

# HIV Drug Fatality

a comparison of fatality rates for different HIV drugs based on Eudra-vigilance data.

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**DATA SOURCE** : Eudra Data : [DropBox \[311 Mb zip\]](#)

Here are the dataset columns :

Unnamed: 0	DATE	PATHOLOGY	DRUG	INGREDIENTS	SYMPTOM	SEVERITY	
25243155	17599362	2018-02-19 00:00:00	hiv infection - drug withdrawn -	ABACAVIR, LAMIVUDINE	ABACAVIR, LAMIVUDINE	Sepsis	n/a - Unknown - Results in Death, Other Medica...
25243781	17599988	2017-07-24 00:00:00	(i - hiv infection - not applicable -	KALETRA	LOPINAVIR, RITONAVIR	AIDS related complication	n/a - Unknown - Results in Death, Caused/Prolo...
25243782	17599989	2017-07-24 00:00:00	(i - hiv infection - not applicable -	KALETRA	LOPINAVIR, RITONAVIR	Drug interaction	n/a - Unknown - Results in Death, Caused/Prolo...
25243783	17599990	2017-07-24 00:00:00	(i - hiv infection - not applicable -	KALETRA	LOPINAVIR, RITONAVIR	Gastroenteritis	n/a - Recovering/Resolving - Results in Death,...
25243784	17599991	2017-07-24 00:00:00	(i - hiv infection - not applicable -	KALETRA	LOPINAVIR, RITONAVIR	Sudden death	n/a - Fatal - Results in Death, Caused/ Prolong...

## METHOD :

I filtered the PATHOLOGY column for "HIV", so I only had reports of treatment for "HIV". Then I counted number of reports for each drug used in the treatment of HIV.

I filtered the data a second time. This time I filtered the PATHOLOGY column for "HIV" AND filtered SEVERITY column for "fatal". Then I counted the number of reports for each drug used in the treatment of HIV where outcome was fatal.

By dividing the second count by the first, I obtained the percentage of reports for each drug that resulted in fatality.

## RESULTS :

DRUG	CASES	FATALITY	%
EPIVIR 150 MG FILM-COATED TABLETS	241	59	24.48
VIRAMUNE 200 MG TABLETS	146	33	22.60
VIREAD 245 MG FILM-COATED TABLETS	130	27	20.77
KALETRA SOFT CAPSULES	212	41	19.34
CRIXIVAN 400 MG HARD CAPSULES	244	36	14.75
VIRAMUNE	1824	252	13.82

ENFUVRTIDE	664	78	11.75
SUSTIVA	757	81	10.70
EMTRIVA	1272	136	10.69
ISENTRESS	5784	579	10.01
ABACAVIR, LAMIVUDINE	677	62	9.16
EFAVIRENZ	7394	620	8.39
SAQUINAVIR	380	30	7.89
STAVUDINE	370	29	7.84
PEGASYS	106	8	7.55
LAMIVUDINE	6965	525	7.54
ETRAVIRINE	165	12	7.27
FORTOVASE	501	36	7.19
INTELENCE	1488	100	6.72
PREZISTA	566	37	6.54
RALTEGRAVIR	246	16	6.50
NEVIRAPINE	1830	117	6.39
KALETRA ORAL SOLUTION	145	8	5.52
KIVEXA	1647	87	5.28
KALETRA	15495	783	5.05
DOLUTEGRAVIR	2809	139	4.95
TIVICAY	2090	98	4.69
EMTRICITABINE/TENOFOVIR DISOPROXIL MYLAN	173	8	4.62
FOSAMPRENAVIR	260	12	4.62
ATAZANAVIR SULFATE	4671	212	4.54
DARUNAVIR	3488	152	4.36
VIRAMUNE TABLETS	403	17	4.22
CRIXIVAN	4779	200	4.18
INDINAVIR SULFATE	218	9	4.13
EPIVIR	5615	229	4.08
VIRACEPT	172	7	4.07
DESCOVY	2721	109	4.01
KALETRA 200 MG/50 MG FILM-COATED TABLETS	1002	40	3.99
RITONAVIR	995	39	3.92
COMBIVIR	11544	448	3.88
ISENTRESS 400 MG FILM-COATED TABLETS	572	22	3.85
INDINAVIR	1133	43	3.80
TIVICAY FILM-COATED TABLETS	644	24	3.73
INVIRASE	1867	65	3.48
TIVICAY FILM-COATED TABLET	836	29	3.47
EMTRICITABINE, TENOFOVIR DISOPROXIL FUMARATE	1712	58	3.39
TRIUMEQ FILM-COATED TABLETS	675	22	3.26
ATAZANAVIR	7057	230	3.26

