

Can Heart Attacks be Prevented?

HERE is a large body of accumulated evidence, which indicates that avoidance or cessation of the risk factors — tobacco smoking, high cholesterol levels in the blood, raised blood pressure, physical inactivity, obesity and uncontrolled diabetes — can lead to the prevention of coronary heart disease and heart attacks.

Did any of your parents suffer a heart attack?

Are you a male nearing 40, or a female over 50?

Do you smoke regularly 30 or more cigarettes a day?

Are you fond of rich food, full of saturated fats and cholesterol e.g. eggs, butter, cream, full cream milk, beef, mutton, brain or other organ meat viz liver, kidney, cooked with saturated fats like ghee or hydrogenated oils, (e.g. daldia), pastry, cake, sweets prepared from milk, chocolates, or similar products?

Do you overeat — enjoying big meals to your heart's content and also have helpings of snacks in between?

Does your occupation involve sedentary work for eight or more hours a day?

Are you one of those, who do not care for a walk, or a game of badminton or any

other form of regular physical exercise?

Do you spend all of your leisure time watching television or heading in bed?

Are you obese and grossly overweight for your age and height (say over 154 lbs or 70 kg for an average Bangladeshi of medium build and 5 feet 4 inches height).

Do you have a raised blood

pressure (over 150/90 mm Hg), which has remained uncontrolled over several years?

Are you a known diabetic and have done nothing to control it?

Are you a go-getter, competitive, hostile, ever ambitious, driving yourself hard to achieve more and more?

Are you argumentative and excitable, rather than calm and

composed? Do you have many sleepless nights?

If your answers to most of the above questions are in the affirmative, I am afraid you have several risk factors for developing coronary heart disease (CHD). You may be a good candidate for the development of atherosclerotic plaques in your coronary arteries. These are channels, which carry blood to the heart muscle (myocardium). If these deposits of cholesterol keep on accumulating, your coronaries are pretty soon likely to get narrowed to point, when little or no blood and therefore oxygen will reach the heart muscle. Ultimately the heart muscle cells in small and large numbers, are going to die. At some point in time, scarring is going to occur inside one or more coronary artery, thus further narrowing the lumen.

Such a diseased state of the coronary artery predisposes to the formation of blood clots within the lumen of the artery (thrombus), thus completely shutting off the blood supply to a part of the heart. This leads to the death of the affected heart muscle (acute myocardial infarction) and the patient suffers a heart attack.

Myocardial (M.I.) is an acute medical emergency and the patient faces serious conse-

quences including imminent death. In over 30 per cent of events of M.I. the patient may succumb to the very first attack. With prompt medical attention and care, others may recover, but they carry the risk of a subsequent attack. Even with the finest medical services as many as fifty per cent of cases of M.I. may have fatalities within the first year.

So you see, the risks you are taking are real and serious.

What can be done to prevent these risks? Have any studies been carried out to prove the point?

Can the withdrawal or cessation of these risk factors prevent heart attack in an individual, or reduce the mortality rate from CHD in a community?

In fact several well controlled studies in different countries have established the nature and relative importance of these several risk factors,

so that prevention of coronary heart disease is a reality and a proven public health measure, both at the individual and community levels.

Interventions to control these risks have been eminent successful in a number of well known projects, involving sizeable populations.



Real Men Use Contraception

WHEN Francis Kofi Amoah and his bride decided to wait a year or two before starting a family his friends laughed at him. But he stood firm. For behind the decision were two personal experiences; that of growing up as one of nine children, and that of fathering an unplanned baby.

Kofi remembers the struggle his father and mother had to provide for them. 'Having put the older children through school, my parents found it increasingly difficult to care for the rest. We older children had to look after the younger ones as soon as we were out of school and earning.'

His second experience came when he was a polytechnic student and made his girlfriend pregnant. The woman was also at college and the pregnancy forced her to drop out of her course. After the birth of their daughter, Kofi's girlfriend was unable to go back to school and this led to their break-up. She wished to become a trader but needed capital to start. He was unable to provide it and eventually they drifted apart. He married another woman three years ago.

Kofi, 29, still has a bad conscience about the fact that he

was the cause of his girlfriend's inability to complete her schooling.

And more especially he regrets his stubbornness about family planning. 'She used to talk to me about the need for

contraception, but I refused to listen to her. We used no contraceptives at all. It was only after she became pregnant that I realised that she had been right and I should have listened to her.'

