## Tiresome process of developing AIDS vaccine By Patricia Grogg Health Dawn 10 01

VANA: The discovery of a vac- lier this year in Philadelphia, also took November. nat prevents infection with HIV, a prudent stance, stressing that research is a long, slow process. s that led to the deaths of three Norman Levin, with the Harvard n people worldwide this year, Medical School, told the conference be just around the corner, but that what realistically could be expectientific community opts for cauwhen asked to predict exactly the breakthrough will happen.

ive vaccine against HIV. Even ost advanced pharmaceutical anies do not appear to have developed, and so on, until scientists niques. The Aventis Pasteur corporachance of success, at least in the figure out how to trigger a protective tion in France produces the diate future," said Carlos immune response in all humans, Canarypox vector, while VaxGen, head of the research team in according to Levin. But expectations based in California, makes the gp-120. that is seeking a vaccine. With rise with each new test, leading some Both involve the B subtype of the y a decade of AIDS research to forecast results within two to five virus. its belt, Cuba has the longest years. "Even if this vaccine does not ctory in this effort in Latin prove effective, I know that this study

e are still a long way from an virus. is an important step towards the dis-

Coordinated by the Pasteur Institute of France and the Pittsburgh and Rochester universities, of the United States, the project in Brazil is patient's reaction and development of testing a vaccine that is a combination ed in the near future was a vaccine of the gp-120 protein, which is found that diminished the presence of the in the surface of HIV, and the Canarypox vector, which holds copies Later, a better vaccine that pre- of the virus's genes reproduced the first months of 2003 in the United vents infection in some people will be through genetic engineering tech-

Scientists identify the different classes of HIV with the letters A through J, each one with its specific ntists from numerous countries covery of one that is," commented one genetic characteristics. The subtype A pating in an international con- of the volunteers involved in a clinical is found largely in sub-Saharan Africa, e on AIDS treatments, held ear-trial initiated in Brazil in early B in the Americas, Europe, Japan and

Australia, and C in South Africa and India. The experiment in Brazil, which is in Phase II (clinical trials with volunteers), is intended to study each antibodies, according to participants

in the project. Phase III (test of effectiveness among larger populations) is slated for States, several Caribbean countries (Haiti, Trinidad and Tobago, and possibly the Dominican Republic) and Latin America (Argentina, Brazil,

Honduras and Peru). But before then, the scientific community will have the test results for a vaccine produced by VaxGen through genetic engineering, based on the gp-120 protein in two versions, corre-

sponding to the HIV subtypes B and E. The clinical trials to determine the effectiveness of that vaccine proto-

type began in the United States in nity (cytotoxic T-lymphocytes - ( 1998 and are aimed at the B subtype, which is why the vaccines being to which predominates in that country.

Tests of a similar experimental vaccine, based on subtype E, began in should completely protect some Thailand in March 1999. The results of from HIV infection, but that could US clinical trials will be known by late very difficult to achieve and may next year, and lose of the Thailand testing by the next year, says Jos nated persons who become infec Esparza, coordinator of HIV vaccine he said.

initiatives at WHO and at UNAIDS. The specialist commented that "it is very difficult to determine" which vaccine is the most promising, but that the most advanced vaccine is the one based on gp-120 (produced by VaxGen) to induce the production of antibodies - though it remains to be replaces other forms of prevention

seen if it will work. The ideal vaccine for fighting HIV, says Esparza, would be capable of inducing both humoral immunity before world health author (antibodies) as well as cellular immu- approve it. —Dawn/InterPress Serv

are combinations of the two.

"The best preventive inocula diminish the viral burden in the

In Esparza's opinion, such a vac though "imperfect", would be valuable from the individual and lic health perspective. But he stre that the important message is the future antidote against HIV is going to be the "silver bullet'

Once an effective form of immu tion is discovered, said the UN. expert, it would be at least one

## Diverse signals in health Health

Lt.-Gen. (Retd) M. Afzal Najeeb he Rules and Regulations of autonomy granted to some hospitals in the Punjab in 1998 have not been framed over three years by two successive regimes. The Federal Government has started yet another exercise to formulate a policy to regulate medi-cal education in the country and is supposedly considering a ban on new medical universities. The provinces have been asked to send working papers and suggestions have been invited from the public, and the Ministry of Health will submit proposals to the Cabinet. The Punjab Government has announced the establishment of a Medical University at Sheikh Zayed PGMI, Lahore which incidentally is a Federally administered institution. It has also been decided to open two new medical colleges at Lahore and one at Rahimyar Khan. A ban on private practice is also said to be in the offing. A proposal to create a Medical Education Authority and Medical Licensing Board of its own has been under active consideration of the Punjab Government for the past several years. The Government of Sindh has similar intentions and it is also demanding restructuring of Pakistan Medi-cal and Dental Council with most of its functions delegated to the proposed provincial bodies. The National Reconstruction Bureau wishes to reconstruct health reforms as part of the Distinct Devolution Plan.

All this shows there is no sense of direction or consistent policy. The manifestoes of our political parties are full of clichés and platitudes, only a few are ever implemented. The army has no manifesto, however it does set in motion at least temporary administrative reforms and is able to accomplish some development work. Adhocism has therefore jeopardizing the development of sustainable policies and stable institutions in every field of life.

The results are obvious — loss of half of the country, population explo-

sion, poverty, illiteracy, class exploitation, erosion of cultural values, religious radicalism, unemployment, rampant corruption and deteriorating law and order situation. The economic mess created by managers imported from international agencies has assumed horrendous proportions.