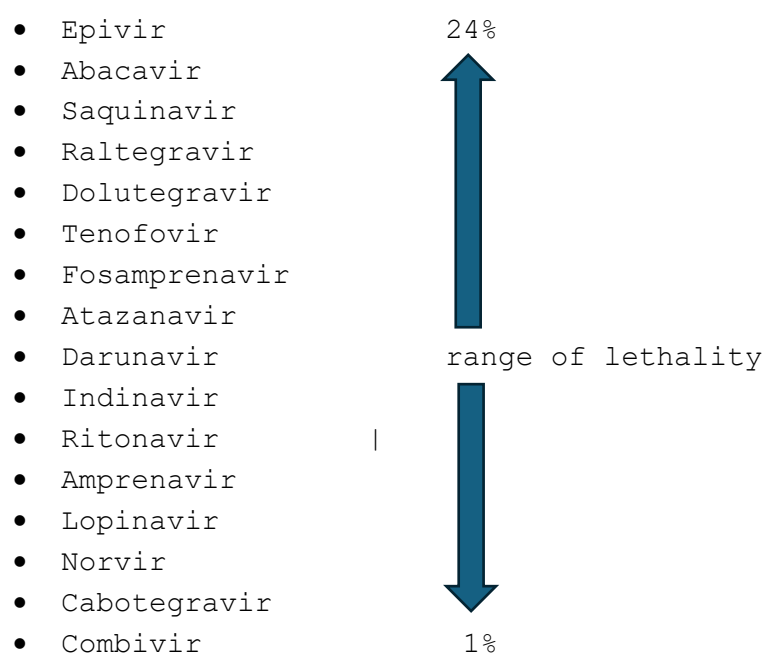
ATAZANAVIR + RITONAVIR	126	4	3.17
ATRIPLA 600 MG/200 MG/245 MG FILM-COATED TABLETS	639	20	3.13
TRIZIVIR	130	4	3.08
ABACAIVIR	9735	295	3.03
COBICISTAT	403	12	2.98
AMPRENAVIR	372	11	2.96
STRIBILD 150 MG/150 MG/200 MG/245 MG FILM-COATED TABLETS	282	8	2.84
EMTRICITABINE	2381	67	2.81
ZIDOVUDINE, LAMIVUDINE	328	9	2.74
TENOFOVIR DISOPROXIL FUMARATE	975	26	2.67
TENOFOVIR DISOPROXIL	226	6	2.65
LOPINAVIR, RITONAVIR	2015	53	2.63
CELSENTRI	1066	27	2.53
NORVIR 100 MG FILM-COATED TABLETS	240	6	2.50
STOCRIN	515	12	2.33
EMTRICITABINE, TENOFOVIR ALAFENAMIDE, COBICISTAT, ELVITEGRAVIR	142	3	2.11
EMTRICITABINE, EFAVIRENZ, TENOFOVIR DISOPROXIL FUMARATE	198	4	2.02
SYM TUZA	823	16	1.94
FUZEON	361	7	1.94
EMTRICITABINE, TENOFOVIR ALAFENAMIDE	158	3	1.90
BIKTARVY	12497	236	1.89
NORVIR	5730	108	1.88
TRIUMEQ FILM-COATED TABLET	955	18	1.88
VIREAD	10283	191	1.86
TRUVADA 200 MG/245 MG FILM-COATED TABLETS	764	14	1.83
NORVIR 100MG SOFT CAPSULE	219	4	1.83
GENVOYA	2960	51	1.72
KIVEXA 600 MG/300 MG FILM-COATED TABLETS	179	3	1.68
REKAMBYS 900 MG PROLONGED-RELEASE SUSPENSION FOR INJECTION	120	2	1.67
ABACAIVIR SULFATE	2381	38	1.60
REKAMBYS	564	9	1.60
AGENERASE	321	5	1.56
EPIVIR FILM-COATED TABLETS	399	6	1.50
EDURANT	761	10	1.31
REYATAZ	2773	36	1.30
ABACAIVIR SULFATE, LAMIVUDINE	1079	14	1.30
EVIPLERA	406	5	1.23
ZERIT	493	6	1.22

TRIUMEQ 50 MG/600 MG/300 MG FILM-COATED TABLETS	605	7	1.16
CABOTEGRAVIR	1042	12	1.15
MARAVIROC	189	2	1.06
COMBIVIR 150 MG/300 MG FILM-COATED TABLETS	290	3	1.03
DOVATO	912	9	0.99
EMTRICITABINE, TENOFOVIR DISOPROXIL	307	3	0.98
ODEFSEY	109	1	0.92
ZIAGEN	3165	28	0.88
TRIUMEQ	2156	17	0.79
APTIVUS	859	6	0.70
TRUVADA	192838	1045	0.54
REYATAZ HARD CAPSULES	217	1	0.46
STRIBILD	57401	226	0.39
BIKTARVY 50 MG/200 MG/25 MG FILM-COATED TABLETS	1094	4	0.37
ATRIPLA	354790	1190	0.34

## OBSERVATIONS

The majority of the drugs used to treat HIV have names ending in the letters "VIR", and belong to the same family of drugs as REMDESIVIR - **the anti-retro-viral drugs.**

The results suggest that anti-retro-viral drugs may vary in lethality -



If you must choose an anti-retro-viral, then choose one with a lower lethality.

Anti-retro-virals owe their lethality to causing liver and kidney damage that results in systemic poisoning - [REMDESIVIR](#)

But beware, because some of the anti-retro-virals may have low lethality, but they also have other effects - effects that may be worse than death. For example, ATRIPLA has a low lethality, but it does this - [ATRIPLA](#).

### **CARRY OUT YOUR OWN SEARCHES**

You can check these effects for yourself using the EU Safety Signal search engine. Just enter the name of the drug, and you will get a readout of all its symptoms. If you click the pdf button you can print off a report that you can share. It's important to share.

[ESS SEARCH](#)