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## **APPENDIX E**

### **DETAILED TABLES ON QUALITY OF LIFE EFFECTS OF NSPs**

Year		1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b>HIV</b>											
<b>Survivors without HIV</b>		786	1,309	2,070	3,153	4,684	6,828	9,797	13,853	19,304	26,488
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	544	887	1,369	2,033	2,950	4,213	5,935	8,255	11,320	15,277
CD4 >500	Undiagnosed	136	222	342	508	738	1,053	1,484	2,064	2,830	3,819
CD4 <500	Diagnosed	47	107	210	373	616	1,004	1,573	2,399	3,585	5,266
CD4 <500	Undiagnosed	5	12	23	41	68	112	175	267	398	585
AIDS	Diagnosed	10	23	44	78	131	192	278	393	540	725
<b>Total</b>		742	1,251	1,988	3,033	4,503	6,574	9,445	13,378	18,673	25,672
<b>Life Years Gained</b>		44	58	82	120	181	254	352	475	631	816
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	473	772	1,191	1,769	2,567	3,665	5,163	7,182	9,848	13,291
CD4 >500	Undiagnosed	128	209	321	478	694	990	1,395	1,940	2,660	3,590
CD4 <500	Diagnosed	36	81	160	283	468	763	1,195	1,823	2,725	4,002
CD4 <500	Undiagnosed	5	11	21	37	61	101	158	240	358	527
AIDS	Diagnosed	6	14	27	48	81	119	172	244	335	450
<b>Total</b>		648	1,087	1,720	2,615	3,871	5,638	8,084	11,429	15,926	21,859
<b>HIV QALYs Gained</b>		138	222	350	538	814	1,190	1,713	2,424	3,378	4,629

Year		1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
<b>HCV</b>											
<b>Survivors without HCV</b>		5,204	6,637	8,114	9,650	11,256	12,949	14,738	16,639	18,663	20,826
<b>Survivors with HCV</b>											
Not Chronic		1,300	1,658	2,028	2,412	2,814	3,236	3,683	4,158	4,665	5,205
Stage 0/1	Diagnosed	2,233	2,822	3,419	4,031	4,663	5,321	6,011	6,737	7,505	8,321
Stage 0/1	Undiagnosed	1,489	1,881	2,279	2,687	3,108	3,547	4,007	4,491	5,004	5,547
Stage 2/3	Diagnosed	132	200	279	372	477	595	727	872	1,031	1,205
Stage 2/3	Undiagnosed	44	67	93	124	159	198	242	291	344	402
Cirrhosis	Diagnosed	3	6	11	18	26	37	51	68	88	112
Cirrhosis	Undiagnosed	1	2	3	4	7	9	13	17	22	28
HCC	Diagnosed	0	0	0	0	0	0	1	1	1	1
Liver Failure	Diagnosed	0	0	1	1	1	2	2	3	4	5
<b>Total</b>		5,202	6,636	8,112	9,648	11,254	12,943	14,734	16,634	18,659	20,820
<b>Life Years Gained</b>		2	1	2	2	2	6	4	5	4	6
<b>Quality Adjusted Life Years</b>											
Not Chronic		1,300	1,658	2,028	2,412	2,814	3,236	3,683	4,158	4,665	5,205
Stage 0/1	Diagnosed	1,831	2,314	2,804	3,305	3,824	4,363	4,929	5,524	6,154	6,823
Stage 0/1	Undiagnosed	1,400	1,768	2,142	2,526	2,922	3,334	3,767	4,222	4,704	5,214
Stage 2/3	Diagnosed	108	164	229	305	391	488	596	715	845	988
Stage 2/3	Undiagnosed	41	63	87	117	149	186	227	274	323	378
Cirrhosis	Diagnosed	2	4	7	13	19	26	36	47	61	78
Cirrhosis	Undiagnosed	1	2	3	3	6	8	11	14	18	24
HCC	Diagnosed	0	0	0	0	0	0	0	0	0	0
Liver Failure	Diagnosed	0	0	0	0	0	1	1	1	1	2
<b>Total</b>		4,683	5,973	7,300	8,681	10,124	11,642	13,249	14,955	16,773	18,712
<b>HCV QALYs Gained</b>		520	664	814	969	1,132	1,307	1,489	1,683	1,891	2,114
<b>All Life Years Gained</b>		45	59	84	122	184	260	356	479	636	821
<b>All QALYs Gained</b>		658	886	1,164	1,507	1,945	2,497	3,202	4,107	5,269	6,742
<b>HIV</b>	<b>NPV All Years @5%</b>		<b>138,072</b>	<b>HCV</b>	<b>NPV All Years @5%</b>	<b>32,207</b>	<b>HIV+HCV</b>	<b>NPV All Years @5%</b>			<b>170,279</b>
	<b>NPV All Years @3%</b>		<b>248,364</b>		<b>NPV All Years @3%</b>	<b>50,041</b>		<b>NPV All Years @3%</b>			<b>298,406</b>
	<b>NPV All Years @0%</b>		<b>715,245</b>		<b>NPV All Years @0%</b>	<b>119,992</b>		<b>NPV All Years @0%</b>			<b>835,237</b>

