Fresh hope in new Aids treatment

By OTULA OWUOR
Science Editor

One of the major symptoms indicating that a person infected with the Aids virus is approaching the sinal stages of the disease is the appearance of candidiasis, a fungal infection causing thrush in the mouth, throat, the alimentary canal and reproductive organs.

Although oral thrush by the fungi Candida albicans is common in people without the Aids virus — resulting even from too much use of antibiotics — it can stop the Aids patients from eating and causes diarrhoea when it spreads to the large and small intestines. This way it endangers the lives of those whose body defence systems are already depressed.

depressed.

Therefore, doctors are beginning to use new drugs and better clinical methods to manage Aids patients instead of doing nothing because there is no cure for it.

However, before discussing the treatment for fungal infections in Aids victims, there is need to deal with some of the general aspects of Aids tragedy in Africa.

The disease is potentially the biggest health problem facing African countries where basic health education and biomedical facilities are very limited.

Still, the socio-economic impact of the disease boggles the minds of those trying to control the epidemic. The number of Aids arphans – children whose partial die from Aids – may reach a million within the decade

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Globally, World Health
Organisation experts estimate
that there may be up to 50 million people with the Aids virus
within the same period

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However, the original fear of the disease which made some doctors avoid treating Aids patients is diminishing. It is nowadays realised that the Human Immune Deficiency Virus (HIV) which causes Aids is not very contagious and sexual intercourse is still the major mode of transmission. But it is a rapidly mutating virus which might produce more lethal and resistant forms.

Although Aids has no cure, doctors constantly try to treat patients in order to prolong their lives and make them more productive. Even general publications dealing with Aids nowadays

contain sections on treatment of the disease.

Recently, a London-based international newsletter on Aids prevention and control, Aids Action, carried the information needed to combat fungal infections in patients infected with HIV.

The article was by Professor Ahmed Latif of the University of Zimbabwe's Medical School, who has also conducted clinical trials on Kemron, the anti-Aids drug developed by Kenyan researchers

In Kenya, Prof Arthur Obel, the man who teamed up with the Director of Kenya Medical Research Institute, Dr Davy Koech, to provide the world with the first authoritative information that it may be possible to improve the health of some Aids patients using low-dose oral interferon, has also been using one of the latest anti-fungal compounds to combat candidiasis in Aids patients.

"Because the Aids virus damages our immune system, most Aids patients suffer from opportunistic infections which can be managed to help improve their lives," Prof Obel told the Sunday Nation.

The Professor, who once took two years off the University of Nairobi Medical School to plunge into intensive research at Kemri, said initial results from the use of one of the latest drugs in the treatment of systemic fungal infection indicated that it could eliminate thrush or infection by Candida in Aids patients.

"The thrush can extend into the throat, stomach and small intestines, besides the genitals, but the loss of appetite and extreme thinness in some patients can be linked to their failure to eat and swallow because of sores in the mouth and throat," he said.

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Prof Obel was not willing to discuss details of his work until it is reviewed and launched by fellow scientists in Mombasa in the second week of June

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However, the Sunday Nation learnt that the new drug is a compound first developed in 1980 at Janssen Research Foundation in Belgium and is less toxic than some of the traditional antibiotics.

Indeed, the biggest problem

indeed, the biggest problem with original anti-fungal drugs is

their side effects which may include the depression of bone marrow.

This can be lethal when used on Aids patients who already have a depressed immune system. Indeed, a common compound like potassium iodide can be effective against fungal infections but it is only for external use. The same is true for an antibiotic like Nystatin.

Nystatin.

The emergence of Aids has resulted in a rush to develop less toxic drugs that may be used to treat those who may acquire fungal systemic infections and need to use drugs repeatedly because of their depressed immune system.

Health officials have feared that new drugs that are safer and

more effective against infections acquired by Aids patients may not reach Africa. But this may not be so. It also means that Aids patients in Africa, who die faster than their counterparts in the developed world, may have a chance to improve their lives.

to improve their lives.

The drug is also being tested in other parts of the world and the experts will compare notes and face other questions during the launching in Mombasa.

Those who tolerate chemistry mouthfuls can be told that the new drug belongs to the triazoles which form five-sided rings with two carbon and three nitrogen atoms. Triazoles in turn belong to imidazoles which are heterocyclic nitrogen compounds.

The Professor said: "It is im-

portant that we conduct our own trials on new drugs instead of just relying on data and information from elsewhere, especially the developed nations. If a drug is proving useful, there is no need of hiding the information and I will be in a position to give you all the details you need after the launching."

launching."
Prof Obel's reluctance to fully disclose the details of the drug may be linked to the rather "noisy" reception given to Kemron. However, it remains a fact that without the work of his team, the world would not be having the increasing clinical trials to determine the potentially positive effects of the drug which is now being examined by the Ministry of Health.

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Prof Obel: A breakthrough?

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Battle against the big scourge hots up

Vashington: From truck stops in anzania to movie houses in ganda, Aids prevention is maked dramatic strides but is still ing the race to the deadly disse, according to a US Governant report.

In an annual report to Conss on Aids, the Agency for Innational Development said to a continues to be the contimost affected by Acquired une Dificiency Syndrome. It close to six million adults ind by the Aids-producing Hivs and 700,000 adults Aids s, according to the report. Inless effective prevention grammes are started now, the thing could occur in many ntries of Asia, the Near East, in America and the Caribbethe report said.

he report on prevention and trol of Aids in the developing all highlights several prommes, including one to dispute condoms at truck stops in brania.

t one stop, a guest house ownwith the nickname "Bwana dom" and his associates were to distribute about 20,000 a hth.

ther successes noted by the prt include a social marketing gramme that has sold over 2 ion condoms in Cameroon, a vision campaign in the Dopican Republic and a movie, need by the agency, shown

commerically in Uganda.

"We have developed and honed the tools needed to fight the disease. We know how to prevent and control its spread," said Ronald W. Roskens, administrator of the agency, in a letter accompanying the report.

But he said Aide "is outpassing

nying the report.

But, he said, Aids "is outpacing our efforts to contain it."

The report potential presents and presents are also as a second present and present and presents are also as a second present and present and

The report noted projections by the World Health Organisation that a cumulative total of up to 25 million people could be infected with Aids by the end of the decade, including 10 million infants and children.

The incurable disease is spread most often through sexual contact, needles or syringes shared by drug abusers, infected blood or blood products, and from infected pregnant women to their offspring.

offspring.

The chief victims of Aids have been homosexual men and intravenous drug abusers. Health officials estimate that heterosexual contact is responsible for 4 per cent of cases.

It said some of the most alarming increases in Aids and Hiv infection have been outside Africa:

— In Bangkok, Thailand, Hiv infection among drug users is up from less than 1 per cent in 1988 to 50 per cent in 1990. — In Bombay, India, infection in a group of 1,000 prostitutes rose from 1.6 per cent to 23 per cent in less than two years.