

This supplementary material includes detailed results for all VOI analyses, including both the baseline and sensitivity analyses, discussed in the white paper. Supplementary material is comprised of 10 tabs showing the following results. The tab names corresponds to the section number in the white paper to which the VOI results pertain.

Tab name	Content
6.1.1. BRDM	Results of VOI analyses for baseline analysis for BRDM (9 BA scenarios)
6.1.2. TRDM	Results of VOI analyses for baseline analysis for TRDM (9 BA scenarios)
6.2.1. BRDM	Results of VOI sensitivity analysis exploring the effect of quality of exposure information for BRDM (81 SA scenarios)
6.2.1. TRDM	Results of VOI sensitivity analysis exploring the effect of quality of exposure information for TRDM (81 SA scenarios)
6.2.2. BRDM	Results of VOI sensitivity analysis exploring the effect of adverse health outcome and cost of control for BRDM (27 SA scenarios + 9 BA scenarios)
6.2.2. TRDM	Results of VOI sensitivity analysis exploring the effect of adverse health outcome and cost of control for TRDM (18 SA scenarios + 9 BA scenarios)
6.2.3. BRDM TRDM	Results of VOI sensitivity analysis exploring the effect of toxicity distribution for BRDM and TRDM (18 SA scenarios)
6.2.4. BRDM	Results of VOI sensitivity analysis exploring the effect of affected population size for BRDM (18 SA scenarios + 9 BA scenarios)
6.2.4. TRDM	Results of VOI sensitivity analysis exploring the effect of affected population size for TRDM (18 SA scenarios + 9 BA scenarios)
6.2.5. TRDM	Results of VOI sensitivity analysis exploring the effect of choice of TRL for TRDM (9 SA scenarios)
6.2.6. BRDM TRDM	Results of VOI sensitivity analysis exploring the effect of additional sources of uncertainty for BRDM and TRDM (18 SA scenarios)

* BA = baseline analysis; SA = sensitivity analysis

Analysis type: Baseline analysis

Decision-making paradigm: BRDM

Description: This table contains VOI analysis results for nine exposure scenarios considered in the baseline analysis.

NOTE: These results are also presented as Table 6-1.

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	0		0		0		52		78		88		100		100		100	
EV(CI (\$M))	34,985		71,112		52,678		187,116		293,406		326,454		682,822		718,084		914,879	
EVIPPI (\$M)	9,562		23,724		14,524		112,762		153,501		145,812		118,826		121,541		73,520	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	6,714	7,997	18,304	20,792	10,634	12,401	98,386	105,280	132,933	142,679	125,722	135,160	86,256	100,974	87,670	102,955	47,053	58,675
CoD (\$M)	286	4,570	780	11,882	453	7,087	6,052	85,092	12,157	168,585	12,399	171,653	64,708	876,092	70,331	951,815	99,596	1,342,144
EVDSI (\$M)	6,428	3,427	17,524	8,910	10,180	5,314	92,334	20,188	120,776	-25,907	113,323	-36,493	21,548	-775,117	17,339	-848,860	-52,543	-1,283,469
ENBS (\$M)	6,428	3,423	17,524	8,906	10,180	5,310	92,334	20,184	120,775	-25,911	113,322	-36,497	21,547	-775,121	17,339	-848,864	-52,544	-1,283,473
ROI	32,140	856	87,618	2,226	50,901	1,327	461,668	5,046	603,877	-6,478	566,612	-9,124	107,737	-193,780	86,693	-212,216	-262,718	-320,868

Analysis type: Baseline analysis

Decision-making paradigm: TRDM

Description: This table contains VOI analysis results for nine exposure scenarios considered in the baseline analysis.

NOTE: These results are also presented as Table 6-3.

