

## SUPPLEMENTARY MATERIAL

Table S1. PubMed Search Strings for Long-term Toxicity and Tolerability (Conducted January 16, 2017)

Search #	Topic	Search string	Results (1/16/2017)
1	Disease	((Human immunodeficiency virus[tiab] OR HIV[tiab] OR Acquired immunodeficiency syndrome[tiab] OR AIDS[tiab]) AND (combination antiretroviral therapy[tiab] OR antiretroviral therapy[tiab] OR CART[tiab] OR ART[tiab]))	34913
2	Human	Human[MH]	16,191,688
3	Toxicity and tolerability	(toxic* [tiab] OR peripheral neuropathy[tiab] OR pancreatitis[tiab] OR lactic acidosis[tiab] OR dyslipidemia[tiab] OR dysglycemia[tiab] OR insulin resistance[tiab] or diabet*[tiab] OR osteopenia[tiab] or osteoporosis[tiab] OR lipodystrophy[tiab] OR hepatotoxicity [tiab] OR end-stage renal disease[tiab] OR ESRD[tiab])	1,225,587
4	Long term	("long-term"[tiab] OR "long term"[tiab] OR chronic[tiab] OR "extended use"[tiab])	1,517,304
5	Filters	Filter: Publication date from 2015/4/01 – [date of search], Full Text	N/A
6	Final Toxicity Search	All combined	77

Table S2. PubMed Search Strings for Long-term Economic Burden (Conducted January 16, 2017)

Search #	Topic	Search string	Results (1/16/2017)
1	Disease	Human immunodeficiency virus[ti] OR HIV[ti] OR Acquired immunodeficiency syndrome[ti] OR AIDS[ti]	242,111
2	Treatment	treatment[ti] OR therapy[ti] OR CART[ti] OR ART[ti]	1,449,437
3		dolutegravir[tiab] OR raltegravir[tiab] OR abacavir[tiab] OR lamivudine[tiab] OR Epzicom[tiab] OR zidovudine[tiab] OR Trizivir[tiab] OR didanosine[tiab] OR emtricitabine[tiab] OR tenofovir[tiab] OR Descovy[tiab] OR Truvada[tiab] OR stavudine[tiab] OR zidovudine[tiab] OR delavirdine[tiab] OR efavirenz[tiab] OR etravirine[tiab] OR nevirapine[tiab] OR rilpivirine[tiab] OR atazanavir[tiab] OR Evotaz[tiab] OR atazanavir[tiab] OR darunavir[tiab] OR Prezcoibix[tiab] OR fosamprenavir[tiab] OR indinavir[tiab] OR lopinavir[tiab] OR Kaletra[tiab] OR saquinavir[tiab] OR tipranavir[tiab] OR ritonavir[tiab] OR cobicistat[tiab] OR enfuvirtide[tiab] OR maraviroc[tiab] OR Triumeq[tiab] OR Genvoya[tiab] OR Stribild[tiab] OR Atripla[tiab] OR	30,018

Search #	Topic	Search string	Results (1/16/2017)
		Odefsey[tiab] OR Complera[tiab]	
4		integrase strand transfer inhibitor[tiab] OR INSTI[tiab] OR nucleoside reverse transcriptase inhibitor[tiab] OR nucleotide reverse transcriptase inhibitor[tiab] OR fusion inhibitor[tiab] OR NRTI[tiab] or non-nucleoside reverse transcriptase inhibitor[tiab] OR NNRTI[tiab] OR protease inhibitor[tiab] OR chemokine receptor type 5[tiab] OR CCR5[tiab]	28,052
5		#2 OR #3 OR #4	1,491,493
6	Safety/toxicity	safety[ti] OR adverse event[ti] OR toxicit*[ti]	164,008
7	Economic/ utilization	resource utilization[tiab] OR resource use [tiab] resource util*[tiab]	6338
8		economic*[tiab] OR cost*[tiab] OR indirect cost*[tiab] OR burden*[tiab]	661,448
9		productivity[tiab] OR absentee*[tiab] OR presentee*[tiab] OR work disabilit*[tiab] OR sick leave[tiab] OR sick day*[tiab] OR lost earning*[tiab] OR foregone wage*[tiab] OR lost wage*[tiab]	51,612
10		outpatient visit*[tiab] OR physician visit*[tiab]	6405
11		emergency room*[tiab] OR ER visit[tiab] OR ED visit[tiab] OR emergency	270,420

<b>Search #</b>	<b>Topic</b>	<b>Search string</b>	<b>Results (1/16/2017)</b>
		department*[tiab] OR hospitaliz*[tiab] OR inpatient admission*[tiab] OR length of stay*[tiab] OR hospital day*[tiab]	
<b>12</b>		#7 OR #8 OR #9 OR #10 OR #11	944,766
<b>13</b>	All combined	#1 AND #5 AND #6 AND #12	28