out by WHO as drug-resistant TB

"hotspots". Following a substan-

tial investment and a sustained

assault on MDR-TB, rates in

these two Baltic countries are

today stabilising and TB case

also remains unknown in some

pockets of the world. Only six

countries in Africa - the region

with the highest incidence of TB

in the world - were able to pro-

vide drug resistance data. Other

countries in the region could not

conduct surveys because they

lack the equipment and trained

personnel needed to identify

"Without these data, it is diffi-

cult to estimate the true burden

and trends of MDR-TB and XDR-

TB in the region. It is likely there

are outbreaks of drug resistance

going unnoticed and unde-

tected," said WHO TB expert

Abigail Wright, the principal

billion is needed for overall TB

control in low- and middle-

income countries in 2008, with

US\$ 1 billion for MDR-TB and

XDR-TB. But there is a total

finance gap of US\$ 2.5 billion,

including a US\$ 500 million gap

resistance demands that we fill

these gaps, as laid out in the

Global Plan to Stop TB, a

roadmap for halving TB preva-

lence and deaths compared with

1990 levels by 2015," said Dr

Marcos Espinal, Executive Secre-

tary of the Stop TB Partnership.

"The Plan also calls for another

imperative - sufficient resources

for research to find new diagnos-

tics, new drugs effective against

resistant strains and an effective

TB vaccine."

"The threat created by TB drug

for MDR-TB and XDR-TB.

WHO estimates that US\$ 4.8

drug-resistant TB.

author of the report.

The true scale of the problem

notification rates are falling.

e-mail; starhealth@thedailystarne

Climate change and our health

STAR HEALTH REPORT

STAR HEALTH DESK

Multidrug-resistant tuberculosis

(MDR-TB) has been recorded at

the highest rates ever, according

to a new report, says World Health

Organisation (WHO). The report

presents findings from the largest

survey to date on the scale of drug

drug resistance in the world", is

based on data collected between

2002 and 2006 on 90000 TB

patients in 81 countries. It found

that extensively drug-resistant

tuberculosis (XDR-TB), a virtu-

ally untreatable form of the

respiratory disease, has been

between HIV infection and

MDR-TB. Surveys in Latvia and

Ukraine found nearly twice the

level of MDR-TB among TB

patients living with HIV com-

pared with patients without HIV.

Based on the analysis of the

survey data, WHO estimates

there are nearly half a million

new cases of MDR-TB a year,

which is about 5% of nine million

new TB cases of all types. The

highest rate was recorded in

Baku, the capital of Azerbaijan,

where nearly a quarter of all new

TB cases (22.3%) were reported

as multidrug-resistant.

The report also found a link

recorded in 45 countries.

The report, "Anti-tuberculosis

resistance in tuberculosis.

and emerging threat to public health, and changes the way we must look at protecting vulnerable populations.

a wide range of implications for human health. Climate variabil-Climate change is a significant ity and change cause death and disease through natural disasters, such as heatwaves, floods and droughts. In addition, many important diseases are highly The most recent report of the sensitive to changing tempera-Intergovernmental Panel on tures and precipitation. These Climate Change confirmed that include common vector- borne there is overwhelming evidence diseases such as malaria and that humans are affecting the dengue; as well as other major global climate, and highlighted killers such as malnutrition and

New survey finds highest rates of

Proportions of MDR-TB among

new TB cases were 19.4% in

Moldova, 16% in Donetsk in

Ukraine, 15% in Tomsk Oblast in

the Russian Federation, and 14.8%

in Tashkent in Uzbekistan. These

rates surpass the highest levels of

drug resistance published in the

lastWHO reportin 2004. Surveys in

China also suggest that MDR-TB is

"TB drug resistance needs a

frontal assault. If countries and

the international community fail

to address it aggressively now we

will lose this battle," said Dr

Mario Raviglione, Director of the

WHO Stop TB Department. "In

addition to specifically confront-

ing drug-resistant TB and saving

lives, programmes worldwide

must immediately improve their

performance in diagnosing all TB

cases rapidly and treating them

until cured, which is the best way

to prevent the development of

survey includes analysis of XDR-

TB. However, because few coun-

tries are currently equipped to

diagnose it, limited data were

successes. Thirteen years ago,

Estonia and Latvia were singled

The report also points to some

available for this report.