Year		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>HIV</b>											
<b>Survivors without HIV</b>		26,190	25,898	25,608	25,317	25,035	24,756	24,477	24,208	23,944	23,691
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	12,681	9,833	7,142	4,896	3,230	2,105	1,363	876	560	356
CD4 >500	Undiagnosed	3,170	2,458	1,785	1,224	807	526	341	219	140	89
CD4 <500	Diagnosed	7,551	10,027	12,247	13,901	14,865	15,196	15,094	14,733	14,210	13,603
CD4 <500	Undiagnosed	839	1,114	1,361	1,545	1,652	1,688	1,677	1,637	1,579	1,511
AIDS	Diagnosed	946	1,219	1,521	1,834	2,130	2,392	2,602	2,746	2,828	2,849
<b>Total</b>		25,187	24,651	24,056	23,400	22,684	21,907	21,077	20,211	19,317	18,408
<b>Life Years Gained</b>		1,003	1,247	1,552	1,917	2,351	2,849	3,400	3,997	4,627	5,283
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	11,032	8,555	6,214	4,260	2,810	1,831	1,186	762	487	310
CD4 >500	Undiagnosed	2,980	2,311	1,678	1,151	759	494	321	206	132	84
CD4 <500	Diagnosed	5,739	7,621	9,308	10,565	11,297	11,549	11,471	11,197	10,800	10,338
CD4 <500	Undiagnosed	755	1,003	1,225	1,391	1,487	1,519	1,509	1,473	1,421	1,360
AIDS	Diagnosed	587	756	943	1,137	1,321	1,483	1,613	1,703	1,753	1,766
<b>Total</b>		21,093	20,244	19,367	18,502	17,673	16,877	16,100	15,341	14,593	13,858
<b>HIV QALYs Gained</b>		5,097	5,654	6,241	6,815	7,362	7,879	8,376	8,867	9,351	9,833

<b>Year</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	
<b>HCV</b>											
<b>Survivors without HCV</b>	20,597	20,370	20,145	19,930	19,727	19,538	19,363	19,202	19,053	18,919	
<b>Survivors with HCV</b>											
Not Chronic	5,148	5,091	5,035	4,981	4,930	4,883	4,840	4,799	4,762	4,728	
Stage 0/1	Diagnosed	8,068	7,823	7,586	7,359	7,143	6,937	6,741	6,556	6,379	6,212
Stage 0/1	Undiagnosed	5,379	5,216	5,058	4,906	4,762	4,625	4,494	4,370	4,253	4,142
Stage 2/3	Diagnosed	1,367	1,516	1,654	1,782	1,901	2,012	2,116	2,213	2,304	2,389
Stage 2/3	Undiagnosed	456	505	551	594	634	671	705	738	768	796
Cirrhosis	Diagnosed	139	170	204	241	281	324	369	416	465	517
Cirrhosis	Undiagnosed	35	43	51	60	70	81	92	104	116	129
HCC	Diagnosed	2	2	3	3	3	4	5	5	6	6
Liver Failure	Diagnosed	6	8	9	11	12	14	16	18	20	22
<b>Total</b>	20,592	20,364	20,139	19,923	19,721	19,533	19,357	19,196	19,047	18,913	
<b>Life Years Gained</b>	5	6	6	7	6	5	6	6	6	6	
<b>Quality Adjusted Life Years</b>											
Not Chronic	5,148	5,091	5,035	4,981	4,930	4,883	4,840	4,799	4,762	4,728	
Stage 0/1	Diagnosed	6,616	6,415	6,221	6,034	5,857	5,688	5,528	5,376	5,231	5,094
Stage 0/1	Undiagnosed	5,056	4,903	4,755	4,612	4,476	4,348	4,224	4,108	3,998	3,893
Stage 2/3	Diagnosed	1,121	1,243	1,356	1,461	1,559	1,650	1,735	1,815	1,889	1,959
Stage 2/3	Undiagnosed	429	475	518	558	596	631	663	694	722	748
Cirrhosis	Diagnosed	97	118	142	168	197	226	258	291	325	362
Cirrhosis	Undiagnosed	29	36	43	50	59	68	77	87	97	108
HCC	Diagnosed	0	0	0	0	0	0	1	1	1	1
Liver Failure	Diagnosed	2	3	3	4	4	4	5	6	6	7
<b>Total</b>	18,498	18,284	18,072	17,869	17,678	17,499	17,330	17,176	17,031	16,900	
<b>HCV QALYs Gained</b>	2,099	2,086	2,073	2,061	2,049	2,039	2,033	2,026	2,022	2,018	
<b>All Life Years Gained</b>	1,008	1,253	1,558	1,924	2,357	2,854	3,406	4,002	4,633	5,289	
<b>All QALYs Gained</b>	7,196	7,740	8,313	8,876	9,411	9,918	10,409	10,893	11,373	11,852	

