How to Prevent Coronary Heart Family planning as a human right The world has accepted family planning as a human right since 1968 Disease and Heart Attacks

S a result of positive actions against risk fac-

tors for coronary heart disease (tobacco smoking, elevated blood cholesterol level, obesity, physical inactivity, hypertension and diabetes), the past decade has seen a notable decline in the mortality rates for coronary heart disease in several developed countries. The rising trend for coronary heart disease, morbidity, and mortality in developing countries can be halted by timely individual and community action.

Here are the basic rules to avoid coronary heart disease and myocardial infarction (heart attack):

1. DO NOT SMOKE: Even if you have been smoking for many years, it is an excellent idea to cease smoking altogether and immediately, since the risk for coronary heart disease (CHD) can be reduced to zero within forty-eight hours (unlike the risk of lung cancer from smoking, which takes ten years or longer to revert to normal).

Remember there is no "safe" cigarette. A filtertip or "low-tar low nicotine" brand of cigarette does not help, since smokers, who change over to these brands of cigarettes, appear to inhale more, thereby maintaining their intake of nicotine, while actually increasing the retention of the gas phase products.

Nicotine increases sympathetic discharge and is related experimentally to thrombosis, endothelial damage and cardiac arrhymias (irregularity in the

vascular damage or act through

relative hypoxia(lack of oxygen). CONTROL OF TOBACCO SMOKING IS CENTRAL TO ANY EFFORT FOR THE PRE VENTION OF CORONARY HEART DISEASE IN AN INDI VIDUAL OR A COMMUNITY.

(pulses), high in fibre. Avoid saturated fats like ghee and butter; cream, full cram milk. eggs, cheese, red meat (beef and mutton), brain, ice-cream. chocolates, pastry, cake, sweets made with full cream milk. are gaining weight cut down on

Prof Habibuz Zaman

3. AVOID OBESITY: If you



Control of tobacco smoking is central to any effort for the prevention of coronary heart disease.

2. TAKE A LOW FAT, LOW CHOLESTEROL DIET: Maintain your serum cholesterol level below 200mg per 100ml blood. polyunsaturated vegetable oil for cooking (eg.corn oil, soyabean oil, sun-flower oil). Take plenty of voorstables seasonal fruits, whole

your total food intake, especially those with high calories - fats, commercially baked products and sweets. Weight reduction The diet in rural Bangladesh is also helps in the control of generally satisfactory. Use hypertension, diabetes and reduces the total blood cholesterol level

4. TAKE REGULAR PHYSI CAL EXERCISE PREFERABLY

blood circulation to the heart muscle and opens up many tiny vascular channels, which normally remain collapsed. A brisk walk for at least twenty minutes a day is recommended Regular physical exercise also helps control incipient diabetes and hypertension.

5. MAINTAIN YOUR BLOOD PRESSURE, TO LEVELS WITHIN NORMAL LIMITS OF 140/80 MM HG: If hypertensive, control use of table salt, reduce weight, take regular exercise, if still uncontrolled, consult a physician and take medicines regularly - if necessary for life-

6. IF DIABETIC, MAINTAIN BLOOD SUGAR LEVELS WITHIN NORMAL LIMITS (Fasting blood sugar; 4.4-6.6 mma; 1/1 or 80-120 mg per 100 ml blood): If uncontrolled with dieting, regular physical exercise and weight reduction. consult a physician and use medicines regularly, if so required.

A routine annual medical check-up helps to identify apparently healthy individuals with raised blood pressure and incipient diabetes, before these diseases are clinically manifested, many years before complications of hypertension and diabetes have developed.

7. AFTER RECOVERING FROM A HEART ATTACK OR ANGINA ON EXERTION, FOL-LOW RULES MENTIONED ABOVE. ALSO TAKE MEDICINES, AS PRESCRIBED: 150mg soluble aspirin (after meal), once a day, is known to reduce chances of subsequent heart attacks, by preventing the process of clot formation within the coronary artery. Exercise with caution, under medical

8. IF YOU USE ORAL CON-TRACEPTIVES, DO NOT

9. REMAIN CALM AND COMPOSED: AVOID ANGER AND EXCITEMENT: "Speak your truth quietly and clearly; and listen to others." 10. DO NOT DRIVE YOUR-

SELF TOO HARD: "Beyond a wholesome disci-

pline, Be gentle with yourself.

You are a child of the uni-No less than the trees and the

You have a right to be here."

