank you.

modifiable risk factors for cardiac diseases like smoking, sedentary lifestyle etc.

You also need to check your cholesterol level and some other biochemical profiles as well.

It is not recommended to tell you the name of medicine without exploring the history and other clinical features. But it is important to continue some antihypertensive drugs and specific drug for your chest pain. So you must see a cardiologist for the clinical evaluation.

who have family members with diabetes, who have history of heart disease and/or stroke, and who have high blood pressure. "Being Asian, male and older increases the risk," says Paul Zimmet, director of the International Diabetes Institute. **Diagnogsis:** It is diagnosed

with an oral glucose tolerance test. A person fasts, then is given a drink containing 75 grams of glucose. Blood sugar is measured

tea wate OGTT ● C Basal ▲ △



cose over a longer period," says Galea

Treatment: While IGT cannot be treated directly, people with IGT are encouraged to increase their level of physical activity, achieve a healthy weight and follow a healthy, balanced diet. Drugs can helpslow IGT's development into diabetes.

If you think you are at risk for IGT, ask your doctor about having a glucose tolerance test.

Your Doctor