Year		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>HIV</b>											
<b>Survivors without HIV</b>		23,455	23,234	23,037	22,874	22,755	22,693	22,625	22,553	22,470	22,380
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	225	141	88	55	34	21	13	8	5	3
CD4 >500	Undiagnosed	56	35	22	14	9	5	3	2	1	1
CD4 <500	Diagnosed	12,958	12,296	11,638	10,996	10,375	9,781	9,214	8,677	8,165	7,679
CD4 <500	Undiagnosed	1,440	1,366	1,293	1,222	1,153	1,087	1,024	964	907	853
AIDS	Diagnosed	2,824	2,762	2,674	2,569	2,453	2,331	2,208	2,086	1,968	1,855
<b>Total</b>		17,503	16,600	15,715	14,856	14,024	13,225	12,462	11,737	11,046	10,391
<b>Life Years Gained</b>		5,952	6,634	7,322	8,018	8,731	9,468	10,163	10,816	11,424	11,989
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	196	123	77	48	30	18	11	7	4	3
CD4 >500	Undiagnosed	53	33	21	13	8	5	3	2	1	1
CD4 <500	Diagnosed	9,848	9,345	8,845	8,357	7,885	7,434	7,003	6,595	6,205	5,836
CD4 <500	Undiagnosed	1,296	1,229	1,164	1,100	1,038	978	922	868	816	768
AIDS	Diagnosed	1,751	1,712	1,658	1,593	1,521	1,445	1,369	1,293	1,220	1,150
<b>Total</b>		13,143	12,442	11,764	11,111	10,482	9,880	9,307	8,764	8,247	7,757
<b>HIV QALYs Gained</b>		10,312	10,792	11,273	11,763	12,274	12,813	13,318	13,789	14,223	14,623

Year		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>HCV</b>											
<b>Survivors without HCV</b>		18,799	18,693	18,603	18,528	18,469	18,428	18,384	18,334	18,281	18,222
<b>Survivors with HCV</b>											
Not Chronic		4,699	4,672	4,650	4,631	4,617	4,606	4,595	4,582	4,569	4,555
Stage 0/1	Diagnosed	6,054	5,905	5,765	5,634	5,511	5,397	5,284	5,173	5,063	4,955
Stage 0/1	Undiagnosed	4,036	3,937	3,843	3,756	3,674	3,598	3,523	3,449	3,375	3,303
Stage 2/3	Diagnosed	2,469	2,544	2,616	2,683	2,748	2,810	2,867	2,919	2,966	3,008
Stage 2/3	Undiagnosed	823	848	872	894	916	937	956	973	989	1,003
Cirrhosis	Diagnosed	570	625	682	740	800	862	924	987	1,051	1,115
Cirrhosis	Undiagnosed	143	156	170	185	200	215	231	247	263	279
HCC	Diagnosed	7	8	8	9	10	11	11	12	13	14
Liver Failure	Diagnosed	24	27	29	31	34	36	39	42	44	47
<b>Total</b>		18,794	18,687	18,598	18,523	18,466	18,425	18,380	18,330	18,276	18,218
<b>Life Years Gained</b>		5	6	5	5	3	3	4	4	5	4
<b>Quality Adjusted Life Years</b>											
Not Chronic		4,699	4,672	4,650	4,631	4,617	4,606	4,595	4,582	4,569	4,555
Stage 0/1	Diagnosed	4,964	4,842	4,727	4,620	4,519	4,426	4,333	4,242	4,152	4,063
Stage 0/1	Undiagnosed	3,794	3,701	3,612	3,531	3,454	3,382	3,312	3,242	3,173	3,105
Stage 2/3	Diagnosed	2,025	2,086	2,145	2,200	2,253	2,304	2,351	2,394	2,432	2,467
Stage 2/3	Undiagnosed	774	797	820	840	861	881	899	915	930	943
Cirrhosis	Diagnosed	399	437	477	518	559	603	647	690	736	780
Cirrhosis	Undiagnosed	120	131	143	155	168	181	194	207	221	234
HCC	Diagnosed	1	1	1	1	1	1	1	1	1	1
Liver Failure	Diagnosed	8	9	9	10	11	12	12	13	14	15
<b>Total</b>		16,783	16,675	16,585	16,506	16,443	16,395	16,343	16,287	16,227	16,163
<b>HCV QALYs Gained</b>		2,016	2,018	2,018	2,022	2,026	2,034	2,040	2,048	2,054	2,059
<b>All Life Years Gained</b>		5,957	6,640	7,327	8,023	8,734	9,472	10,167	10,820	11,429	11,994
<b>All QALYs Gained</b>		12,328	12,809	13,292	13,785	14,300	14,847	15,358	15,837	16,277	16,682

