# Consequences of Passive Smoking

HE tragedy of smoking does not only sweep the smokers, rather it equally affects those who do not smoke. A comparison of the chemical composition of the smoke inhaled by active smokers with that inhaled by involuntary or passive smokers shows that the toxic and carcinogenic effects are qualitatively similar.

Individual mainstream smoke constituents have usually been found in sidestream smoke as well. It is found that undiluted sidestream smoke contains at least five times the tar and nicotine, four times the benzopyrine and 46 times the ammonia as well as higher concentration of many other harmful substances.

Sidestream smoke also contains a greater concentration of nicotine, carbondioxide, nitrogen oxides, hydrogen cyanide, aromatic amines and volattle amines according to the finding published in the WHO fact sheet.

Furthermore, the particle size of side stream smoke is smaller than of mainstream smoke and hence the particles are inhaled to a greater depth in the lungs of non-smokers.

### **Health Hazards of Passive** Smoking

In the United States, passive smoking has been estimated to be the third leading preventable cause of death where 53000 deaths occur every year due to passive smoking alone. The health hazards associated with exposure to environmental tobacco smoke

R Cristina Etchechurry

is a young psychiatrist

specialised in the treat-

various types of drugs. She has

adopted a holistic medicine

which combines traditional

acupuncture with 'moxa' and '

importance of a strict control

and constant checking of these

people, who 'in most cases

need to be listened to, to be

therapeutical method which

constitutes one of the main-

stays of Chinese medicine. It is

a healing practice based on the

stimulation of certain points

on the skin with needles or

recovery' means the eradica-

tion of the agent that causes

the illness, so that a natural

balance is re-established in the

individual and his or her de-

fences are strengthened to

fight disease. In general, the

treatment is carried out using

acupuncture combined with

moxa (a Portuguese word

meaning 'wick') is done using

dried Artemisia leaves. In

some case small cones are

The treatment with

In acupuncture 'complete

Acupuncture is an ancient

Moreover, it stresses the

Bach's floral medicines'.

paid attention to.

other objects.

steel needles.

of people addicted to

are acute respiratory illness in early childhood, reduced level of lung function and reduced development of lungs of children, lung cancer, coronary heart disease and so on. The

children of smoker-parents usually born with low birth weight and less height. The frequency of respiratory infections is higher among children living with smokers than among those living with nonsmoking families. Bronchitis and other respiratory diseases are significantly more common in the first year of life if a child has one smoking parent and even more common if both father and mother smoke.

In developing countries acute respiratory infections are a leader cause of childhood death accounting for nearly one-third of all deaths under five years of age. In addition to poor nutrition and over crowding air pollution has been shown to be a risk factor for acute respiratory infection.

It appears that passive smoking increases the risk of death from coronary hearth disease by about 30 per cent. In Australia over one death in five is directly related to drug abuse of which 71 per cent can be accounted to tobacco related diseases.

In the state of Victoria with about four million population, it has estimated that in 1987 smoking was responsible for 4735 adult deaths, 41 pre-natal deaths, 21191 lost years of adult life and more than 24500 were admitted into hospitals. Practising Psychiatry Without Medicines

are rolled in to the shape of a

thick eigar. In the first case

the cones are lit and then ap-

volves bringing the Artemisia

cigar close to the chosen

point; when the heat reaches

the highest bearable tempera-

ture, the point is pressed

lightly, and the operation is

In Uruguay acupuncture has

been known for some time

now. On the other hand, Bach's

floral treatments have only

started to be used recently.

and according to Dr Etchec-

hurry herself, it was only by

chance' that she came across

concentrated extracts from

wild flowers, whose healing

properties were discovered by

Dr Edward Bach, a medical

doctor born in Moseley, a

small town in the outskirts of

based on the conviction that

illness is the result of an emo-

tional imbalance in the energy

Tragically, the effects of

and poor co-ordination, some-

times cause sufferers mistak-

enly to be treated as if drunk

Awareness of MND is

"generally" about 50 per cent,

or mentally retarded.

Bach started his research

Birmingham, England.

Bach's floral medicines are

repeated.

completely.

The second method in-

plied directly on the skin.

by Md Anowarul Islam Khan

In places where cigarette smoking has been practised for several decades, about 80-90 per cent of lung cancer, 80-85 per cent of chronic bronchitis and emphysema and 20-25 per cent of death from heart disease and stroke are attributable to tobacco. The percentage risks would be lower in regions with less exposure to smoking.