By the time Kofi and his fiancée set their marriage date, he had become a family planning enthusiast and a founding member of his local 'Daddies Club', a family planning support group, set up in 1980 by the Planned Parenthood Association of Ghana (PPAG).

The couple decided to delay having a family, by using contraception. Kofi's friends teased him, and asked him what he would do if eventually they found they couldn't have a baby. Undaunted, Kofi and his wife stuck to their plan, and

Two years into their marriage, they decided to start a family. 'Because we waited until my wife was ready for it she was very fit during pregnancy and delivered the baby without any problems.'

The friends who had been teasing him were silenced. And then it was Kofi's turn to laugh at them, for another reason. 'During the time before the baby came, I was able to save some money and buy household items. So we had one problem less than other couples who had the care of a

Men are now an important target audience for family planning services, says the just-published State of World Population Report from the United Nations Population Fund. But many men are still prejudiced against using condoms. In Ghana, Francis Kofi Amoah tells Ajoa Yeboah-Afari just why he changed his views and became a keen advocate of male contraception.

relied on condoms and contraceptive foaming tablets.

'Of course I had a prejudice against using condoms initially — like many Ghanaian men. But I got used to it,' explains Kofi. 'After all, there's no reason why a man should put the responsibility for contraception on the woman.'

baby, or babies, to budget for. They started coming to me to ask how I was able to manage so well...'

There was a time though that anything other than an early marriage, polygamy and a steady production of babies would have been unthinkable for Kofi. He was brought up to



Targeting men: Many innovative and imaginative ideas are coming up to widen men's use of contraception — male methods of contraception account for only 15 per cent of use, compared with 85 per cent for female methods.

Prescribing for the Elderly

Dider Hossain Bhuiyan

Old people, especially the very old, require special care and consideration from both the prescribers and the pharmacists.

Elderly patients are apt to receive multiple drugs for their multiple diseases. This greatly increases the risk of drug interactions as well as other side effects. Moreover, symptoms such as headache, sleeplessness, light headedness which may be associated with social stress as in widowhood, loneliness and family dispersal can lead to further prescribing, especially of psychotropics. The use of drugs in such cases can at best be a poor substitute for effective social measures and at worst pose a serious threat from adverse reactions.

In very old subjects, manifestations of normal ageing may be mistaken for disease and lead to inappropriate prescribing. For example, drugs such as prochlorperazine are commonly misprescribed for giddiness due to age-related loss of postural stability. Not only is such treatment ineffective but the patients may experience serious side-effects such as drug-induced parkinsonism, postural hypotension and mental confusion. Self-medication with laxatives and analgesics or with drugs prescribed for a previous illness may be an added complication. Discussion with relatives and a home visit may be needed to establish exactly what is being taken.

The ageing nervous system shows increased sensitivity to many commonly used drugs such as narcotic analgesic,

benzodiazepines and anti-parkinsonian drugs, all of which must be used with great caution.

The most important effect of age is reduction in renal clearance frequently aggravated by the effects of prostatic hypertrophy, chronic urinary-tract infection. Many aged patients thus possess only meagre reserves of renal function excrete drugs slowly and are highly susceptible to nephrotoxic drugs. Consequently in an aged patient, the drug distribution and metabolism is greatly hampered.

Common adverse reactions.

Adverse reactions often present in the elderly in a vague and non-specific fashion.

Mental confusion is often the presenting symptom. Other common manifestations are constipation and postural hypotension. Many sedatives and hypnotics with long half-lives (t 50%) have serious hangover effects of drowsiness. Unsteady gait and even slurred speech and confusion. Those with short half — lives should be used as a substitute.

Diuretics that increase urinary output are overprescribed in old age and should not be used to treat simple gravitational oedema which will usually respond to increases movement, raising the legs and support stockings. A few days of diuretic treatment may speed the clearing of oedema but it should rarely

need continued drug therapy. Other drugs which commonly cause adverse reactions are antiparkinsonian drugs, antihypertensive drugs, psychotropics and digoxin; the usual maintenance dose of digoxin in very. Old patients should be 125 micrograms daily — (toxicity is common in 250 micrograms)

Drug induced blood disorders are much more common in the elderly. Thus therefore drugs with a tendency to cause bone marrow depression (e.g. co-trimoxazole) should be avoided whenever possible.

Guidelines

It is a sensible policy to prescribe from a limited range of drugs with which the prescriber is thoroughly familiar in the elderly. Dosages should generally be substantially lower than for younger patients and it is common to start with about 50% of adult dose. Some drugs like chlorpromazine should be avoided all together.