Year		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>HIV</b>											
<b>Survivors without HIV</b>		22,279	22,170	22,050	21,917	21,772	21,610	21,432	21,234	21,015	20,773
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	2	1	1	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	7,219	6,784	6,371	5,980	5,610	5,258	4,925	4,608	4,307	4,021
CD4 <500	Undiagnosed	802	754	708	664	623	584	547	512	479	447
AIDS	Diagnosed	1,747	1,644	1,546	1,453	1,365	1,281	1,202	1,127	1,056	988
<b>Total</b>		9,770	9,183	8,626	8,097	7,598	7,123	6,674	6,247	5,842	5,456
<b>Life Years Gained</b>		12,509	12,987	13,424	13,820	14,174	14,487	14,758	14,987	15,173	15,317
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	2	1	1	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	5,486	5,156	4,842	4,545	4,264	3,996	3,743	3,502	3,273	3,056
CD4 <500	Undiagnosed	722	679	637	598	561	526	492	461	431	402
AIDS	Diagnosed	1,083	1,019	959	901	846	794	745	699	655	613
<b>Total</b>		7,293	6,855	6,439	6,043	5,671	5,316	4,981	4,662	4,359	4,071
<b>HIV QALYs Gained</b>		14,986	15,316	15,612	15,874	16,101	16,294	16,451	16,572	16,656	16,703



Year		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>HCV</b>											
<b>Survivors without HCV</b>		18,158	18,087	18,009	17,923	17,828	17,723	17,608	17,481	17,342	17,189
<b>Survivors with HCV</b>											
Not Chronic		4,538	4,520	4,501	4,479	4,455	4,428	4,399	4,367	4,332	4,293
Stage 0/1	Diagnosed	4,847	4,741	4,635	4,530	4,425	4,321	4,216	4,112	4,007	3,902
Stage 0/1	Undiagnosed	3,232	3,161	3,090	3,020	2,950	2,881	2,811	2,741	2,671	2,601
Stage 2/3	Diagnosed	3,046	3,079	3,107	3,131	3,149	3,163	3,172	3,176	3,175	3,168
Stage 2/3	Undiagnosed	1,015	1,026	1,036	1,044	1,050	1,054	1,057	1,059	1,058	1,056
Cirrhosis	Diagnosed	1,179	1,243	1,306	1,369	1,432	1,493	1,552	1,611	1,667	1,721
Cirrhosis	Undiagnosed	295	311	327	342	358	373	388	403	417	430
HCC	Diagnosed	14	15	16	17	18	18	19	20	20	21
Liver Failure	Diagnosed	49	52	55	57	60	62	65	67	69	71
<b>Total</b>		18,152	18,081	18,002	17,915	17,819	17,713	17,595	17,469	17,327	17,171
<b>Life Years Gained</b>		6	6	7	8	9	10	13	12	15	18
<b>Quality Adjusted Life Years</b>											
Not Chronic		4,538	4,520	4,501	4,479	4,455	4,428	4,399	4,367	4,332	4,293
Stage 0/1	Diagnosed	3,975	3,888	3,801	3,715	3,629	3,543	3,457	3,372	3,286	3,200
Stage 0/1	Undiagnosed	3,038	2,971	2,905	2,839	2,773	2,708	2,642	2,577	2,511	2,445
Stage 2/3	Diagnosed	2,498	2,525	2,548	2,567	2,582	2,594	2,601	2,604	2,604	2,598
Stage 2/3	Undiagnosed	954	964	974	981	987	991	994	995	995	993
Cirrhosis	Diagnosed	826	870	914	958	1,002	1,046	1,086	1,128	1,168	1,205
Cirrhosis	Undiagnosed	248	261	275	287	301	313	326	339	350	361
HCC	Diagnosed	1	2	2	2	2	2	2	2	2	2
Liver Failure	Diagnosed	16	17	18	18	19	20	21	21	22	23
<b>Total</b>		16,093	16,018	15,936	15,847	15,749	15,644	15,528	15,405	15,269	15,119
<b>HCV QALYs Gained</b>		2,065	2,069	2,074	2,076	2,079	2,079	2,080	2,076	2,073	2,070
<b>All Life Years Gained</b>		12,515	12,994	13,432	13,828	14,183	14,497	14,771	14,999	15,187	15,336
<b>All QALYs Gained</b>		17,051	17,385	17,686	17,950	18,180	18,373	18,531	18,648	18,729	18,772

