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Dengue alert: Precaution and prevention

MD RAJIB HOSSAIN

The rainy season provides a fertile environment for Aedes mosquito to grow faster and transmit the dengue virus more rapidly. The incidence of dengue simple protective measures and following proper guideline can reduce the occurrence, mortality and morbidity caused by the disease.

Dengue (pronounced dengay) fever usually starts suddenly with a high fever, rash, severe headache, pain behind the eyes, muscle and joint. The severity of the joint pain has given dengue the name "breakbone fever." Nausea, vomiting, and loss of appetite are common. The rash legs three to four days after the peculiar nature of the fever is that

afebrile period of 2-3 days stays when patients feel better and after that the temperature rises again. Complete recovery may take in a variable period from 15 days to one month.

Dengue fever has several fever has reportedly increased in categories like dengue the country alarmingly. But undifferentiated fever (similar to viral fever), classical dengue fever, and dengue haemorrhagic fever with or without shock.

Most dengue infections result in relatively mild illness, but some can progress to dengue hemorrhagic fever. With dengue hemorrhagic fever, the blood vessels start to leak and cause bleeding from the nose, mouth, and gums. Bruising can be a sign of bleeding inside the body. Without prompt treatment, the blood vessels can collapse, typically begins on the arms or causing shock (dengue shock syndrome). Dengue beginning of the fever. The hemorrhagic fever is fatal in about 5 percent of cases, mostly it lasts up to 7 days and then a among children and young of virus and serological tests).



A child suffering from dengue fever rests at a hospital

clinical symptoms and specific blood tests (PCV, platelet count, white blood cell count, isolation

flexible than gas-permeable

Blood tests is usually advised Dengue fever is diagnosed by after 3 days when it becomes positive.

> As dengue is caused by a virus, there is no specific medicine or antibiotic to treat it. The

concentration of the blood if the patient is unable to maintain oral intake. A platelet transfusion is indicated in cases if the platelet the mosquitoes carrying the level drops significantly (below virus that causes dengue. We 10,000) or if there are significant

professor of medicine, BIRDEM advised to take paracetamol only for fever and pain. He warned not up their efforts to reduce the to take any aspirin and or other non-steroidal antiinflammatory drugs (NSAID) or condition of the patient.

high-grade fever, vomiting,

mainstay of treatment is abdominal pain, rashes on body supportive therapy. Increased and headache are strongly oral fluid intake is recommended recommended to consult to prevent dehydration. physicians before taking any Supplementation with drug as self-medication may intravenous fluids may be result in fatal outcome of the necessary to prevent patient. Hospital care is dehydration and significant necessary for all patients with dengue haemorrhagic fever.

The prevention of dengue requires control or eradication of should empty stagnant water from old tires, trash cans, and Prof. Dr. Khaja Nazimuddin, flower pots and from air conditioner where the mosquito breeds. Government should step number of mosquitoes to keep the disease in check.

For personal protection, use antibiotic during high-grade mosquito net, repellant sprays fever, because intake of these that contain DEET. The Aedes drugs can aggravate the aegypti mosquito bites more during daytime i.e. between Patients with symptoms of sunrise and sunset. So be careful more in the day.

A child suffering from severe pneumonia and being treated at Mitford Hospital, Dhaka, Bangladesh is seen in the photo. A recent study published in The Lancet shows that allowing local health facilities, not hospitals, to treat child pneumonia can improve care in developing countries.

Care at first-level facilities for children with severe pneumonia

pneumonia to be treated at children) died. local, first-level facilities instead of hospitals means contained 1271 children much higher proportions of treated at the facilities postchildren are treated correctly. implementation of the These are the conclusions of modified guidelines. Of authors of an article these, only 8% were referred published early online in a to hospital, and 90% received recent edition of The Lancet.