Physicians should review repeat prescriptions regularly. It may be possible to stop the drug or reduce the dose to match diminishing renal function. Doctors should simplify regimens. Elderly patients cannot normally cope with more than different drugs and ideally these should not be given more than twice daily.

Full instructions on every prescription should be mentioned and the containers must be properly labelled with full directions.

The pharmacists should play a vital role in case of elderly patients. During dispensing the pharmacist asked to counsel the patient intensively.

It is the great responsibility for both physicians and pharmacists to give best health services to the elderly patients.

South America Braces Itself for Cholera Epidemic

Governments in south America have sounded cholera alarm bells. An epidemic has broken out in Peru and cases have been reported from Ecuador and Bolivia. Movements of people, ships and produce from Peru have been restricted and the import of fish prohibited. International sporting events are being hit. Gemini News Service reports on an illness that strikes poor people who do not have access to clean water and public health information. by Frank Nowikowski.

It is believed the present cholera epidemic was brought by a sailor to South America from Asia, traditional starting point for the disease.

Greek historian Tuciddides (471-402 BC) mentions a

cholera epidemic in Athens. Epidemics are recorded in Indian texts a few centuries earlier.

There were reports of cholera epidemics in 1438 and 1629. One epidemic which

started in the Ganges delta in India was documented as entering China in 1669.

The major pandemic (worldwide epidemics) of 1817 started in India and spread to East Asia then by sea to the Philippines, China and Japan, and overland to Asia Minor and Russia, but did not reach Europe.

Two years later cholera reappeared in Russia, entering from China and Mongolia. The epidemic spread to Germany and reached Britain in 1832 from where, through Canada, it spread to the Americas.

Another epidemic of cholera reached Europe from Egypt in 1840 and between 1863-66. It reached the United States between 1867 and 1873.

A pandemic which originated in India in 1879 entered Europe in 1883 through French Mediterranean ports. One victim was the Russian composer Tchaikovsky.

The last major pandemic was in 1908-9 and affected India, China, the Philippines and Europe. By that time two Germans, Maxmillian Pettenkofer and Robert Koch, had done much to identify the organism responsible for cholera, and the public health measures needed to stop the spread of the disease.

Cholera is a gastro-intestinal sickness caused by the ingestion of bacteria. It is characterised by vomiting and

diarrhoea, abundant cramps, suppression of urine and general prostration.

There are many forms of cholera, some relatively mild types being labelled 'European cholera' or 'stomach cholera'. The present Peruvian epidemic is not of a very virulent strain, with a mortality rate of 0.05 per cent. But health authorities are bracing themselves for a second, more virulent, stage.

The most vulnerable are the poor in any society, who have no access to clean drinking water and food. For its survival and development the cholera bacterium needs water. It can survive up to 285 days in salt sea water down to a depth of 4.5 metres.

For this reason ships are being asked to empty their ballast tanks far out to sea before approaching ports.

The cholera bacteria in sea water contaminates plankton which forms the base of the food chain for many marine animals. At risk are humans eating fish caught in infected waters.

Poverty stricken Peruvian towns do not have sophisticated sewerage systems. Raw sewage is dumped untreated not only into the ocean but also into rivers, from where poor people take their drinking and cooking water.

Cholera is an illness that strikes poor people who do not have access to clean water and public health in formation. Poor people also fall victim to the disease where strong, well-nourished people may ward it off.

Not everyone who ingests the cholera bacteria, succumbs to the illness. The acids in a normally healthy individual's stomach and intestines can destroy the bacilli.

In many South American countries, public health announcements on TV advise on how to disinfect drinking water by boiling or by adding chlorine, or washing hands and cooking food. —GEMINI NEWS