Health and education are the last priorities of any Government, both conceptually and financially

to ban new colleges and universities. In this context it may be enquired if there are any future projections regarding the requirements of doctors on the basis of which three new colleges are being opened in Punjab. What are the motives for raising Sheikh Zayed Postgraduate Institute to the status of a university bypassing King Edward Medical College, which was being considered for the purpose for decades. The reasons for bicker-ing between the Ministry of Health and the Provincial Health Departments resulting in conflicting decisions at times need to be sought. It is not understood why after years of demand for a revision of PMDC charter in the end only a vague insignificant amendment was made.

Innumerable committees, commissions, boards, task forces, symposia, seminars and conferences with participation of foreign experts and Pakistani expatriates from abroad have discussed upon the problems relating to health care year after year. Their reports and recommendations gather dust in the archives and are often not retrievable after a couple of years when a fresh meeting has been convened on the same subject. A Board was nominated by Ministry of Health in January 2000, its mandate was not divulged and as yet its deliberations, if any, are a secret. Yet again the Ministry of Health has been recently charged with the task of preparing proposals for presentation to the Cabinet in two months time. Since the exact mandate has not been revealed to the public the invitation to send suggestions could only be an exercise in futility. In any case such communications to the authorities are hardly ever acknowledged let alone given any weightage.

It may not be a biased assessment to state that significant development work was carried out in the health sector during the Ayub and Zia eras and some of it was enduring despite the retrogressive policies adopted by their successors. The present Gov-

ernment too is committed to carrying out reforms but the absence of any tangible results so far betrays a prevailing confusion in policy making. The monitoring scheme has failed even as a shortterm measure as the very concept is flawed. mechanism should be inherent in the system rather than

health policy and the basic issues regarding the mode and conduct of health delivery system are unre-solved. Health remains a concurrent subject between the federation and the provinces despite commitment to the contrary, the sectoral develop-ment of curative and public health as well as primary secondary and tertiary care is uneven, the role and quan-

tor too has been a casualty to this chaotic situation. There is no national

tum of public private partnership in health care is undecided, and both are mismanaged and unregulated. The Punjab experiment of autonomy to some hospitals has virtually failed. The only outcome has been a rise in the cost of treatment in these institutions and their increasing inaccessibility to the poor, due to preoccupa-tion to market the facilities to patients who can afford to pay. Medical education the cradle of the profession at all levels - under graduate, postgraduate paramedical

is far from satisfactory due to a variety of reasons. Admission on reserved quotas still persists in some colleges and the recent fiasco of willful absence for the whole year of a professor posted at Peoples Medical College Nawabshah --running a private clinic at Hyderabad in the meantime is neither an extreme nor an isolated example. There is a mushroom growth of private medical colleges/ universities. The PMDC, College of Physicians and Surgeons of Pakistan and University Grants Commission

The quality of education imparted

quandary.

have limited statutory powers, are incompetent, and lack coordination among them and with the Universi-Health and education are the last priorities of any Government, both conceptually and financially due to lack of commitment to social sector and diverse preferences. The present

regime cannot be an exception. It is, therefore, no wonder there are di-verse, confusing and controversial signals emanating from various quarters. Having been a witness to con-temporary history in Pakistan one tends to become immune to surprises. However one cannot refrain from commenting on them. It would be pertinent to investigate as to why the Rules and Regulations of autonomy to the hospitals have not

been framed for three years, why one of the chief executives has resigned in protest and the others are frustrated. What was the alleged hidden agenda and how the scheme has been sabotaged. What are the reasons for not carrying out a third party evaluation of the scheme and if one has been instituted why its report has not been made public? How has the PMDC recognised so many medical colleges and others are allowed to function without recognition, one of them at Lahore has affiliated a teaching hospital with 20 beds with no infrastruc-ture of any kind. Is there a uniform

stated policy on the basis of which a university charter is granted and were the conditions fulfilled by so many newly-established universities and if

so why has it become expedient now

enforcing strict accountability at all levels. The profession must be given due recognition which in turn should rise up to the expectations of the nation by a process of self-regula-The challenges thrown up by everchanging demographic and socio-economic realities, dramatic techno-

logical and biomedical advances and information explosion, call for major shifts in the paradigms in teaching

and practice of medicine.

external agencies. The District Devolution Plan deals with only a minor

portion of the health care problems and the piecemeal approach is bound

to be fruitless unless the whole system is dealt with in its entirety A sustainable comprehensive Na-

tional Health Policy should have a sense of direction with short, me-

dium and long-term goals based on

fundamental structural reforms. The Government may be well advised to make a concerted effort to achieve

this goal, to earn the lasting gratitude

of its people. The primary objective of a health policy is equitable access to health care to every citizen. The

basic issues to be addressed are definition of the respective roles of the

federal and provincial governments, declaration of intent regarding the extent and mode of public private partnership in health delivery system

and mechanism to regulate both of

them with proper autonomy of insti-

tutions, balancing the relative devel-

opment of curative/public health and primary/secondary and specialized

care based on estimates of actual needs of the community. Medical education at all levels and of all cat-

egories has to be redesigned according to valid projections of require-

ments of each. The much denounced private practice can only be control-

led by recasting the service structure of doctors both teaching and non

teaching, nurses and paramedics and

providing incentives adequately comparable to their market value and

The vision required for radical reforms cannot be expected to be found among the bureaucratic set up in the ministry and departments of health. They will require massive extramural inputs from informed quarters. They will have to induct autonomous

"cells for health policy planning and development studies" with major participation of private resource persons and groups. The institutions like PMDC, PMRC and UGC should be strengthened with revision of their mandate, constitution and composi-

tion to enable them to play a worth-

Implementation of policies is the most important part of good govern-ance. Many a policy fail due to faulty implementation. Qualified high calibre medical managers fortified with requisite infrastructure support

while role.

should be entrusted with the respon-sibility of carrying out the dictates of the policies. The author is the former Professor

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