Year		2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>HIV</b>											
<b>Survivors without HIV</b>		20,510	20,223	19,911	19,571	19,204	18,805	18,371	17,904	17,409	16,874
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	3,750	3,492	3,248	3,016	2,796	2,587	2,388	2,199	2,021	1,851
CD4 <500	Undiagnosed	417	388	361	335	311	287	265	244	225	206
AIDS	Diagnosed	924	864	806	751	699	650	603	558	516	476
<b>Total</b>		5,091	4,744	4,415	4,102	3,806	3,524	3,256	3,001	2,762	2,533
<b>Life Years Gained</b>		15,419	15,479	15,496	15,469	15,398	15,281	15,115	14,903	14,647	14,341
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	2,850	2,654	2,468	2,292	2,125	1,966	1,815	1,671	1,536	1,407
CD4 <500	Undiagnosed	375	349	325	302	280	258	239	220	203	185
AIDS	Diagnosed	573	536	500	466	433	403	374	346	320	295
<b>Total</b>		3,798	3,539	3,293	3,059	2,838	2,627	2,427	2,237	2,058	1,887
<b>HIV QALYs Gained</b>		16,712	16,685	16,618	16,512	16,366	16,177	15,943	15,667	15,350	14,986

Year		2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
<b>HCV</b>											
<b>Survivors without HCV</b>		17,021	16,836	16,634	16,413	16,171	15,909	15,624	15,315	14,981	14,622
<b>Survivors with HCV</b>											
Not Chronic		4,251	4,204	4,153	4,096	4,036	3,970	3,898	3,821	3,736	3,646
Stage 0/1	Diagnosed	3,796	3,690	3,582	3,474	3,364	3,253	3,140	3,026	2,911	2,793
Stage 0/1	Undiagnosed	2,531	2,460	2,388	2,316	2,242	2,168	2,093	2,017	1,940	1,862
Stage 2/3	Diagnosed	3,157	3,140	3,117	3,089	3,055	3,015	2,969	2,917	2,859	2,794
Stage 2/3	Undiagnosed	1,052	1,047	1,039	1,030	1,018	1,005	990	972	953	931
Cirrhosis	Diagnosed	1,772	1,820	1,865	1,906	1,943	1,975	2,002	2,023	2,038	2,047
Cirrhosis	Undiagnosed	443	455	466	477	486	494	500	506	510	512
HCC	Diagnosed	22	22	23	23	24	24	25	25	25	25
Liver Failure	Diagnosed	74	75	77	79	80	81	82	83	84	84
<b>Total</b>		17,002	16,816	16,610	16,388	16,144	15,880	15,592	15,282	14,947	14,585
<b>Life Years Gained</b>		19	20	24	25	27	29	32	33	34	37
<b>Quality Adjusted Life Years</b>											
Not Chronic		4,251	4,204	4,153	4,096	4,036	3,970	3,898	3,821	3,736	3,646
Stage 0/1	Diagnosed	3,113	3,026	2,937	2,849	2,758	2,667	2,575	2,481	2,387	2,290
Stage 0/1	Undiagnosed	2,379	2,312	2,245	2,177	2,107	2,038	1,967	1,896	1,824	1,750
Stage 2/3	Diagnosed	2,589	2,575	2,556	2,533	2,505	2,472	2,435	2,392	2,344	2,291
Stage 2/3	Undiagnosed	989	984	977	968	957	945	931	914	896	875
Cirrhosis	Diagnosed	1,240	1,275	1,306	1,335	1,361	1,384	1,402	1,417	1,427	1,434
Cirrhosis	Undiagnosed	372	382	391	401	408	415	420	425	428	430
HCC	Diagnosed	2	2	2	2	2	2	3	3	3	3
Liver Failure	Diagnosed	24	24	25	25	26	26	26	27	27	27
<b>Total</b>		14,959	14,785	14,592	14,386	14,161	13,919	13,656	13,375	13,072	12,746
<b>HCV QALYs Gained</b>		2,062	2,052	2,042	2,027	2,010	1,989	1,967	1,940	1,909	1,875
<b>All Life Years Gained</b>		15,438	15,500	15,520	15,494	15,425	15,309	15,146	14,936	14,681	14,378
<b>All QALYs Gained</b>		18,774	18,736	18,660	18,539	18,376	18,166	17,911	17,608	17,260	16,862