For the first time, the global

drug resistance."

Frontal assault needed

widespread there.

drug-resistant TB to date



diarrhoea. Climate change considered to be particularly already contributes to the global burden of disease, and this contribution is expected to grow in the future.

The impacts of climate on human health will not be evenly distributed around the world. Developing country populations, particularly in Small Island States, arid and high mountain zones, and in densely populated coastal areas, are future climate change.

vulnerable.

Fortunately, much of the health risk is avoidable through existing health programmes and interventions. Concerted action to strengthen key features of health systems, and to promote healthy development choices, can enhance public health now as well as reduce vulnerability to

Cut salt to keep children thin: study

that children eat could provide a short-cut to keeping them slim, British research- ate and drank weighed. ers reported. They found that children

who are less salt drank fewer sugary soft drinks and could reduce their risk of high blood pressure and obesity. Writing in the journal

Hypertension, they said this could lower rates of heart attack and stroke in later life.

"Sugar-sweetened soft drinks are a significant source of calorie intake in children," said Dr Feng He of St George's University of

sugar-sweetened soft drink consumption is related to obesity in young people," He added in a statement.

"If children aged 4 to 18 years cut their salt intake by half, there would be a decrease of approximately two sugar-sweetened soft drinks per week per child, so each child would decrease calorie intake by almost 250 kilocalories perweek."

One pound of body weight equals 3,500 calories.

He and colleagues analysed data from a 1997 national survey of more than 2,000 people between 4 and 18 in Britain. More than

Reducing the amount of salt 1,600 boys and girls had salt and fluid intake recorded in a diary, with everything they

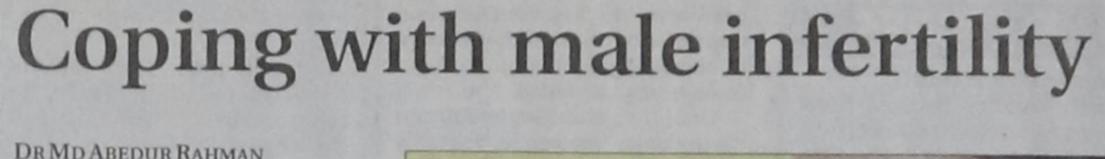
We found that children eating a lower-salt diet drank less fluid," He said. "From our research, we estimated that 1 gram of salt cut from their daily diet would reduce fluid intake by 100 grams per The children who ate less

salt also drank fewer sugarsweetened soft drinks, and He predicted that a 1 gram reduction in salt would reduce sugar-sweetened soft drink consumption by 27 grams a day, after factoring "It has been shown that in age, gender, body weight and level of physical activity. He said parents should

check labels, choose low-salt food products and not add salt during cooking and at the table. "Small reductions in the

salt content of 10 percent to 20 percent cannot be detected by the human salt taste receptors," she said.

According to the American Heart Association, healthy adults should reduce their sodium intake to less than 2,300 milligrams or 2.3 grams per day. This is about 1 teaspoon of salt.



DR MD ABEDUR RAHMAN

"Normal" sperm count, as defined by the World Health Organisation is characterized by:

• The concentration of spermatozoa should be at least 20 millionperml

• The total volume of semen should be at least 2ml

• The total number of spermatozoa in the ejaculate should be at least 40 million

• At least 75% of the spermatozoa should be alive (it is normal for up to 25 per cent to be dead) • At least 30% of the spermato-

zoa should be of normal shape and form • At least 25% of the spermato-

zoa should be swimming with gapid forward movement • At least 50% of the spermato-

zoa should be swimming forward, even if only sluggishly

These numeric amounts the averages. Having a sperm count below these numbers does not guarantee that a man will be unable to be a father of a child; likewise, having a sperm count higher than these numbers does not guarantee that a man will be able to be father of a child.

Some common causes for low

sperm count are • Infected semen

 Heat that minimises sperm count. Some ways of loosing sperm due to heat are by wearing tight underpants, bathing in hot water, sitting in hot tub for long hours, being overweight

• Repeated ejaculation over a short duration of time.