μ_{exp}	Low						Medium						High					
σ_{exp}	Low		Medium		High		Low		Medium		High		Low		Medium		High	
Scenario	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	34,985		71,112		52,678		230,732		445,722		491,657		2,114,853		2,280,636		3,204,717	
EVIPPI (\$M)	169		13,847		16,765		169,559		322,652		342,378		1,443,267		1,566,202		2,085,909	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	10	43	4,294	7,490	7,805	11,584	143,120	161,570	296,667	314,381	332,269	339,030	1,389,375	1,425,135	1,544,647	1,560,703	2,067,267	2,077,867
CoD (\$M)	0.4	25	183	4,280	333	6,620	6,100	92,335	12,644	179,665	14,161	193,751	59,214	814,446	65,831	891,921	88,105	1,187,474
EVDSI (\$M)	9	19	4,111	3,209	7,473	4,964	137,020	69,235	284,023	134,716	318,108	145,279	1,330,161	610,689	1,478,816	668,782	1,979,162	890,394
ENBS (\$M)	9	15	4,111	3,205	7,472	4,960	137,020	69,231	284,023	134,712	318,108	145,275	1,330,161	610,685	1,478,816	668,778	1,979,162	890,390
ROI	44	4	20,556	801	37,362	1,240	685,100	17,308	1,420,115	33,678	1,590,540	36,319	6,650,803	152,671	7,394,078	167,194	9,895,810	222,597

Analysis type: Sensitivity analysis - Effect of quality of exposure information
 Decision-making paradigm: BCDM
 Description: For each of the nine exposure scenarios considered in the baseline analysis, VDI analysis was performed using further subpartitioned 3x3 exposure information.
 This analysis exhibits the effect of having more precise exposure information on VDI analysis.

Scenario	Baseline Scenario 1								
	Low			Medium			High		
Scenario	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
ORE	0	0	0	0	0	0	0	0	0
EVCI (\$M)	34,985	745	160	932	1,730	13,158	13,985	25,465	25,465
EVVPI (\$M)	9,542	199	47	385	321	7,715	8,966	12,617	12,617
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	6,714	7,997	199	293	179	243	321	430	5,498
CoD (\$M)	286	4,370	0.7	16	0.2	4	9	167	8
EVSI (\$M)	6,428	3,427	5	4	16	12	4	236	184
ENBS (\$M)	6,428	3,423	5	4	15	8	3	120	122
ROI	32,140	856	23	-0.5	77	2	17	-0.3	1,051

Scenario	Baseline Scenario 2								
	Low			Medium			High		
Scenario	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
ORE	0	0	0	0	0	0	0	0	0
EVCI (\$M)	71,112	3,265	1,197	7,033	8,175	12,555	16,178	63,300	70,793
EVVPI (\$M)	23,724	325	104	811	624	6,327	8,543	26,865	30,070
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	18,304	238	87	130	412	578	2,069	2,551	3,184
CoD (\$M)	790	11,852	0	145	4	74	18	1,458	136
EVSI (\$M)	17,524	8,930	140	93	83	56	394	247	1,981
ENBS (\$M)	17,524	8,906	140	89	83	52	394	243	1,981
ROI	87,618	2,226	200	22	415	13	1,971	61	9,903

Scenario	Baseline Scenario 3								
	Low			Medium			High		
Scenario	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
ORE	0	0	0	0	0	0	0	0	0
EVCI (\$M)	52,678	1,759	1,830	7,419	6,775	6,522	23,574	63,130	44,187
EVVPI (\$M)	14,524	120	202	1,771	2,201	1,816	6,502	28,843	18,832
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	10,634	17,403	61	95	87	133	392	551	1,223
CoD (\$M)	463	7,987	3	64	4	76	17	315	52
EVSI (\$M)	10,180	5,314	58	41	83	57	375	236	1,171
ENBS (\$M)	10,180	5,310	58	37	83	53	375	232	1,170
ROI	50,901	1,827	289	58	8	416	13	3,825	58