Management of Childhood Illness (IMCI) guidelines, developed in the mid-1990s, recommend that children with severe pneumonia training and supervision, attend hospital. However, in could allow safe and effective many poorer settings, management of severe children who are referred do pneumonia, especially if not attend hospital and do compliance with referral is not receive adequate care. Dr difficult because of Enayet Karim Chowdhury geographic, financial, or and Dr Shams El Arifeen, cultural barriers." International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B), and Croatian Centre for Global colleagues studied the safety and effectiveness of modified guidelines that allowed Dr Harry Campbell, children to be treated locally University of Edinburgh in first-level facilities, with referral to hospital only for welcome a substantial

the most severe cases. The study used 10 firstlevel health facilities in developing countries to Matlab, rural Bangladesh, address crucial gaps in that had been using the previous IMCI guidelines, and assessed children from two cohorts. The first was 261 children who attended the facilities between May 2003 and April 2004, before implementation of the modified guidelines. Of these, 94% were referred to hospital, and only 36% ended up receiving the appropriate

Allowing children with severe care, while 1-1% (three

The second cohort appropriate care, while the The Intergrated mortality was 0.6% (seven deaths).

The authors conclude: "Local adaptation of the IMCI guidelines, with appropriate

In an accompanying Comment, Dr Igor Rudan, Health, University of Split Medical School, Croatia, and Medical School, UK, say: "We increase in investment in controlled trials in information—such as correct case management of severe pneumonia in children with HIV infection-and in health-policy and systems research to identify effective ways to improve and scale up implementation of interventions against pneumonia."

Source: The Lancet

CONTACT LENSES

What to know before you buy

DR TAREQ SALAHUDDIN

Here are some pointers on safe disinfection, storage and handling of contact lenses, followed by a rundown of contact lens types.

Avoiding eye infections

Wearing contact lenses increases your risk of corneal infection. Some of the added risk is unavoidable: All types of contact lenses reduce the amount of

oxygen that reaches your cornea

the clear tissue that lies over the

pupil and iris and less oxygen

This reduction in corneal

oxygen makes proper cleaning

and disinfection all the more

and take them out before you go

to sleep. Infections are more

common with extended-wear

• Use multipurpose contact

important. Here are some tips:

lens solutions with caution.

can promote infection.

contacts, worn continuously, than with daily-wear contacts.

· Wash, rinse and dry your

you wear.

checked or try a new set if you

Types of contact lenses and

Contact lenses are made of many

different types of plastic, but in

general, they fall into two main

groups: soft contact lenses and

Soft contact lenses are thin,

contact lenses, so they are more comfortable and easier to get hands thoroughly before used to. Soft contact lenses are flexible handling your contacts. · Follow your eye-care lenses, more comfortable, with

professional's instructions for extended-wear and disposable taking care of your lenses. Make options available. They have sure you use lens-care products shorter adjustment period and formulated for the type of lenses stay in place better, even with vigorous physical activity. • Replace your contact lenses Disadvantages include less durability, requirement of more as recommended. If one or both frequent replacement. They are not as effective in correcting

some vision problems, such as high degrees of astigmatism. Gas-permeable lenses are more durable, can correct optimal vision problems for many conditions, need less frequent replacement, have greater oxygen permeability. They are better for eye health. On the other hand these lenses are less comfortable initially and require adjustment period. Readjustment may be necessary any time you stop wearing them for an extended period. They may slip off the center of your eye

discomfort and blurred vision. lenses bother you before you are Getting the right fit due to replace them, get them

If you decide you want contact lenses, have a thorough eye examination and fitting by an experienced professional. Follow-up exams are important to monitor any changes to your vision and to update your prescription. If you are a regular contact lens wearer, see your doctor annually for an eye exam and a contact lens evaluation gel-like lenses conform to the more often if you have any shape of your eye. They are more problems.

more easily and may lead to

Not bad or mad, but sick

bleeding.

Like all diseases, addiction (to alcohol or drugs) has certain characteristics. Details may vary from person to person, but the pattern and symptoms are predictable. It has a devastating effect on all areas of the affected person - physical, mental, social, financial, emotional and spiritual. His ethical or value system is greatly eroded — he easily lies, cheats, manipulates or steals to maintain his habit. It relationships with family, colleagues and friends.