(Quotations from an anony-

As a result of positive actions against the important risk factors for coronary heart disease (tobacco smoking, elevated blood cholesterol level, obesity, physical inactivity, hypertension and diabetes), the past decade has seen a notable decline in the mortality rates from CHD in several developed countries. The rising trend for coronary heart disease (CHD) morbidity and mortality in developing countries like Bangladesh can be halted by

CORRIGENDUM The article entitled 'Can Heart

individual and community ac-

Attacks be Prevented ?'. on this page published was erroneously credited to wrong authorship. The article was originally written by Prof Habibuz Zaman. The error is

DEVICE HELPS **AMPUTEES**

the Sabolich Prosthetic and Research Centre in the United States will not only help amputees walk, but will also help them 'feel" their feet.

The device consists of pressure sensitive sensors which are implanted in the prosimpulses to corresponding tient's skin in the socket of possible for the foot to

John Sabolich, president of

the Centre, who designed the device, says whit constant use the wearer's brain will begin to translate the sensation in the thigh as a feeling in the foot.

In his earlier experiments, Sabolich, who has spent more than six year looking for a way to enable amputees feel the floor, used a sound system in which pressure on the prosthetic set off a beeper. The sound made the wearer aware of when the foot touched the floor, and when the sound was ered, the patients often stum-

thetic foot. These transmit turned off, Sabolich discovsensors placed against the pa- bled. the prosthetic leg, making it sign a device that not only

The world has accepted family planning as a human right since 1968. The Charter of Human Rights says "parents have a basic hu nan right to determine freely and responsibly the number and spacing of their children." Yet only half the couples in developing countries have access to family planning services.

People want fewer children

When the ingredients of life provide security and autonomy people opt for family planning - if it is available

- In developing countries in the 1970s parents wanted on average 4.5 children In the 1980s, the figure went down to 3.5. But people are still having more children
- If for the next hundred years everyone were able to make their perfect choices in family size, world population would be smaller by about 2 billion people.
- The difference between good family at all could be over 4 billion in the same

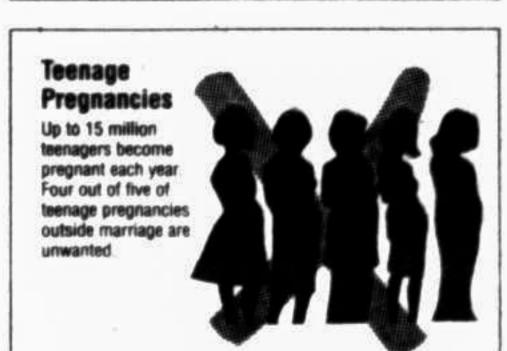




Good for mothers, good for children

Every year half a million women die in pregnancy or childbirth. Nearly all are in developing countries. The youngest and oldest mothers, those who have fiad man pregnancies or had them too close together are much more at risk. Avoiding pregnancy could save 200,000 of

Family planning programmes help children survive when they are born two or more years apart. The first child second or third child of a woman aged 20 to 24.



Culture and religion

Cultural and religious attitudes need be no bar to family planning. But programmes must be appropriate to the community

 In Muslim Bangladesh, many women leave their homes only In Catholic Mexico, birth rates dropped by 20% in a decade after a national family planning programme was

 In Buddhist Thailand, fertility dropped from an average of 6.5. children per woman to 3.5 in only 8 years. Nearly 70% of couples



NEW HOPE FOR REGENERATION OF HAIR

recent finding by researehers at the University of of Medicine and the New York University Medical Centre in the United States has significant implications for the study of baldness, hair loss and the regeneration of hair.

The researchers have found that the source of new cells does not lie at the base of the hair, as had been earlier presumed, by just below the scalp. This discovery of the origin of hair could help them understand hair loss better. Hair immature cells, known as stem needs constant regeneration cells, and other types of cells. pushes its way up and out and scientists believed that for Identifying stem cells of any

that to happen, beneath each hair, there must be a group of immature cells ready to grow and mature and form a new Until now researchers be-

lieved that the hair bulb at the base must contain the cells governing growth, partly because the bulb is situated above an important component of hair growth known as the dermal papilla. The dermal papilla consists of connective tissue and blood vessels which release hormones and send chemical signals to activate hair growth.