Year		2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
<b>HIV</b>											
<b>Survivors without HIV</b>		16,302	15,697	15,053	14,376	13,662	12,916	12,144	11,347	10,526	9,689
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	1,690	1,539	1,395	1,260	1,132	1,013	901	796	699	609
CD4 <500	Undiagnosed	188	171	155	140	126	113	100	88	78	68
AIDS	Diagnosed	438	402	368	336	305	276	249	224	200	178
<b>Total</b>		2,316	2,112	1,918	1,736	1,563	1,402	1,250	1,108	977	855
<b>Life Years Gained</b>		13,986	13,585	13,135	12,640	12,099	11,514	10,894	10,239	9,549	8,834
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	1,284	1,170	1,060	958	860	770	685	605	531	463
CD4 <500	Undiagnosed	169	154	140	126	113	102	90	79	70	61
AIDS	Diagnosed	272	249	228	208	189	171	154	139	124	110
<b>Total</b>		1,725	1,573	1,428	1,292	1,163	1,043	929	823	725	634
<b>HIV QALYs Gained</b>		14,577	14,124	13,626	13,084	12,499	11,873	11,215	10,524	9,801	9,054

Year		2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
<b>HCV</b>											
<b>Survivors without HCV</b>		14,235	13,820	13,377	12,906	12,405	11,876	11,321	10,740	10,135	9,511
<b>Survivors with HCV</b>											
Not Chronic		3,549	3,446	3,334	3,216	3,092	2,959	2,821	2,677	2,526	2,369
Stage 0/1	Diagnosed	2,674	2,554	2,432	2,308	2,183	2,057	1,930	1,803	1,675	1,548
Stage 0/1	Undiagnosed	1,783	1,703	1,621	1,539	1,456	1,371	1,287	1,202	1,117	1,032
Stage 2/3	Diagnosed	2,723	2,645	2,561	2,471	2,375	2,272	2,164	2,051	1,933	1,811
Stage 2/3	Undiagnosed	908	882	854	824	792	757	721	684	644	604
Cirrhosis	Diagnosed	2,048	2,042	2,029	2,007	1,976	1,937	1,889	1,832	1,766	1,691
Cirrhosis	Undiagnosed	512	511	507	502	494	484	472	458	441	423
HCC	Diagnosed	25	25	25	25	24	24	23	22	22	21
Liver Failure	Diagnosed	84	83	83	82	80	78	76	74	71	68
<b>Total</b>		14,197	13,783	13,338	12,867	12,368	11,837	11,284	10,707	10,102	9,478
<b>Life Years Gained</b>		38	37	39	39	37	39	37	33	33	33
<b>Quality Adjusted Life Years</b>											
Not Chronic		3,549	3,446	3,334	3,216	3,092	2,959	2,821	2,677	2,526	2,369
Stage 0/1	Diagnosed	2,193	2,094	1,994	1,893	1,790	1,687	1,583	1,478	1,374	1,269
Stage 0/1	Undiagnosed	1,676	1,601	1,524	1,447	1,369	1,289	1,210	1,130	1,050	970
Stage 2/3	Diagnosed	2,233	2,169	2,100	2,026	1,948	1,863	1,774	1,682	1,585	1,485
Stage 2/3	Undiagnosed	854	829	803	775	744	712	678	643	605	568
Cirrhosis	Diagnosed	1,435	1,431	1,422	1,406	1,385	1,358	1,325	1,285	1,238	1,185
Cirrhosis	Undiagnosed	430	429	426	422	415	407	396	385	370	355
HCC	Diagnosed	3	3	3	3	2	2	2	2	2	2
Liver Failure	Diagnosed	27	27	27	26	26	25	24	24	23	22
<b>Total</b>		12,398	12,029	11,631	11,212	10,771	10,301	9,813	9,305	8,773	8,226
<b>HCV QALYs Gained</b>		1,837	1,791	1,745	1,693	1,634	1,575	1,508	1,434	1,362	1,285
<b>All Life Years Gained</b>		14,024	13,622	13,174	12,679	12,136	11,553	10,931	10,271	9,583	8,866
<b>All QALYs Gained</b>		16,414	15,915	15,371	14,777	14,133	13,449	12,723	11,958	11,163	10,339

Year		2051	2052	2053	2054	2055	2056	2057	2058	2059	2060
<b>HIV</b>											
<b>Survivors without HIV</b>		8,845	8,001	7,164	6,344	5,553	4,800	4,090	3,433	2,838	2,305
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	526	451	382	320	265	217	175	139	109	84
CD4 <500	Undiagnosed	58	50	42	36	29	24	19	15	12	9
AIDS	Diagnosed	157	137	119	103	88	75	63	52	42	34
<b>Total</b>		741	638	543	459	382	316	257	206	163	127
<b>Life Years Gained</b>		8,104	7,363	6,621	5,885	5,171	4,484	3,833	3,227	2,675	2,178
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	400	343	290	243	201	165	133	106	83	64
CD4 <500	Undiagnosed	52	45	38	32	26	22	17	14	11	8
AIDS	Diagnosed	97	85	74	64	55	47	39	32	26	21
<b>Total</b>		549	473	402	339	282	233	189	151	120	93
<b>HIV QALYs Gained</b>		8,295	7,528	6,762	6,005	5,271	4,567	3,901	3,282	2,718	2,212

