

Selected Antiretroviral Drug Interaction Resources

From the National HIV/AIDS Clinicians' Consultation Center (NCCC)

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The table below provides some online references to help evaluate and manage drug-drug interactions with antiretrovirals. The NCCC does not endorse any specific sites. Note that most drug-drug interaction data address interactions between two drugs. Therefore interactions among 3 drugs or more may not be adequately described by the information provided in these tables. Clinicians with drug interaction inquiries may also call the Warmline weekdays from 5 am to 5 pm Pacific Time at **800-933-3413**. HIV expert physicians, clinical pharmacists, and nurse practitioners staffing this line are available to discuss HIV clinical issues, including drug interactions.

WEBSITE	COMMENTS	STRENGTHS	LIMITS
<p>The official Public Health Service (PHS) Guidelines for the Use of Antiretroviral Agents in HIV-Infected Adults and Adolescents</p> <p>http://aidsinfo.nih.gov/Guidelines/Default.aspx?MenuItem=Guidelines</p>	<p>Downloadable drug interaction tables</p> <p>Part of a comprehensive guideline for use of antiretrovirals in HIV-infected adults and adolescents</p>	<p>Easy to use</p> <p>Tables organized by ARV drug classes and interacting drug classes (e.g. lipid lowering agents).</p> <p>Provides specific changes in drugs levels and mechanism of interaction</p> <p>Provides interaction management advice</p>	<p>Specific interactions not referenced in the tables</p> <p>Limited OTC, herbal, and recreational drug interactions information</p> <p>Not searchable by drug name</p>
<p>CDC Updated TB/HAART drug interaction guidelines</p> <p>http://www.cdc.gov/nchstp/tb/tb_hiv_drugs/Table1.htm</p> <p>http://www.cdc.gov/nchstp/tb/tb_hiv_drugs/Table2.htm</p>	<p>Downloadable drug interaction table</p> <p>Good compilation of data for rifampin and rifabutin interactions with PIs and NNRTIs</p>	<p>Easy to use</p> <p>Tables organized by PIs and NNRTIs</p> <p>Provides specific changes in drugs levels</p> <p>Provides interaction management advice for ARV and TB treatments</p>	<p>Specific interactions not referenced in the tables</p> <p>Some recommendations based on limited data</p> <p>Not searchable by drug names</p>
<p>HIV InSite Database of Antiretroviral Drug Interactions</p> <p>http://www.hivinsite.com/InSite.jsp?page=ar-00-02</p>	<p>Searchable database, specific to ARVs</p> <p>Searchable by ARV drug, interacting drug, or interacting drug class</p> <p>The user chooses a drug class from a drop-down menu</p>	<p>Well-referenced website (including data from abstracts at scientific conferences)</p> <p>Provides mechanism and potential effect of interaction</p> <p>Provides interaction management advice</p> <p>Herbals, recreational drugs, and alcohol interactions can be checked</p>	

WEBSITE	COMMENTS	STRENGTHS	LIMITS
<p>Toronto General Hospital Immunodeficiency Clinic http://www.tthivclinic.com/interact_tables.html</p>	<p>Downable drug interaction tables focusing on ARVs</p> <p>Tables are organized by drug class</p>	<p>Well-referenced</p> <p>Provides extensive interaction data and management advice</p> <p>Includes tables with recreational drugs</p>	<p>Not searchable for drug names</p> <p>Some drug names are Canadian brands</p>
<p>Discovery Health Drug Interaction Checker http://health.discovery.com/encyclopedias/checker/checker.jsp?jsp</p>	<p>General drug interaction website with a searchable database</p> <p>User builds a medication regimen to analyze</p> <p>Assesses the severity of the interaction</p>	<p>Very comprehensive list of medications</p> <p>Provides specific changes in drug levels</p> <p>Provides interaction management advice</p> <p>Checks drug-food interactions</p> <p>Able to check interactions between multiple medications</p>	<p>Not referenced</p> <p>Contains drug advertisements</p>
<p>Liverpool Pharmacology Group http://www.hiv-druginteractions.org/</p>	<p>Chart building drug interaction site, focusing on ARVs</p> <p>User builds a regimen from a list of commonly used medications</p> <p>Contains other pharmacology topics aside from interactions</p>	<p>Easy to use</p> <p>Contains referenced pharmacokinetic information on dual boosted PI regimens</p> <p>Includes section on street drug interactions</p> <p>Able to check multiple medications at the same time</p>	<p>Not referenced</p> <p>General information and no specific advice on management of interaction</p> <p>Some drug names differ from American products</p>
<p>Indiana University's CYP450 Table http://medicine.iupui.edu/flockhart/</p>	<p>A list of CYP450 enzyme substrates, inhibitors and inducers</p> <p>Drugs are organized by enzyme substrate and drug class</p>	<p>Each drug in the table is linked to its reference</p> <p>Frequently updated</p> <p>Includes non-HIV medications</p>	<p>Does not provide any drug interaction data, interaction management advice</p> <p>Not a comprehensive list</p>
<p>AidsMeds.com, Check My Meds http://www.aidsmeds.com/cmm/DrugsNewContent.asp</p>	<p>Searchable database focusing on ARVs drug interactions</p> <p>Users build a drug list by searching for drug names</p> <p>Analysis of interactions are classified into major, moderate, or minor</p>	<p>Easy to use</p> <p>Site contains extensive list of medications, including herbals, OTC, and recreational drugs</p> <p>Provides mechanism of interaction</p> <p>Provides interaction management advice</p> <p>The site automatically checks for food interactions</p>	<p>Not referenced</p> <p>Geared towards patients, not clinicians</p>

WEBSITE	COMMENTS	STRENGTHS	LIMITS
HIV Tools --- Drug Interaction Tool http://www.hivtools.com/	Website focusing on ARVs User chooses ARV drugs from pull down menu Registration (free) required to use tool	Each interaction is referenced Provides informational sections on therapeutic drug monitoring, individual ARVs, and investigational drugs Free registration	Does not give mechanism or specifics of interaction Only able to check two drugs at a time

RECENT DRUG-INTERACTION REVIEW ARTICLES

Liedtke MD, Lockhart SM, Rathbun RC. Anticonvulsant and antiretroviral interactions. *Annals of Pharmacotherapy*. 2004 Mar;38(3):482-9. Epub 2004 Jan 23.

Farragon JJ, Piliero PJ. Drug interactions associated with HAART: focus on treatments for addiction and recreational drugs. *AIDS Read*. 2003 Sep;13(9):433-4, 437-41, 446-50.

Piscitelli SC, Gallicano KD. Drug Therapy: Interactions among Drugs for HIV and Opportunistic Infections. *NEJM* 2001 Mar 29; 344(13):984-996.

Tseng AL, Foisy MM. Significant interactions with new antiretrovirals and psychotropic drugs. *Annals of Pharmacotherapy* 1999; 33:461-73.

GENERAL DRUG INTERACTION RESOURCES

Books/Texts

Micromedex
 AHFS Drug Information
 Facts and Comparisons
 Clinical Drug Data Handbook
 Hansten&Horn's Drug Interactions

Websites

<http://www.micromedex.com/> (requires a subscription)
<http://www.factsandcomparisons.com> (requires a subscription)
<http://www.rxlist.com> (free)
<http://www.crlonline.com/crlsql/> (requires a subscription)