Scenario	Baseline Scenario 4								
	Low			Medium			High		
Scenario	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
ORE	52	5	5	7	45	45	49	73	74
EVCI (\$M)	187,116	67,491	79,793	70,445	167,291	161,471	175,367	267,085	274,158
EVVPI (\$M)	132,762	43,705	51,717	45,724	102,179	102,068	110,210	154,917	147,817
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	99,385	105,280	37,301	40,396	44,442	47,956	59,146	42,341	90,166
CoD (\$M)	6,052	1,098	23,302	1,365	28,090	1,684	28,452	5,813	23,645
EVSI (\$M)	92,334	20,188	35,702	17,194	42,496	19,866	37,461	17,929	85,180
ENBS (\$M)	92,334	20,184	35,702	17,190	42,496	19,862	37,461	17,925	85,180
ROI	461,668	5,046	178,310	4,298	212,481	4,265	337,906	4,481	425,898

Scenario	Baseline Scenario 5								
	Low			Medium			High		
Scenario	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
ORE	78	31	32	28	74	80	80	92	92
EVCI (\$M)	223,406	159,272	177,718	160,538	271,739	261,941	298,712	368,072	375,521
EVVPI (\$M)	153,501	78,382	79,635	74,407	151,327	150,388	166,964	171,176	171,233
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	132,931	142,879	88,278	73,221	69,034	74,123	66,261	69,119	131,820
CoD (\$M)	13,917	168,585	3,396	48,461	3,451	49,177	3,105	46,977	11,324
EVSI (\$M)	120,776	25,907	64,282	24,896	65,384	24,945	61,136	24,441	120,496
ENBS (\$M)	120,775	25,911	64,282	24,892	65,384	24,941	61,136	24,439	120,496
ROI	603,887	6,478	324,408	6,251	327,918	6,235	305,681	6,102	622,478

Scenario	Baseline Scenario 6								
	Low			Medium			High		
Scenario	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9
ORE	88	80	86	95	81	85	95	99	100
EVCI (\$M)	236,454	107,080	153,866	217,789	216,781	201,148	317,161	371,013	418,625
EVVPI (\$M)	145,812	60,782	83,245	108,108	119,436	145,602	161,344	146,869	138,841
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	125,712	125,160	51,712	55,021	71,249	76,312	90,150	102,856	148,412
CoD (\$M)	1,999	171,653	2,369	34,221	3,696	52,801	5,762	81,294	6,818
EVSI (\$M)	113,321	36,493	49,354	21,801	67,552	24,112	87,388	18,901	96,838
ENBS (\$M)	113,321	36,493	49,354	21,797	67,552	24,108	87,388	18,897	96,838
ROI	566,612	9,124	246,768	5,449	337,761	6,027	436,338	6,454	484,191

Scenario	Baseline Scenario 7								
	Low			Medium			High		
Scenario	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
ORE	100	98	98	98	99	99	99	100	100
EVCI (\$M)	682,822	440,318	446,776	446,421	535,455	539,905	537,187	1,327,271	815,312
EVVPI (\$M)	418,826	169,450	168,247	167,828	158,821	157,923	157,764	39,554	109,081
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	140,400	124,256	138,887	132,649	138,008	132,493	136,073	214,293	141,299
CoD (\$M)	64,708	876,092	29,621	404,991	30,484	416,625	30,399	415,473	43,996
EVSI (\$M)	130,778	220,956	108,403	263,976	108,130	263,224	82,702	448,954	81,085
ENBS (\$M)	130,778	220,956	108,403	263,980	108,130	263,228	82,702	448,958	81,085
ROI	533,890	82,740	542,014	65,995	540,548	65,807	512,249	405,623	116,587

Scenario	Baseline Scenario 8								
	Low			Medium			High		
Scenario	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
ORE	100	98	99	99	100	100	100	100	100
EVCI (\$M)	718,084	456,845	476,189	479,275	620,783	628,127	640,141	1,413,248	924,987
EVVPI (\$M)	418,826	165,907	163,095	162,117	146,055	144,687	142,596	59,622	109,155
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	136,167	150,073	132,993	146,821	131,133	145,788	111,454	177,321	110,005
CoD (\$M)	31,817	434,592	34,559	473,140	34,974	477,120	56,072	760,952	37,166
EVSI (\$M)	108,149	216,533	98,014	232,719	96,599	231,315	95,381	433,611	92,869
ENBS (\$M)	108,149	216,533	98,014	232,723	96,599	231,319	95,381	433,615	92,869
ROI	521,745	71,311	490,168	81,181	482,796	82,834	276,905	118,409	264,197