### Smoking Pattern

Over the last decades numerous hazards of smoking and its consequences could have threatened human civilization all over the world. Smoking has become an epidemic which claims thousands of life every year in every country.

The smoking pattern shows that in the industrialized countries 20-40 per cent female do smoke while male smokers varty from 30-40 per cent. In the developing countries, typically from 2-10 per cent females are smokers and in these countries 40-70 per cent males do have the practice of smoking that exceed the figure of developed coun-

Globally about three million people die every year due to smoking, of which two million in the developed countries and one million in the developing countries. It is important that both active and passive smoking has now been recognized as a significant causative agent of several acute diseases of mankind.

by Alvaro Pan

him, the conventional material

treatment merely provides

temporary relief but does not

attack the real causes of

origin. What we call illness is

the final reflection on he body.

the end product of a process

in which deep and long-lasting

A team of Uruguayan psychiatrists are treating their patients with acupuncture

and Bach's floral medicines', replacing conventional medicines almost

Illness is not material in its

illness

What is eventually needed is to prevent smoking to protect environment from harmful particles and gases that effect human health considerably. The smokers not only suffer themselves from smoking-related diseases but they are also responsible for similar discases and deaths for the non-

Considering the depth of the problems arising out of smoking, anti-smoking measures are being intensified all over the world to reduce health problems and environmental pollutions. More than half of the countries in the world now provide protection from smoking in public place encompassing a variety of public sights and public health

## Anti-smoking Law and

social awareness Policies that regulated smoking in public places and public transport stem from a collective concensus at the local, municipal, regional and national level. While it is the role of government to pass and enact legislation, the role played by individuals as part of society is also important and the responsibility still remains with the individuals to pursue the introduction and application for further regulations to attain a tobacco-free society.

A strong anti-smoking awareness and practices be developed among the people through intensive educational campaign. The existing laws

clear spring from the sur-

roundings. Then they are left

in the sun for some hours in

the same place where they

have been collected. Thus, the

water becomes impregnated

medicines, which appear

among the medical systems

credited and recommended by

the World Health Organisation

There are 38 of these

with the flower's energy

and regulation discouraging smoking behavior have to be implemented effectively in collaboration with all concerned authorities and organizations Political commitment for the protection and promotion of public health would facilitate the achievement of antismoking goals in the country. We still have to go a long way for attaining smoking free society where about 70 per cent of the male population practice

smoking.

It is a responsibility of the government to safeguard public health for the greater interest and welfare of the people. In fact, health is not a commodity available in the market for public consumption but it can only be shared by each and every individual member of the community with logical understanding and self determination. People have the right to know more about the health hazards of smoking and its socio-economic consequences to abstain themselves from such fatal habit of smoking. An intensive health education programme containing scientific knowledge and information on smoking should have to be developed by the Health Department, law enforcing agencies, educational institutes, media network, social organizations and other government and non-government agencies for establishing a smoking-free environment and healthy life style in society.

(Md Anowarul Islam Khan Is Asstt Chief, Bureau of Health Education)

are prepared and applied in

function and there are also

blends which are used to pre-

pare a medicine for emergen-

cies, a formula for concentra-

tion and for burns. Bach classi-

fied them in to seven sub-

groups to deal with various

ailments; fear, uncertainty,

loss of interest, loneliness, hy-

persensitivity, discourage-

ment, excessive concern for

be applied individually, in

blends, with acupuncture, or

even in association with the

usual medicines, if the pa-

tient's state requires urgent

treatment, for floral medicines

work more slowly than con-

ventional medicines. Gradually,

the latter are withdrawn and

These floral medicines can

the well-being of others.

Each of them has a specific

drops under the tongue.

# Breastfeeding Prevents Diarrhoea

IARRHOEA and its fatal consequences are again making headlines in our daily newspapers. Certainly great improvements have been made in our understanding of how to treat diarrhoea quickly and effectively; over 90% of households know about ORT (Oral Rehydration Therapy) and its use is widespread. But unfortunately in another equally important area of understanding, we appear to be regressing rather than advancing: breastfeeding and particularly exclusive

breastfeeding is declining. Can breastfeeding make a significant difference in the incidence of diarrhoea? Most certainly - in fact "significant" is the wrong word to use -"fantastic" or "dramatic" would be more appropriate. A recent study in Brazil found that infants who received both breastmilk and other milk were 4 times more likely to die from diarrhoea than those who were exclusively breast fed, while those who received no breastmilk were 14 times more likely to die.

to bottlefeed their babies.

