

## Biotron completes clinical stage of HIV trial

14 December 2012 | News | By BioSpectrum Bureau



**Singapore:** Australian drug development company Biotron has completed the clinical stage of a landmark phase Ib/IIa proof-of-concept human trial of its lead HIV drug candidate, BIT225.

The placebo-controlled, double-blinded study was undertaken at an international clinical trial unit in Bangkok, Thailand. Patients enrolled in the trial were HIV-positive, with high levels of virus and good CD4 T cell counts, and had not previously received treatment with anti-retroviral drugs. Patients received either BIT225 (300 mg twice daily) or placebo for a period of ten days.

Laboratory analyses on samples collected from the patients are now in progress. Preliminary data from the trial are anticipated to be available during the first quarter of 2013. Biotron scientists have previously established that BIT225 is able to inhibit replication of the HIV virus in monocyte lineage cells in which the virus has been able to 'hide' from current drug treatments.

While current approved HIV drugs have resulted in reduction of HIV levels in the blood, they have not been effective in eliminating virus from underlying reservoirs such as monocyte lineage cells. Treatment and elimination of HIV from reservoirs remains a major therapeutic challenge.

The aim of this trial is to demonstrate the safety and pharmacokinetics of the drug in HIV infected patients and to measure the ability of BIT225 to reduce HIV loads in HIV-infected reservoir cells. By specifically targeting HIV in reservoir cells, Biotron's BIT225 offers the potential to stop the ongoing cycle of infection in the body.

BIT225 is synergistic with commonly used anti-retroviral therapies and would potentially be used in conjunction with these treatments. BIT225 is also in development for treatment of hepatitis C virus (HCV). In a recent phase IIa trial, 100 percent of patients receiving BIT225 (400 mg) in combination with interferon and ribavirin had undetectable virus after 48 weeks. A phase II trial of BIT225 in patients co-infected with both HIV and HCV is currently in progress.