Page 1 of 1

metabolisers and may be at risk of EFV toxicity.8

forms when adverse reactions are suspected.

with standard doses of EFV.

effects are a problem.

addressed to the email below: Tel: +27 (0)12 395 9506/8099 Fax2email: 086 241 2473 Email: npc@health.gov.za

Currently, efavirenz (EFV) is widely prescribed as part of antiretroviral therapy (ART) in South Africa,

Efavirenz has been linked to early (two to six weeks¹) transient as well as late neuropsychiatric

effects, which include increased risk of suicidal ideation,² encephalopathy,³ catatonia,⁴ psychosis

and ataxia.^{5,6} All of these have been directly linked to EFV toxicity. The risk for toxicity has been

associated with loss of function polymorphisms of cytochrome 2B6, the main metabolising

enzyme for EFV.7 It is estimated that about 20% of sub-Saharan Africans are genetically slow

Clinicians should be aware that weight is another factor that predisposes a patient to EFV

toxicity, and it is recommended that patients weighing less than 40 kg should be prescribed a

reduced dose of 400 mg.⁵⁹ There are no FDCs with a reduced EFV dose available in South Africa,

and underweight patients are often over-dosed as healthcare workers often prescribe the FDC

Efavirenz toxicity should be considered in patients who present with depression, psychosis,

catatonia, encephalopathy or ataxia after the first few weeks of therapy when other causes are

excluded. These include renal failure, liver failure, vitamin B12 deficiency, syphilis, meningitis

and structural brain lesions. Once suspected, it is recommended that EFV be switched to lopinavir

or ritonavir. If patients are on first-line tuberculosis medication, the dose of lopinavir or ritonavir

needs to be increased, and this can be done over two weeks if gastrointestinal tract (GIT) side

Healthcare professionals are requested to be vigilant and report any suspected adverse drug

reaction (ADR) when using antiretroviral (ARV) drugs. Please complete adverse drug reaction

Adverse drug reaction forms can be obtained from the National Department of Health Pharmacovigilance Centre for Public Health Programmes. Any comments and queries can be

and it is most frequently prescribed in fixed-dose combination (FDC) at a dose of 600 mg.



Efavirenz and neuropsychiatric effects



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