The recent breakthrough was made when scientists devised sophisiteated techniques to discriminate between the

tissue type is extremely difficult, but having overcome that problem, the scientists discovered that stem cells of a hair are situated a fraction of a millimetre above the bulb on the side of the hair follicle in a protrusion called the hair

The experiments have also shown that hair growth is more complicated than earlier thought. It is now believed that a new hair is born when the dermal papilla releases a signal to the stem cells in the bulge drawing them towards it. The stem cells than interact chemically with the dermal papilla resulting in cell division and maturation and finally the birth of a new hair which slowly

"FEEL" FEET

A new device designed at

This inspired him to de-"told" the wearer that the foot communicate" with the had made contact with the floor, but actually enable the feet to "feel" the floor.

Puritanism Wave Jars Product's Popularity ment had lobbied hard for the distributors can market under puritanism has

struck the romant image of Nirodh, the fastest selling condom in India.

The distributors, Population Services International (PSI). has just sold its 100th million Nirodh to a customer in a remote village in Haryana, some 50 kilometres from here.

But trouble has struck PSI. a non-governmental organisation. For, the contraceptives advertised for several years at prime time on television are to lose their romanuc sting. Senior officials in the Union

Ministry have ordered the pullout of the ad, which showed a young boy and a girl in a romantic mood. The punchline said: "When you feel greedy for love, then you take to the saiest way - Nirodh."

"We were taken by surprise when we were told about it. But we are not dismayed. We will carry on selling as if nothing has happened," says a PSI spokesman reacting to the pullout order.

PSI is the only non-government organisation involved in selling Nirodh and another condom called Masti (Joy) all over North India.

Market research analysts had pointed out that the condom was perceived as dull, pedestrian and utilitarian. So the romantic ingredient was added and sales picked up.

apparently Doordarshan, the government TV station, was flooded by letters from Hindu fundamentalists, who objected strongly to condoms being advertised at prime time. Some 100 million people watched prime time television when the contraceptives ads were shown.

"How dare you show this commercial when we are watching a programme with writer protested Doordarshan officials.

However, by and large, the Nirodh campaign was accepted by most viewers until the present government, headed by Mr. Chandra Shekhar, stepped in. Quite clearly, some devout Muslims and Hindus in parlia-

zations should be given due

removal of the commercial. The PSI has a success story.

For, in December it sold the

100th million condom just two years after taking to marketing Nirodh in 1988.

sales are next only to one of the biggest manufacturers of cigarettes — the Indian Tobacco Company which sold 120 million condoms in 1989. Distributors like PSI get a

Health and Family Welfare high subsidy for selling condoms at nominal prices throughout North India. Private firms - like the Hindustan Lever, Indian Tobacco and Brokke Bond (the tea firm) - have also been condoms.

PSI's target for 1990-91 is 60 million, which they hope to achieve by the end of April this

Some analysts believe that PSI is facing a tough job as the communal clashes and disturbances have disrupted the entire supply route.

normal, it is difficult to sell any product like Nirodh. You need to go on a hard-sell campaign in villages and small towns where initial resistance has to be broken down," says Ram Avtar Singh, a 50-year-old distributor who has some 20 years' experience of selling condoms.

He explains: "People have lost their usual reserve. Now they come and straight-away ask for a condom. They just say Nirodh. No embarrassment here. It is like asking for aspirin."

The PSI success story may not be repeated this year beto has not yet released funds to distributors for procuring con-

> It is being distributed free of cost at thousands of health centres and by social workers. Under its multi-brand strategy, the government also

supplies condoms which the

compulsory education and in

their own brands. The purpose is to ensure that the contraceptive has a presence in all households.

Another brand name, Masti (Joy), was launched by PSI in The PSI, registered as a 25 districts of the Northern charitable institution, is the State of Uttar Pradesh. PSI second largest distributor of sold 19 million Masti condoms condoms in India. Its condom in 1988-89 in North India. For 1989-90, PSI's target of 33 million pieces was exceeded by 20 million.

Also, the brand name may be changed. Market men are hunting for another brand name, Masti is not perceived

uniformly in the country. India's success story in selling condoms has excited interest in several Asian counties. What is PSI's strategy?

"We make sure that congiven rights to market Nirodh doms reach actual users and do not lie as head stock on retail shelves," a PSI spokesman explains. "First, the product is taken beyond chemists to grocers and general merchants to

ensure widest dispersal." Credit is not given, so salesmen do not spend time collecting money. A PSI salesman thus makes about 50 calls "Unless things become a day on an average and the salesforce covers about 40,000 outlets in a month.