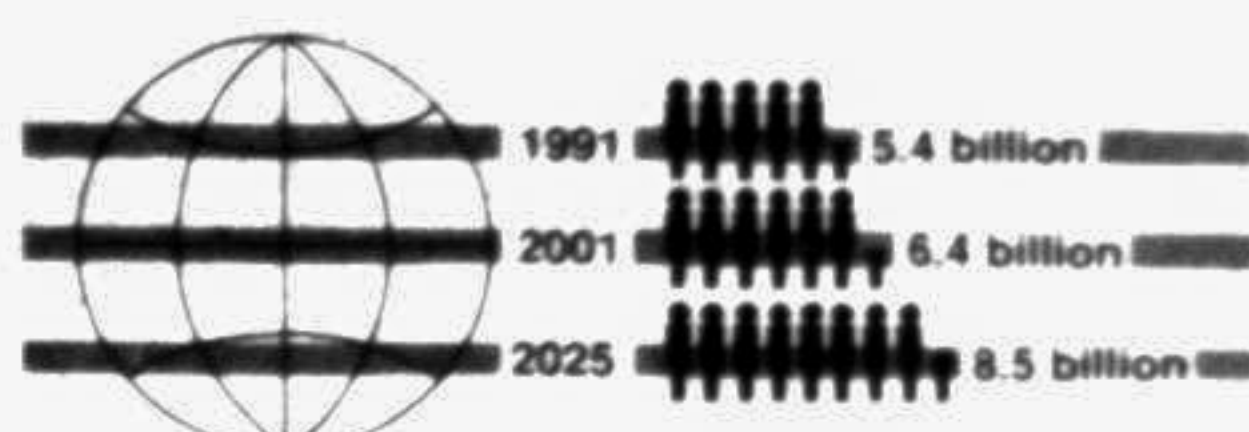


Family planning - strategy for survival

Extending family planning services during the 1990s will not only help people have the size of family they want — it will help keep population growth at levels the world can live with. More and better voluntary family planning services will be vital for development, and even survival, in the 21st century.

Faster than ever

World population — 5.4 billion in 1991 — is growing faster than ever before. By 2001 the total will be 6.4 billion, by 2025, 8.5 billion. Just to keep the figures from going any higher will take a major international effort.



Hurting the environment — hurting development

More people in developing countries means more pressure on land and water resources. Many people have to move to cities or to other countries.

Cities in developing countries are growing rapidly, leading to air and water pollution. Urban populations need food: developing countries will be importing 112 million tonnes by the year 2000.

In developing countries, 105 million children are not in school. Faster population growth means more pressure on education and health services.

Adding it up

The United Nations Population Fund estimates that it will cost \$9 billion a year by the year 2000 to provide voluntary family planning services to the 567 million couples who will need them. This means doubling present expenditures. Half will come from the developing countries themselves, the other half from the richer countries. UNFPA alone will need \$1 billion a year by the year 2000.



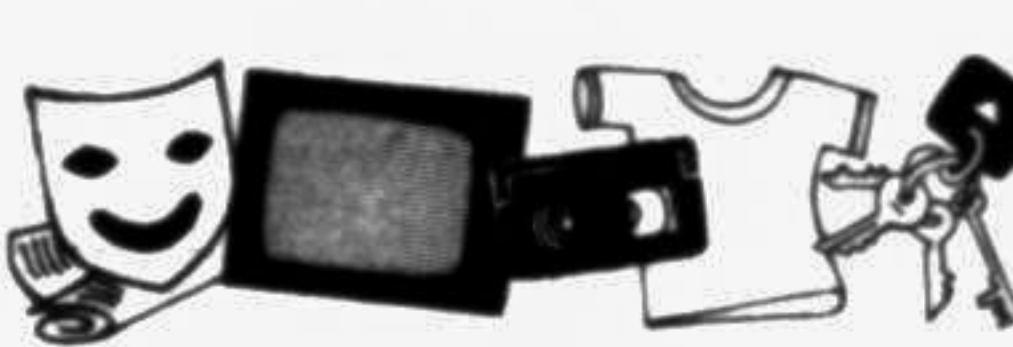
Delivering the goods

Strong programmes get good results. A change from 'low' to 'high' programme effort can make a difference of more than 2 births per woman in a country with a high level of development. Even where development levels are low, the difference can be 1 or more births per woman.

A wide variety of methods and services works best. In Thailand, contraceptive use increased from 15% to 70% between 1970 and 1990. People can usually find a method that suits them, available from public health clinics as well as from private doctors, traditional medical services and pharmacies.

Family planning works

World population is 412 million lower than it would have been without family planning programmes. In the 1990s, only 10% of couples used modern contraception. Today, the figure is 51%, 381 million couples. But it must go up to 56%, or 567 million couples, by 2000. Just to keep on track, another 2 billion people will need family planning services.



Family planning can be fun

Imaginative media campaigns can break through myths, get people thinking and looking for services. Satisfied customers help spread the word.

In Nigeria, nearly 25% of new clients at family planning centres cited TV shows giving clinic addresses as their referral source.

In the Philippines a quarter of a sample of 600 young people between 15 and 25 said they sought contraceptive advice after seeing two music videos on family planning.

In Brazil, a vasectomy advertising campaign brought a 54% increase in the number of vasectomies performed over the next year.