Clare Blenkinsop of infants in Bangladesh is a problem confined to urban ar eas or to a small elite section of the population. To state that 98% of mothers breastfeed their children is irrelevant.

What is important to understand is that so-called "combined feeding" is the norm and exclusive breastfeed ing rare. Studies in this country have shown that almost 100% of babies receive something other than breastmilk for their first feed and this is the beginning of a pattern of partial breastfeeding combined with giving the baby foods and drinks other than breastmilk.

Another common miscon ception is that malnourished women are unable to breast feed their babies adequately and therefore must supplement their breastmilk with other powdered milks. In fact, it has been shown scientifically that malnourished women can produce both the quantity and quality of breastmilk needed for the proper growth of a baby up to 5 months of age. And

Exclusive breastfeeding means giving the baby nothing else but breastmilk - no honey, mustard ofl or sugar water soon after birth or cows milk, powdered milk or other fluids afterwards. Breastmilk really does contain everything a baby needs for the first five months — even enough water for a hot climate like ours. Diarrhoea, which is always caused by taking contaminated food or fluids, can be almost totally avoided for the first 5 months of a child's life by exclustve breastfeeding. At 5 months breastmilk

should be complemented with a variety of freshly prepared family foods. The food should be mashed up and fed either by a clean spoon or hand but never by a bottle. Small children need small quantities of food often - their stomachs are not large enough to contain large quantities.

Why does bottlefeeding so quickly lead to diarrhoea? Because it is very difficult to ensure that all the fluids in the bottle are sterile, or completely clean, or that the bottle and the teat are free from bacteria. To be safe, bottles and teats must be boiled for 10 minutes, each time they are used. The water used to mix the feed also needs to be boiled for at least 10 minutes. To achieve these conditions, money, time, equipment and information are required and even then the product is inferior to breastmilk.

In addition to its nutritional value, and its immunological properties there are many other advantages to breastfeeding - babies that are breastfed are less likely to suffer from allergies such as asthma and eczema. Children who are exclustvely breastfed are half as likely to develop cancer before the age of 15 than children not breastled.

For mothers too the advantages are great - the process of breastfeeding helps a woman's body return to its pre-pregnancy condition and it offers good contraceptive protection (if practiced exclusively) for the first 5 months after delivery. The risk of breast cancer and ovarian cancer in later life progressively decreases with increased breastfeeding dura-

The goal we should be striving to achieve for the optimal health and nutrition of mothers and children is that all women should be enabled to breastfeed exclusively for the first 5 months of a baby's

This child feeding ideal can only be achieved by creating an appropriate environment of awareness and support so that women can breastfeed in this manner. Attainment of this goal means that obstacles to breastfeeding both in the community and the workplace



The reasons why breast feeding offers protection against diarrhoea are:

the immunological and antimicrobial properties of breastmilk

the gut bacteria of exclusively breastfed infants tend to inhibit the growth of diarrhoea-causing bac-

bottlesed infants are at greater risk of bacterial contamination

breastfed infants have a better nutritional status, and thus less risk of death from diarrhoea.

Too often it is claimed, inaccurately, that bottlefeeding

practically the only option a malnourished woman has to feed her baby safely and adequately is to breastfeed exclusively. Someone who cannot give herself sufficient food cannot possibly afford the expensive and dangerous option of buying tinned formula milk.

Breastfeeding is not just the best way of feeding a baby but easily the cheapest; to feed a baby of 3 months on tinned formula milk powder costs perhaps Tk 30 a day whereas a woman who is breastfeeding requires only Tk 2-5 of extra food. We should find ways of feeding mothers themselves more, rather than urging them

## must be eliminated. WHO's Prognosis: World Remains a Dangerous Place

professional knowledge of the disease, and cases where some patients are "ignored." MND, such as slurred speech

ifest, cruelest afflictions. wasting illness which destroys nerve cells controlling muscles. This causes gradual weakening of the limbs and entire body while leaving the

Death occurs when the muscles that power the breathing system collapse, or eating and drinking become

Alliance of MND/ALS Associations is due to be formed in November. Component objectives will be:

to exchange and spread information about research into the disease as

to coordinate research programmes so that "unnecessary duplication of effort" is avoided

care and disease management

forces take part, Bach explained. Therefore, taking measures to correct the emotional imbalance will improve physical ailments. Treating the patient's personality rather than the illness, is at the root of the new medical system. Bach stressed Based on this conviction he

started observing natural phenomena such as dew, light, shade, and plants. He then selected some plants and natural elements until he arrived at a method consisting of cutting buds of the chosen flower, selecting those with the most perfect blooming.