Scenario	Baseline Scenario 9								
	Low			Medium			High		
Scenario	9-1	9-2	9-3	9-4	9-5	9-6	9-8	9-9	9-9
ORE	100	99	100	100	100	100	100	100	100
EVCI (\$M)	914,879	490,734	551,745	648,122	680,924	730,381	780,196	1,184,119	1,579,685
EVVPI (\$M)	578,520	177,622	178,328	188,669	186,573	172,670	172,670	94,299	52,449
ETAP	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA	THHA
EVSI (\$M)	126,586	140,845	98,301	112,051	70,479	83,173	101,339	117,386	87,601
CoD (\$M)	36,440	496,782	44,602	605,936	58,651	792,515	65,100	882,099	72,265
EVSI (\$M)	90,146	133,669	53,698	149,189	53,698	149,189	53,698	449,744	48,924
ENBS (\$M)	90,146	133,641	53,698	149,189	53,698	149,189	53,698	449,744	48,924
ROI	450,728	48,985	268,491	123,472	59,586	177,336	181,294	491,179	76,681

Analysis type: Sensitivity analysis - Effect of quality of exposure information
Decision-making paradigm: TROM
Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using further subpartitioned 3x3 exposure information. This analysis exhibits the effect of having more precise exposure information on VOI analysis.
 For individual analysis, NA indicates scenario where prior information is sufficient in deriving a regulatory decision and therefore no toxicity testing is required.

Scenario	Baseline Scenario 1	
	ETAP	THHA
EV/CI (SM)	34,885	
EV/PI (SM)	165	
EV/IS (SM)	10	43
CoD (SM)	0.1	75
EVDS (SM)	9	19
ENBS (SM)	9	15
ROI	4.1	-4

Scenario	Baseline Scenario 2	
	ETAP	THHA
EV/CI (SM)	71,112	13,847
EV/PI (SM)		
EV/IS (SM)	4,294	7,490
CoD (SM)	183	4,280
EVDS (SM)	4,111	3,209
ENBS (SM)	4,111	3,205
ROI	20,556	801

Scenario	Baseline Scenario 3	
	ETAP	THHA
EV/CI (SM)	52,678	16,765
EV/PI (SM)		
EV/IS (SM)	7,805	11,584
CoD (SM)	333	6,620
EVDS (SM)	7,473	4,964
ENBS (SM)	7,473	4,960
ROI	37,362	1,240

Scenario	Baseline Scenario 4	
	ETAP	THHA
EV/CI (SM)	230,732	169,550
EV/PI (SM)		
EV/IS (SM)	143,120	151,570
CoD (SM)	6,100	92,335
EVDS (SM)	137,000	69,235
ENBS (SM)	137,000	69,231
ROI	685,100	17,308

Scenario	Baseline Scenario 5	
	ETAP	THHA
EV/CI (SM)	445,722	322,651
EV/PI (SM)		
EV/IS (SM)	296,667	314,381
CoD (SM)	12,644	179,665
EVDS (SM)	284,023	134,716
ENBS (SM)	284,023	134,712
ROI	1,420,115	33,678

Scenario	Baseline Scenario 6	
	ETAP	THHA
EV/CI (SM)	491,622	342,378
EV/PI (SM)		
EV/IS (SM)	332,350	339,050
CoD (SM)	14,161	193,751
EVDS (SM)	318,108	145,279
ENBS (SM)	318,108	145,275
ROI	1,590,540	36,318

Scenario	Baseline Scenario 7	
	ETAP	THHA
EV/CI (SM)	2,114,851	1,444,267
EV/PI (SM)		
EV/IS (SM)	1,389,375	1,425,135
CoD (SM)	59,214	814,446
EVDS (SM)	1,330,161	610,689
ENBS (SM)	1,330,161	610,685
ROI	6,650,803	152,671

