Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection

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### Table 15K. Antiretroviral-Therapy-Associated Adverse Effects and Management Recommendations—Peripheral Nervous System Toxicity  
(last updated May 22, 2018; last reviewed May 22, 2018)

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<th>Adverse Effects</th>
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</table>
| ARV Toxic Neuropathy<sup>b</sup> | d4T, ddI | Onset:  
- Weeks to months  
Presentation:  
- Decreased sensation  
- Aching, burning, painful numbness  
- Hyperalgesia  
- Allodynia  
- Decreased or absent ankle reflexes  
Distribution:  
- Bilateral soles of feet, ascending to legs and fingertips | Children:  
- Around 1% overall  
- 10% to 25% in children taking d4T  
Adults:  
- Up to 50% in adults taking d4T | Pre-existing neuropathy  
- Elevated triglyceride levels  
- Poor nutrition  
- More advanced HIV disease  
- Concomitant use of other neurotoxic agents (e.g., INH)  
- Some mitochondrial DNA haplogroups may have increased risk. | Do not use d4T, ddI, or IDV. Co-administration of ddI and d4T is contraindicated (no exceptions). | Investigate potential causes, including non-ARV medications and nutritional deficiencies. |

<sup>a</sup> Peripheral neuropathy may be underreported in children because symptoms are difficult to evaluate in young children.

<sup>b</sup> HIV infection itself may cause a distal sensory neuropathy that is phenotypically identical to ARV toxic neuropathy.

**Key to Acronyms:** ARV = antiretroviral; d4T = stavudine; ddI = didanosine; IDV = indinavir; INH = isoniazid; PI = protease inhibitor; the Panel = The Panel on Antiretroviral Therapy and Medical Management of Children Living with HIV

**References**