These blossoms are then placed in a thin glass container full of water collected from a

(WHQ). Thirty-five of them come from wild lowers that grow in England: rock rose, mimulus, cherry plum, aspen, red chestnut, scleranthus, gentian, gorse, hornbeam, wild oat, clematis, honeysuckle, wild rose, olive, white chestnut, mustard, chestnut bud water violet, impatiens, hea ther, agrimony, centaury, walnut, holly, larch, pine, elm. sweet chestnut, star-of-Bethlehem, willow, oak, crab apple, chicory, vervain, beech.

Ligneous flowers are boiled with some drops of cognac, because it is a natural alcohol which comes from life and helps to keep the flower's energy. Afterwards, concentrates

treatment continues with floral medicines, which are not addictive and have no side-ef-By combining these techniques. Dr Etchechurry has amazing results with her patients. They are very pleased to see their dependence on sedatives and tranquillisers

replaced by a method that heals them with no unwanted side-effects. - Third World Network

> plied research cover not only genetics but also epidemiology (the science of epidemics) nerve damage and survival, bio-

Features

No one is talking in terms of a single, all-embracing "miracle cure," let alone forecasting when a breakthrough will be made. Nothing is more damaging to patients and their families than hopes falsely raised.

encouraging signs - such as the positive response of some patients to immune suppression drugs and plasma exchanges, also to treatment using amino-acides.

MND's rate of progress in some cases, is currently being repeated in Europe. "Continued exchange of

ideas" is essential to the development of research, the scientists declare. So also is the need for re-

proved no easier for MND associations to generate than for numerous other charities in a period of deep recession. Every dollar, deutschmark,

yen or pound has to be fought for - and is being done so through relentless effort by brave patients and healthy, supportive members of the Their fund-raising activities

have recently included a trans-European cycle ride, a 100hole golf marathon, a royaltysponsored polo weekend in Switzerland, fashion shows and concerts.

In their commitment to beating the killer disease, the MND associations are determined, a spokesman says, that our reach will exceed our grasp."

- Gemini News

HE world is a dangerous place, as the World He-▲ alth Organisation (WHO) reminds us in its annual snapshot of pestilence and major causes of death. WHO reports that:

\*\*About 500,000 women died during pregnancy and childbirth last year. \*\*Malaria, sleeping sick-

ness, and Chagas disease are on the increase, as are leishmaniasis and schistosomiasis. \*\*Heart disease is approaching epidemic proportions among the better fed populations of Asia and Latin

America, and; \*\*Population growth is outstripping the capacity of developing nations to provide their people with safe drinking water and sanitary waste disposal services - the most basic investments a nation can make

in the health and development

of its children. Maternity health care coverage remains as low as 2 per cent in parts of Africa. An average 10 per cent of all pregnancies in the developing world last year led to life-threatening complications. The highest proportion of births assisted by a trained health care worker in the developing world was in East Asia, but some of the lowest were in South Asia.

Malaria poses a threat to 40 per cent of the world's population, or 2 billion people, living in more than 100 countries. And in the worst-affected countries, the situation has deteriorated over the past decade.

The resistance of mosquitoes to insecticides; the resistance of parasites to pharmaceuticals; and the failure of health services in remote areas, have combined to reinforce epidemics on countries such as Ethiopia, Madagascar and northern Sudan. Resistant strains of malaria are currently threatening the repatriation of refugees from

by Ian Steele Thailand to Cambodia. More new cases of sleeping

sickness (trypanosomiasis) caused by the bite of the tsetse fly, were reported in Africa during the 1980s than in the 1950s. Some 50 million people live in affected areas of 36 countries where an additional 25,000 people are infected ev-

ery year. Leishmaniasis is transmitted by sand flies and is one of the most rapidly spreading parasitic diseases. There are some 12 million infected people in 80 countries and an estimated 350 million people are at risk of transmission.