Modern research has identified a genetic factor in the disease and scientists have isolated certain chemicals or neurotransmitters in the brain, which are directly related. Parents usually blame their child's bad company. Alcoholics

themselves give a variety of vain attempts to control or cover excuses, such as too much stress up his habit. The family at work or too little love and members are in desperate need

Addiction is a progressive understanding. disease. It starts with an occasional glass of beer, diabetes, a regular treatment gradually increases quantities to achieve the same high, since the body develops tolerance towards

adversely affects his addiction who do not take drinks manipulate and deceive in their of proper help, support and

Alcoholism is treatable. Like schedule is required to keep the disease in check. An abstinent alcoholic cannot take a drink and hopes to continue a controlled pattern. He will inevitably return to obsessive and compulsive drinking. Total abstinence is the

It is a highly relapse-prone disease. A rigorous maintenance schedule is essential in order to

The alcoholic or drug addict may appear to be a bad or mad person. But the fact is that s/he is sick and needs help.

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Journal and web site on geriatric cardiology launched

In order to curb the increasing Abdul Malik was present as the incidence of geriatric diseases, chief guest and launched the Bangladesh Society of Geriatric new web site of geriatric Cardiology and Society of cardiology (www.sgcbd.org). The Cardiovascular Ultrasound, Bangladesh Chapter have taken a joint initiative for easy access to information regarding geriatric problems by launching a journal entitled "Cardiovascular Journal" and a web site, says a press release.

The launching ceremony was held recently in a local hotel in the city. Prof. Abdullah Al Shafi Mojumder, Editor of the journal presided over the programme. National Prof. Brig. (Rtd)

site will provide all the information and articles regarding various cardiac ailments like chest pain (angina), hypertension, heart attack, heart blocketc.

Prof. Abu Zafar, Prof. M. A. Zaman, Prof. Sirajul Haq, Prof. Hasina Banu, Prof. Shah Kermat Ali and other renowned cardiologists and cardiac surgeons participated this programme and shared their

MEDICAL MIRACLE

Baby pronounced dead lives after hours in cooler

doctors "came back to life"

600 grams at birth, spent at things in the medical world least five hours inside one of we call it a miracle, and this is the hospital's refrigerated probably what happened," storage units, before her hospital deputy director parents, who had taken her Moshe Daniel said. to be buried, began noticing some movement.

felt she was moving. We treatment, but doctors were didn't believe it at first. Then not sure how long she will she began holding my live. mother's hand, and then we saw her open her mouth," internal medicine, told said 26-year-old Faiza Israel's Channel 10 that the

after doctors at Western helpedhersurvive.

REUTERS, Jerusalem

A stillborn Israeli baby who her mother's pregnancy was pronounced dead by because of internal bleeding. recently after spending herpregnancy. hours in a hospital refrigerator.

explain this, so when we The baby, weighing only don't know how to explain

Galilee hospital in northern

Israel were forced to abort

Magdoub was 23 weeks into

"We don't know how to

The baby was then taken to the hospital's neonatal "We unwrapped her and intensive care unit for further

Motti Ravid, a professor of Magdoub, the baby's mother. low temperature inside the The baby was pronounced cooler had slowed down the dead several hours earlier, baby's metabolism and likely