Increased masturbation

Smoking

• Increased alcohol consump-

• Excessive physical or mental exertion Zinc deficiency • Anabolic steroid use

Deformed genitals

• Prostrate gland disorders • Harmful or toxic pollutants

To increase sperm count Exercise. Regular exercise

will help reduce stress, but be careful. Excessive exercise can cause harm, as can certain exercises that may negatively impact the testicles, such as bicycling. · Ejaculating less often. The

more often a man ejaculates, the less dense the semen will be. between ejaculations. · Refrain from smoking and

drinking alcohol. Massage body with herbal

oil, which may improve blood circulation. · Have sex in the early morn-

ing or afternoon. It is believed that sperm levels are often highest in the morning.

· Avoid tight underwear, saunas and whirlpools - all of which may increase the temperature of the testicles.

the male reproductive system. Eat pumpkin seeds to help maintain a healthy reproductive sys-

Supplements

• Use natural supplements

• Maintain a high protein, low

and vitamins that may assist with

fat diet, rich in vegetables and

whole grains. Avoid bitter and

spicy foods, eat pumpkin seeds.

They are naturally high in zinc

and essential fatty acids which

are vital to healthy functioning of

sperm count.

There are few supplements that Maintain a gap of three days may increase sperm count and/or motility. Allow 3-4 months for the supplements to

> They are Arginine, Coenzyme Q10, Flaxseed oil, L-carnitine, multivitamin-mineral supplements, Selenium, Vitamin B-12, Vitamin C, Vitamin E, Zinc. Ask your physician for these supple-

The writer is a teacher in Dhaka Medical College. E-mail: abeddmc@yahoo.com











PHOTO: MD RAJIB HOSSAIN

Different initiatives to improve the health condition of the farmers at a health camp in Alampur, Sirajganj organised jointly by Hridoy-e Mati o Manush and Japan Bangladesh Friendship Hospital, Dhaka as a part of their series of health camps all over the country.

Bringing healthcare to doorsteps of farmers

MD RAJIB HOSSAIN, back from Sirajganj them.

Like other basic needs, healthcare for our farmers has been disgruntling over the years. Yet, it is the most unaddressed requirement which needs to be focused urgently.

identified by the experts about the lack of pathways for the appropriate healthcare of farm-

ers and their communities. inaccessible to most of our 1.5 crore farmers. Most of them do not know the ways of protecting themselves from occupational hazards or ailments. A very few of them are aware of using simple and come to hospital at the end

accompany some diseases that remain hidden in their lifetime; even after their death.

for many of us whether they die Serious concerns had been or live. But in a real sense it matters a lot as our health and food security directly and indirectly depends upon their health. A health services like medical very few people care about it Basic healthcare services are while their health is more impor-

tant than many of ours. popular agriculture-based documentary programme of Channel i and Japan Bangladesh Friendironically, they are forced to work taken a joint programme to raise country ever. by poverty with serious ailments awareness regarding primary

While working hard in harsh campaign, they organise health is handicapped due to cataract (a communities. conditions, our farmers often camps in different regions in the country to provide healthcare to the poor and marginalised farmers from the beginning of the disease as his fate and never Apparently it does not matter year. They have already served thought of going even to a district farmers of six districts and they have a plan to complete their treatment. services by the year 2008.

check-up, consultation and surgeries by specialised doctors our crops and so on. We are often to the farmers. Recently a special Hridoy-e Mati o Manush, a unit with four-bed entitled 'Jibon Kheya' was opened at JBFH in the city with a view to providing healthcare services including ship Hospital (JBFH) have come laboratory test, medicine and ration surgery with the help of occupational diseases. Most address this problem. They have first initiative of its kind in the runmore programme like this.

healthcare, preventive measures from Alampur of Sirajganj is a tor of Channel i expressed that do not wear any protective barstage of any disease when a very to protect occupational hazards poor farmer. He came to a free their project is aimed at address-

farmers. Along with the advocacy and Hridoy-e Matio Manush. He healthcare facilities of our farmer with air and enter the body via condition where lens of the eye becomes opaque) in his both eyes. Now he is blind. He took the hospital thinking of the costly

They are providing extended body cares of our health; we are deprived in case of health as we are in case of fertiliser, fair cost of harassed and overlooked by the local healthcare provider".