Year		2051	2052	2053	2054	2055	2056	2057	2058	2059	2060
<b>HCV</b>		8,869	8,216	7,556	6,893	6,235	5,588	4,960	4,358	3,787	3,253
<b>Survivors without HCV</b>											
<b>Survivors with HCV</b>		2,209	2,047	1,883	1,717	1,552	1,392	1,235	1,085	943	810
Not Chronic		1,422	1,297	1,176	1,057	942	832	728	631	541	458
Stage 0/1	Diagnosed	948	865	784	705	628	555	486	421	360	305
Stage 0/1	Undiagnosed	1,686	1,559	1,431	1,302	1,175	1,051	930	815	706	605
Stage 2/3	Diagnosed	562	520	477	434	392	350	310	272	235	202
Stage 2/3	Undiagnosed	1,609	1,519	1,423	1,322	1,217	1,110	1,001	894	789	689
Cirrhosis	Diagnosed	402	380	356	331	304	277	250	224	197	172
Cirrhosis	Undiagnosed	20	19	17	16	15	14	12	11	10	8
HCC	Diagnosed	64	60	56	52	48	43	39	34	30	26
Liver Failure	Diagnosed	8,838	8,187	7,530	6,868	6,210	5,567	4,940	4,342	3,771	3,241
<b>Total</b>		31	29	26	25	25	21	20	16	16	12
<b>Life Years Gained</b>											
<b>Quality Adjusted Life Years</b>		2,209	2,047	1,883	1,717	1,552	1,392	1,235	1,085	943	810
Not Chronic		1,166	1,064	964	867	772	682	597	517	444	376
Stage 0/1	Diagnosed	891	813	737	663	590	522	457	396	338	287
Stage 0/1	Undiagnosed	1,383	1,278	1,173	1,068	964	862	763	668	579	496
Stage 2/3	Diagnosed	528	489	448	408	368	329	291	256	221	190
Stage 2/3	Undiagnosed	1,129	1,066	999	928	854	779	703	628	554	485
Cirrhosis	Diagnosed	338	319	299	278	255	233	210	188	165	144
Cirrhosis	Undiagnosed	2	2	2	2	2	1	1	1	1	1
HCC	Diagnosed	20	19	18	17	15	14	12	11	10	8
Liver Failure	Diagnosed	7,666	7,097	6,524	5,946	5,373	4,814	4,269	3,751	3,255	2,797
<b>Total</b>		1,203	1,119	1,032	946	862	774	691	608	532	457
<b>HCV QALYs Gained</b>											
<b>All Life Years Gained</b>		8,134	7,392	6,647	5,910	5,196	4,505	3,853	3,243	2,691	2,190
<b>All QALYs Gained</b>		9,498	8,648	7,794	6,952	6,133	5,341	4,592	3,889	3,250	2,669

Year		2061	2062	2063	2064	2065	2066	2067	2068	2069	2070
<b>HIV</b>											
<b>Survivors without HIV</b>		1,842	1,450	1,120	853	635	454	308	188	90	0
<b>Survivors with HIV</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	63	47	35	25	18	12	8	5	2	0
CD4 <500	Undiagnosed	7	5	4	3	2	1	1	1	0	0
AIDS	Diagnosed	27	21	16	12	8	6	4	2	1	0
<b>Total</b>		97	73	55	40	28	19	13	8	3	0
<b>Life Years Gained</b>		1,745	1,377	1,065	813	607	435	295	180	87	0
<b>Quality Adjusted Life Years</b>											
CD4 >500	Diagnosed	0	0	0	0	0	0	0	0	0	0
CD4 >500	Undiagnosed	0	0	0	0	0	0	0	0	0	0
CD4 <500	Diagnosed	48	36	27	19	14	9	6	4	2	0
CD4 <500	Undiagnosed	6	5	4	3	2	1	1	1	0	0
AIDS	Diagnosed	17	13	10	7	5	4	2	1	1	0
<b>Total</b>		71	53	40	29	20	14	9	6	2	0
<b>HIV QALYs Gained</b>		1,771	1,397	1,080	824	615	440	298	182	87	0