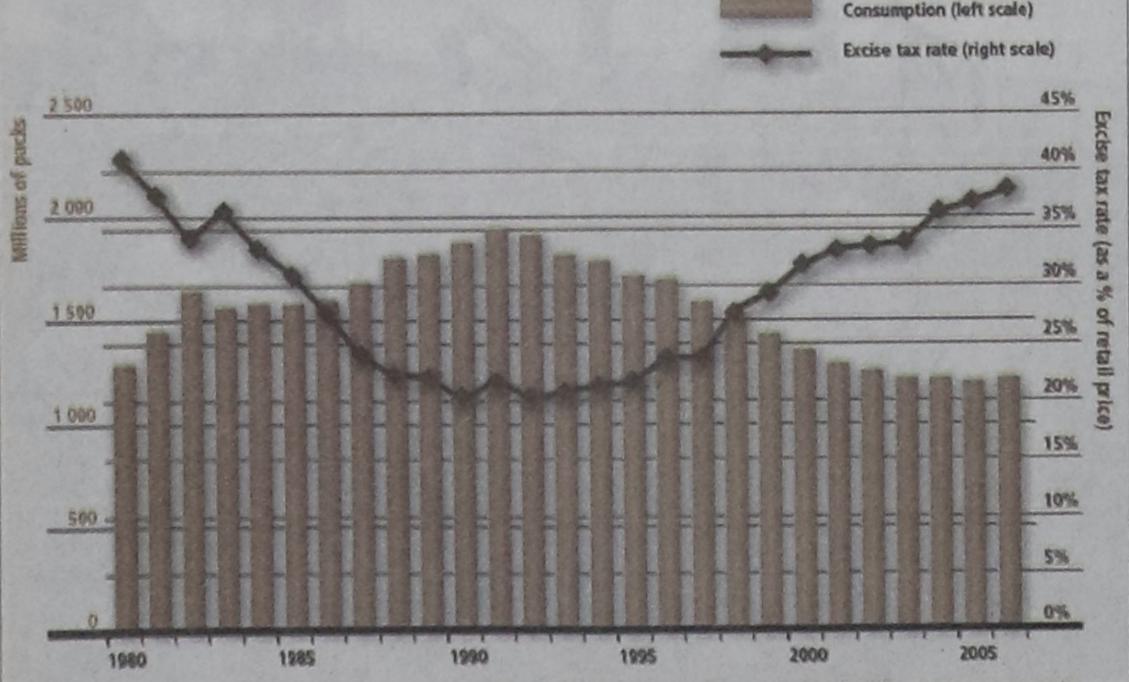
TOBACCO TAXES REDUCE CONSUMPTION

Choose daily-wear contacts, gas-permeable contact lenses.

have a supply.

their comparison

Relationship between cigarette consumption and excise tax rate in South Africa



Source: van Walbeek C. Tobacco excise taxation in South Africa: tools for advancing tobacco control in the XXXx century: success stories and lessons learned. Geneva, World Health Organization, 2003. Additional Information obtained from personal communication with C. van Walbeck, Inttp://www.enho.int/tobacco/training/success_stories/en/best_practices_south_africa_taxation.pdf, accessed 6 December 2007).

DR SATPARKASH

understanding at home.

the drink or drug.

Alcoholism is a family disease too. It affects the entire family, especially the wife, parents and children. They are victims of or drugs. They experience similar negative feelings as the addictfear, anger, hurt, confusion, guilt, shame, hope followed by despair. Even their behavioural patterns become similar. Just as the addict tries various control strategies to reduce or stop drinking, the family members also begin to lie,

only way. stay sober.

EXPERIENCE FROM NEPAL

Ensuring a worm-free childhood

STAR HEALTH DESK

At a crowded health clinic in Kathmandu, parents bring their children to receive albendazole for deworming and a vitamin A supplement to boost nutrition. Nepal's pre-school worm control programme takes place every six months and is delivered by nearly 50,000 female village volunteers.

A Nepali study team aims to test the drug's ongoing effectiveness among local school-age children. They set up an operations base in the Dhading district. Combing through school registers in three or four schools a day, the team identifies two groups of children in each school.

Children participating in the study are given parent consent forms to fill out and return. One test group involves children between ages five and eight, and the other between ages 11 and 14. The younger children had regular doses of albendazole throughout their pre-school years. The older children, who were already in school when the pre-school control programme began in 1999, have never been treated.

Every child - regardless of his or her age group - receives a stool container labeled with a serial number. Study team members clearly explain how to fill the container with a stool sample and bring it back to school the next morning. The following day, the team returns to the school and lab technicians carefully check that each child has are re-tested in exactly the same



A child is taking Albendazole at a "In-school deworming programme" in Nepal.

child then receives one tablet of albendazole to take with water. The team then drives back to its makeshift laboratory to prepare and examine the stool samples. During the first 10 days of fieldwork, more than 2000 samples are analysed.

Lab technicians work late into the night to examine all of the stool samples within the same day. Next to each child's identity number, the number of and one of the easier ones to hookworm, whipworm and roundworm eggs found in his or her sample are recorded.

interval to assess the curative effect of the drug and avoid positive samples due to reinfection) the team returns to the schools. Children identified as infected during the first round

provided a stool sample. Each way as before and then the difference in the number of eggs between the two rounds is compared. Data analysis done in Nepal

and by WHO show that the albendazole is still effective despite years of intensive use. The result is good news for

child health. Albendazole is one of only four available WHOrecommended drugs for controlling intestinal worms, administer. In-school deworming programmes that seamlessly start when pre-After three weeks (the ideal school programmes end can help ensure a worm-free childhood.

This programme can be replicated in the schools of developing countries.

Source: WHO