Like Kalam, 24 farmers of Sirajganj, who are blind due to cataract will undergo sight restotools to prevent themselves from forward with several initiatives to surgery at free of cost. This is the the programme. Kalam urged to

Shaikh Siraj, Director of this 50-year-old Kalam Sorder programme and also the Direclittle options are left to save and health education among health camp organised by JBFH ing many inequities existent in These poisons can easily mix wealthy.

"We have been working to

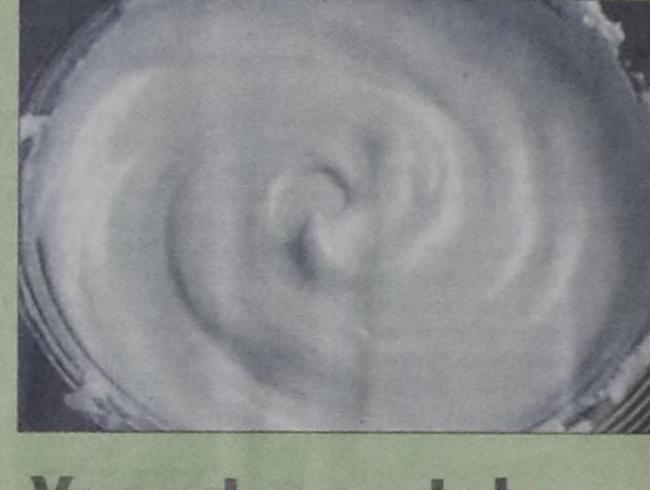
raise awareness among farmers regarding the cost-effective health services and increase the access to affordable healthcare for the farmers. We are arranging basic healthcare workshop in He expressed his grief, "No- villages to provide them health education. We need to adopt affordable healthcare that provides more than just catastrophic coverage, which is the vital issue on the minds of farm families. We also try to build support for legislative initiatives that might improve quality and cost of coverage for farmers" he said.

"The problems of physical and mental health of the farmers are particularly related with their occupation. Maximum farmers using insecticides in their fields rier like gloves, masks or shoes.

lung or it can directly pierce the unprotected eroded skin. If we could make them understand regarding these occupational diseases, we could improve their health status" he pointed out.

Currently there is no hospital that has special healthcare packages or no subsidiaries on health services for the farmers who are working hard to serve our entire population. Mr Siraj urged integrated efforts and supports by all to make healthcare accessible to the farmers.

Farmers, the backbone of our economy are facing serious crisis in healthcare. We need to stand beside the ailing farmers to make our economy healthier. Our simple and collaborative effort could help overcome the crisis and make them healthy and



Yogurt may take the bite out of gum disease

Regularly eating yogurt and disease had a lower intake mouth, Japanese researchers report.

Dr Yoshihiro Shimazaki and colleagues found that consuming yogurt and lactic acid drinks was significantly associated with better periodontal health. "But, milk and cheese were

not," Shimazaki said. Periodontal disease is a chronic bacterial condition associated with receding gums and tooth loss in adults. Outside of regular brushing and flossing, effective measures to allay this disease are limited Shimazaki, of Kyushu University in Fukuoka, Japan, and colleagues note in the Journal of Periodontology.

Previous research identified a lower occurrence of periodontal disease among people who eat high amounts of dairy products, but did not identify which dairy products were most beneficial, the researchers report.

Shimazaki's team assessed the severity of periodontal disease in 942 men and women, aged 40 to 79 years, and their intake of milk, cheese, and lactic acid foods.

They found that people with generalised (more advanced) periodontal

other foods with lactic acid of lactic acid foods than may be good for your people with localised (less advanced) periodontal Compared with individ-

uals reporting no lactic acid food intake, those eating 55 grams or more of yogurt or lactic acid drinks a day had significantly fewer markers of severe periodontal disease, the investigators note, once they made allowances for factors such as age, gender, smoking, alcohol intake, frequency of tooth brushing, blood sugar and cholesterollevels. "The beneficial effect on

periodontal disease might be based on the probiotic effect of lactobacilli found in lactic acid foods," Shimazaki told. Probiotics are living microorganisms, such as the Lactobacillus bacteria in yogurt that are beneficial to one's health.

The investigators suggest follow up studies that further analyse the probiotic effect of lactic acid foods by assessing the distribution of lactic acid bacteria in subjects' mouths based on the lactic acid foods they eat. Future research should also examine whether continuing intake of lactic acid foods alters the progression of periodontal

Source: Journal of Periodontology