FDA Advisory Committee Briefing Document VireadTM (Tenofovir DF) NDA 21-356

Errata

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3.4 Mitochondrial toxicity

In vivo, no evidence of mitochondrial-related hepatic, hematologic, cardiac, pancreatic, or skeletal muscle toxicity was detected in chronic toxicity studies (42-weeks) in rats and dogs. *An in vivo study to further evaluate potential mitochondrial effects is ongoing in woodchucks*.

3.5 Nonclinical Pharmacology and Toxicology

The nonclinical safety profile of adefovir dipivoxil tenofovir DF has been extensively evaluated in pharmacokinetic/ADME, pharmacology, and toxicology studies using test systems and protocols accepted by the ICH and international health authorities.

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3.5.1 Safety Pharmacology

An assessment of effects on renal function demonstrated increased decreased urinary electrolyte excretion and urine volume in rats administered tenofovir DF 500 mg/kg; no effect was observed at 50 mg/kg.

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3.5.3.1 Gastrointestinal toxicity

No GI toxicity occurred in monkeys administered tenofovir DF for 56 days at doses up to 50 mg/kg/day 250 mg/kg/day.

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3.5.3.3 Bone

Monkeys treated chronically with tenofovir (sc) 10 mg/kg/day (AUC - 8X humans) (AUC - 4X humans), had no clinical or radiographic evidence of bone toxicity, and animals who were dose-reduced from 30 mg/kg/day to 10 mg/kg/day showed improvement in bone parameters.

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3.5.4 Genetic and Reproductive Toxicity

In a study of effects on peri- and postnatal development in rats, reduced survival in the F1 generation was observed and was considered to be due to maternal toxicity with resultant lack of adequate maternal care at doses of 450and 600 mg/kg/day.

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Gilead Sciences, Inc. 6 September 2001