Scenario	Baseline Scenario 8	
	ETAP	THHA
EV/CI (SM)	2,280,636	1,564,202
EV/PI (SM)		
EV/IS (SM)	1,544,647	1,560,703
CoD (SM)	65,831	891,921
EVDS (SM)	1,478,816	668,783
ENBS (SM)	1,478,816	668,778
ROI	7,394,078	167,194

Scenario	Baseline Scenario 9	
	ETAP	THHA
EV/CI (SM)	3,204,712	2,085,900
EV/PI (SM)		
EV/IS (SM)	2,086,267	2,077,867
CoD (SM)	36,739	495,300
EVDS (SM)	1,979,162	890,394
ENBS (SM)	1,979,162	890,390
ROI	9,895,910	221,597

Scenario	Low			Medium			High		
	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
EV/CI (SM)	NA	NA	NA	NA	NA	1,730	13,158	13,595	25,495
EV/PI (SM)	NA	NA	NA	NA	NA	1,203	9,829	10,224	18,959
EV/IS (SM)	NA	NA	NA	NA	NA	628	942	6,448	8,533
CoD (SM)	NA	NA	NA	NA	NA	275	4,877	423	5,348
EVDS (SM)	NA	NA	NA	NA	NA	601	404	6,173	3,657
ENBS (SM)	NA	NA	NA	NA	NA	601	400	6,173	3,653
ROI	NA	NA	NA	NA	NA	3,003	100	30,864	913

Scenario	Low			Medium			High		
	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
EV/CI (SM)	3,265	1,197	7,093	8,175	12,555	16,178	62,300	70,794	60,998
EV/PI (SM)	68	663	375	6,116	9,349	12,051	46,099	52,229	44,529
EV/IS (SM)	5	257	441	48	336	5,102	5,794	8,396	8,970
CoD (SM)	0.2	11	111	252	2	78	237	3,311	349
EVDS (SM)	4	8	246	189	46	58	4,885	2,483	7,847
ENBS (SM)	4	4	246	185	46	58	4,885	2,479	7,847
ROI	21	11	2,296	481	231	14	24,423	620	53,394

Scenario	Low			Medium			High		
	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
EV/CI (SM)	1,759	1,830	7,418	6,775	6,522	23,574	63,130	44,187	127,437
EV/PI (SM)	286	783	3,361	5,043	4,363	16,816	45,945	32,343	90,338
EV/IS (SM)	48	121	274	470	1,804	2,513	4,395	4,824	4,355
CoD (SM)	2	69	12	269	77	1,436	187	2,757	186
EVDS (SM)	46	52	262	203	1,727	1,077	4,208	2,067	4,169
ENBS (SM)	46	52	262	203	1,727	1,073	4,208	2,063	4,169
ROI	229	12	1,309	49	6,834	268	21,040	516	20,845

Scenario	Low			Medium			High		
	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9
EV/CI (SM)	67,694	80,990	70,820	193,610	192,083	214,620	399,834	416,817	378,937
EV/PI (SM)	60,900	60,865	53,418	151,418	150,333	166,517	296,023	280,265	280,415
EV/IS (SM)	41,587	48,208	50,638	58,022	45,884	51,182	135,627	142,856	134,365
CoD (SM)	3,772	27,550	2,158	33,159	1,956	29,250	5,780	81,640	5,727
EVDS (SM)	39,814	20,658	48,480	24,863	43,929	31,929	129,846	61,216	128,639
ENBS (SM)	39,814	20,654	48,480	24,859	43,928	31,928	128,638	61,212	128,638
ROI	199,071	5,163	242,400	6,215	219,642	5,482	649,230	15,303	643,192