Between 1981 and 1990, an additional 1 billion people gained access to safe drinking water supplies, and urban sani-

Malaria is on the rise. And heart disease is approaching epidemic proportions among the better fed populations of Asia.

tation reached another 330 million. But more people today are without these services than

10 years ago. The most dramatic failure

to keep pace with demand driven by high rates of fertility. has been in Africa where some countries record population growth irr excess of 4 per cent a year, and where barely 17 per cent of married women of reproductive age have access to contraceptives which would give them a choice over their

Cardiovascular diseases will cause about 25 per cent of all deaths worldwide this year. Although the average percentage death rate from diseases of the heart and blood system is still relatively lower in developing countries (16 per cent) than in the industrialised world (50 per cent), the total number of victims in the

poorer countries is much higher because of their population size.

Another factor cited by WHO this year also guarantees that the number of Third World deaths from heart and blood disorders will continue to grow more rapidly and in proportion to the caseload of the industrialised world.

While cardiovascular mortality declined in many industrialised countries during the 1980s there was a steady increase in the Third World where people are living longer but eventually succumbing to illnesses commonly associated with the "good life," including the excessive consumption of fatty foods, smoking and limited physical exercise. Projections for Latin Amer-

ica over the next 25 years are that heart and blood system deaths will be five times greater than those from infectious and parasitic diseases.

Still, there are also good news on the global health front this year. Among the most promising signs are:

\*\*The achievement of WHO's 1990 target of immunisation for 80 per cent of children against tetanus, measles, diphtheria, whooping cough, poliomyelitis and tuberculosis, by their first birthdays.

This year alone, immunisation will prevent some 3.2 million child deaths from measles, tetanus among newborns and whooping cough, and 445,000 cases of paralysis from polio.

A dramatic reduction in cases of guinea worm disease (dracuncultasis) in India and Pakistan - the only countries of Asia where the disease in prevalent.

The success of a 15-year campaign against the black fly which causes river blindness (onchocerciasis) in seven West African countries in particular.

-Depthnews Asia

## field of a living creature. For made and in others the leaves Global Body will Fight Killer Nerve Disease

EPRESENTATIVES from up to 40 nations A are to meet soon to launch formally an aid organisation with one pyramid aim improved action against motor neurone disease (MND), which ranks among the world's dead

Also known as amyotrophic lateral sclerosts (ALS), it is a ultimately paralysis of the intellect unaffected.

impossible. No cure exists.

The best-known living victim is Professor Stephen Hawking, author of a Brief History of Time, a best-seller which Hollywood director Stephen Spielberg has now turned into a feature film.

The proposed International

to help promote awareness of MND/ALS world-

well as stimulating and supporting research

to share data about patient

National associations from South Africa, Romania, Japan, Australia, the United States and the Philippines have already formed a steering group and discussed common prob-

These notably include inadequate health system, limited provide the International

Alliance's secretariat. In Britain alone, MND kills three people each day and af-



Cambridge Professor Stphen Hawking: the author of this world bestseller is the most famous victim of motor neurone disease.

by Nicola Cole compared with 90 per cent awareness of the better-known but less prevalent multiple sclerosis and muscular dystrophy, says the British MND Association, which will initially

fects 6,000 others, mainly

adults. The number of patients in contact with the national health service is 900 annually. Their life expectancy is between three and five years. "As yet there is no specific treatment that will arrest or

disease," the association says. The speed of deterioration causes tremendous practical and financial problems for those with MND and those who care for them ... however, much can be done to improve the quality of life through the correct care and provision of special equipment."

slow down the progress of the

Such equipment includes reclining/elevating chairs which make daily life more manageable and comfortable, and "lightwriters" that give sufferers the power of speech by displaying and mechanically speaking words touch-stroked on to a keyboard.

Research into the cause and cure of MND is being carried out on a growing international scale. Many theories have been suggested - vital infection, environmental poisons, metabolic disturbance and genetic defects.

Some medical scientists are trying to trace the geographical and social spread of MND to see if these give any useful clues. Work being done in Sydney, suggests families may have dif-

caused by a multiplicity of defective genes (protein substances forming part of the body's chromosomes). Researchers in New England, US, have identified a

ferent forms of the diseases

A Chromosome is the rodlike portion of each cell's nucleus; it plays an important part in transmitting hereditary characteristics from one generation to the next.

defective gene with a chromo-

some — "Chromosome 21."

The relevant fields of ap-

engineering and treatment techniques.

There are, however, some

An American trial of the last approach, which seems to slow

search funds. These have