Year		2061	2062	2063	2064	2065	2066	2067	2068	2069	2070
<b>HCV</b>											
<b>Survivors without HCV</b>		2,760	2,311	1,899	1,534	1,219	952	731	550	405	290
<b>Survivors with HCV</b>											
Not Chronic		687	576	473	382	304	237	182	137	101	72
Stage 0/1	Diagnosed	383	316	256	204	160	124	94	70	51	36
Stage 0/1	Undiagnosed	255	211	171	136	107	82	62	46	34	24
Stage 2/3	Diagnosed	511	427	349	281	223	173	133	99	73	52
Stage 2/3	Undiagnosed	170	142	116	94	74	58	44	33	24	17
Cirrhosis	Diagnosed	593	504	420	344	277	219	170	130	97	70
Cirrhosis	Undiagnosed	148	126	105	86	69	55	43	32	24	17
HCC	Diagnosed	7	6	5	4	3	3	2	2	1	1
Liver Failure	Diagnosed	22	19	15	12	10	8	6	4	3	2
<b>Total</b>		2,747	2,302	1,890	1,527	1,214	948	728	547	404	288
<b>Life Years Gained</b>		13	9	9	7	5	4	3	3	1	2
<b>Quality Adjusted Life Years</b>											
Not Chronic		687	576	473	382	304	237	182	137	101	72
Stage 0/1	Diagnosed	314	259	210	167	131	102	77	57	42	30
Stage 0/1	Undiagnosed	240	198	161	128	101	77	58	43	32	23
Stage 2/3	Diagnosed	419	350	286	230	183	142	109	81	60	43
Stage 2/3	Undiagnosed	160	133	109	88	70	55	41	31	23	16
Cirrhosis	Diagnosed	417	354	296	243	195	154	120	92	69	50
Cirrhosis	Undiagnosed	124	106	88	72	58	46	36	27	20	14
HCC	Diagnosed	1	1	1	0	0	0	0	0	0	0
Liver Failure	Diagnosed	7	6	5	4	3	3	2	1	1	1
<b>Total</b>		2,369	1,984	1,628	1,315	1,045	815	626	470	347	247
<b>HCV QALYs Gained</b>		391	327	271	219	174	137	105	80	58	42
<b>All Life Years Gained</b>		1,758	1,386	1,074	820	612	439	298	183	88	2
<b>All QALYs Gained</b>		2,162	1,724	1,351	1,043	789	577	404	263	145	42

Year	2071	2072	2073	2074	2075	Total	
<b>HIV</b>							
<b>Survivors without HIV</b>						1,162,533	
<b>Survivors with HIV</b>							
CD4 >500						Diagnosed	96,422
CD4 >500						Undiagnosed	24,103
CD4 <500						Diagnosed	344,734
CD4 <500						Undiagnosed	38,302
AIDS						Diagnosed	71,410
<b>Total</b>							574,971
<b>Life Years Gained</b>							587,562
<b>Quality Adjusted Life Years</b>							
CD4 >500						Diagnosed	83,887
CD4 >500						Undiagnosed	22,657
CD4 <500						Diagnosed	261,998
CD4 <500						Undiagnosed	34,472
AIDS						Diagnosed	44,274
<b>Total</b>	0	0	0	0	0		447,288
<b>HIV QALYs Gained</b>		0	0	0	0		715,245

Year		2071	2072	2073	2074	2075	Total
<b>HCV</b>							
<b>Survivors without HCV</b>		198	127	73	32	0	1,036,257
<b>Survivors with HCV</b>							
Not Chronic		49	31	19	8	0	258,775
Stage 0/1	Diagnosed	24	15	9	4	0	285,367
Stage 0/1	Undiagnosed	16	10	6	3	0	190,245
Stage 2/3	Diagnosed	35	23	13	6	0	150,916
Stage 2/3	Undiagnosed	12	8	4	2	0	50,307
Cirrhosis	Diagnosed	48	31	18	8	0	79,585
Cirrhosis	Undiagnosed	12	8	5	2	0	19,898
HCC	Diagnosed	1	0	0	0	0	975
Liver Failure	Diagnosed	1	1	0	0	0	3,248
<b>Total</b>		196	126	74	33	0	1,035,093
<b>Life Years Gained</b>		2	1	-1	-1	0	1,164
<b>Quality Adjusted Life Years</b>							
Not Chronic		49	31	19	8	0	
Stage 0/1	Diagnosed	20	12	7	3	0	234,001
Stage 0/1	Undiagnosed	15	9	6	3	0	178,830
Stage 2/3	Diagnosed	29	19	11	5	0	123,751
Stage 2/3	Undiagnosed	11	8	4	2	0	47,289
Cirrhosis	Diagnosed	34	22	13	6	0	55,768
Cirrhosis	Undiagnosed	10	7	4	2	0	16,714
HCC	Diagnosed	0	0	0	0	0	98
Liver Failure	Diagnosed	0	0	0	0	0	1,039
<b>Total</b>		168	108	64	29	0	916,265
<b>HCV QALYs Gained</b>		30	19	9	3	0	119,992
<b>All Life Years Gained</b>		2	1	-1	-1	0	588,726
<b>All QALYs Gained</b>		30	19	9	3	0	835,237

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