The PSI has 350 stockists. Whenever condoms are supplied to them, the pay PSI in advance. Then PSI's salesforce replenishes retail shops against cash which is paid to stockists. The retailer will buy no more than he can sell.

Also, since PSI dose not sell any other product, stockists and retailers are under no compulsion to buy. Retailers get a commission of 25 per cent on the selling price and

wholesalers 14.3 per cent. There are three varieties of Nirodh: The unlubricated one cause of financial crunch. The is priced at 30 paise for three, our children?" and angry letter Department of Family Planning deluxe (lubricated) at 1 rupee (US \$0.08) for five and super deluxe (thinner and lubricated) 20 rupees (US \$1.69

> The PSI is shortly launching an oral contraceptive whi h is likely to be called Pear!

oping country with out careful

for four.

Depth- news



Access to safe water is a pre-requisite for safe public health.

'Photo courtesy: Shasthya Tathya

UCI Campaign a Success Story in Bangladesh

Tsuneo Sugishita

NICEF has been actively promoting the universal immunization campaign throughout the world and has accelerated the effort in 1985 when the "Universal Child Immunization by 1990" was selected as a goal to commemorate the fortieth anniversary of the United Nations. This is a report on my observation of UCI activities in Bangladesh where dramatic achievement has been made.

Since early in the morning, many young mothers in bright coloured sari gathered at the health centre in Jhenida, some 10 kilometres north of Jessore town in Jessore District.

The health centre become a vaccination centre every Tuesday and the mothers bring their babies to be immunized. On the day I visited the centre, there were some 50 babies Prior to the immunization of babies, mothers were gathered in a small room for lecture on health and nutrition.

In Bangladesh, women seldom have a chance to go out of homes. Vaccination of their children provide them a good opportunity for them to be exposed to the outside world as well as for them to gain new knowledge and to raise their consciousness.

When the lecture was over, mothers brought their children for vaccination of BCG. DPT. Polio, etc. in other room and left the centre for home around noon time.

"In Bangladesh, various diseases have taken away the lives of so many children, but vaccination will protect our children from these diseases. At the same time, we mothers are immunization coverage rates happy that we were able to for BCG is 86 per cent. DPT is gain knowledge about nutri- 69 per cent and measles is 65 tion, sanitation, etc. which can per cent. be utilized to promote the healthy growth of our chil- and other international organi-

dren," said Shamsun Nahar (age 45) how brought a oneyear old girl child.

While looking at the happy expression on mothers' faces there, it did not seem real that 100 children die every hour, 2,400 a day, before they reach five years of ago. Happy expression may be an evidence of social improvement in Bangladesh achieved by empowering mothers and giving greater access to immuniza-

In the beginning of the 1980s, only less than 20 per cent of the world's children were immunized. With the efforts of UNICEF, WHO and their partners, and particularly with the renewed commitment of "Universal Child Immunization by 1990" to commemorate the fortieth an niversary of the United Nations, the immunization coverage improved very dramati-

According to UNICEF, approximately 80 per cent of the world's children are immunized against vaccine-preventable diseases, thus lowering the infant and child mortality rate significantly in many countries.

Among many success sto-

ries, Bangladesh stands out. In 1985, the immunization coverage rates for BCG and DPT were less than 2 per cent and that for measles was only 1 per cent. However, according to the statistics dated February 1991, it is evident that miraculous improvement has been made - among the children between the ages of 12 and 17 months, the

credit. However, the Government of Bangladesh should also be complimented for its efforts in establishing a system to promote immunization in towns and villages throughout the country. The per capita GNP in

Bangladesh is US\$170, which is almost one hundredth of that in Japan and 86 per cent of its population live under absolute poverty line. Control of population explosion, by lowering infant and child mortality rate and promoting family Of course UNICEF, WHO spacing is essential in this country. Only then universal

dustrial development will fol-According to Dr. Moazzem

Hossain who is in charge of UCI programme in Jessore. "Infant and child mortality rate in Jessore District is going down every year by 1/2 per cent. While the percentage of population below 15 years of age in this district has gone down to 7.4 per cent in 1989 from 26.6 per cent in previous years. This shows that people have come to know how to control population growth."

If a large scale development project is brought into a devel

planning, it might cause indigestion of investment and the development effort will be wasted. However, activities to improve the quality of life of people from the bottom would contribute to the development of recipient country. Immunization activity in Bangladesh was an excellent example of how earnest efforts does make a difference.

The author is the Deputy Chief of Comment and News Analysis Department of the Yomiuri Shimbun Tokyo, Japan.