

# Optimal HIV Medications in Pediatric Patients

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## **Scope of the lecture:**

The lecture will provide an overview of the most recent approaches to using antiretroviral drugs to prevent mother-to-child transmission of HIV infection mothers during pregnancy, delivery and throughout breastfeeding. The lecture will also provide an update on the therapeutic management of HIV in infants, children and adolescents living with HIV. Special attention will be placed on the pharmacokinetics and pharmacodynamics of the antiretroviral drugs in pediatric populations with the focus on the role of therapeutic drug monitoring in improving the outcome of HIV treatment.

## **Learning objectives:**

1. To learn about current approaches to the antiretroviral prophylaxis of the transmission of HIV infection.
2. To understand the developmental challenges in developing and using antiretroviral drugs in infants, children and adolescents.
3. To define the therapeutic pharmacokinetic and pharmacodynamic targets of antiretroviral treatment in pediatric populations living with HIV.