Scenario	Low			Medium			High		
	5-1	5-2	5-3	5-4	5-5	5-6	5-7	5-8	5-9
EV/CI (SM)	137,037	139,647	129,576	405,640	483,771	471,081	669,802	695,325	720,939
EV/PI (SM)	102,170	104,143	96,378	299,106	353,684	340,034	487,977	506,019	523,569
EV/IS (SM)	92,589	99,359	95,220	101,612	86,797	93,455	291,530	297,538	346,749
CoD (SM)	3,846	55,762	4,058	58,070	3,699	53,408	12,425	170,039	14,478
EVDS (SM)	88,643	42,576	91,162	43,542	83,098	40,747	279,105	127,499	331,971
ENBS (SM)	88,643	42,572	91,161	43,538	83,098	40,745	279,105	127,495	331,971
ROI	443,214	10,643	455,807	10,885	415,490	10,013	1,395,524	31,874	1,659,855

Scenario	Low			Medium			High		
	6-1	6-2	6-3	6-4	6-5	6-6	6-7	6-8	6-9
EV/CI (SM)	110,939	169,305	259,843	273,094	442,745	467,254	688,486	879,650	NA
EV/PI (SM)	81,842	123,123	184,370	199,059	315,122	328,434	493,039	617,092	NA
EV/IS (SM)	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP
EVDS (SM)	18,219	61,203	122,098	122,841	183,588	184,140	195,789	198,247	314,971
CoD (SM)	3,363	46,309	5,204	70,202	8,844	105,234	8,344	113,296	13,398
EVDS (SM)	75,555	34,724	116,894	52,639	175,763	78,907	187,439	84,952	300,973
ENBS (SM)	75,555	34,720	116,894	52,635	175,763	78,902	187,439	84,948	300,973
ROI	377,775	8,680	588,469	13,159	878,814	19,726	921,195	21,237	1,504,863

Scenario	Low			Medium			High		
	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
EV/CI (SM)	994,943	1,023,147	1,023,178	1,427,034	1,447,126	1,434,456	5,118,487	2,736,704	4,614,726
EV/PI (SM)	667,748	736,956	735,388	1,016,817	1,030,513	1,020,968	2,989,104	1,853,607	2,810,369
EV/IS (SM)	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP
EVDS (SM)	728,016	716,609	729,984	735,719	728,077	733,911	1,009,885	1,015,722	1,024,001
CoD (SM)	30,213	409,213	31,111	420,454	31,039	419,421	43,640	580,471	43,642
EVDS (SM)	678,703	306,837	698,873	315,266	697,047	314,491	966,845	435,250	980,539
ENBS (SM)	678,702	306,833	698,871	315,262	697,044	314,487	966,845	435,246	980,539
ROI	3,393,512	76,708	3,494,363	78,815	3,485,233	78,622	4,834,223	108,812	4,901,795

Scenario	Low			Medium			High		
	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	8-9
EV/CI (SM)	1,067,230	1,154,479	1,168,363	1,824,992	1,859,439	1,935,790	5,541,179	3,252,386	3,064,479
EV/PI (SM)	765,375	825,600	825,600	1,124,600	1,124,600	1,124,600	2,920,127	1,706,240	1,706,240
EV/IS (SM)	759,710	765,383	820,689	825,370	830,447	834,646	1,278,915	1,283,409	1,302,081
CoD (SM)	32,478	417,395	35,397	474,093	35,397	476,989	52,936	733,651	55,493
EVDS (SM)	727,837	327,988	785,272	351,686	795,045	357,657	1,224,409	549,958	1,246,588
ENBS (SM)	727,837	327,984	785,271	351,682	795,044	357,653	1,224,408	549,954	1,246,587
ROI	3,616,667	81,991	3,928,557	88,420	3,975,244	89,413	6,122,402	137,488	6,232,937

Scenario	Low			Medium			High		
	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9
EV/CI (SM)	2,138,168	NA	NA	NA	2,107,055	NA	NA		

Analysis type: Sensitivity analysis - Effect of adverse health outcome and cost of control

Decision-making paradigm: BRDM

Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using alternative annualized health cost (AHC) or annualized maximum control cost (ACC_{max}).

This analysis exhibits the effect of assessing VOI for various adverse health effects and cost of control.

AHC = \$1K, ACC_{max} = \$21.3B

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	0		0		0		0		0		0		40		45		64	
EV CI (\$M)	3,499		7,111		5,268		23,073		44,572		49,166		195,699		207,335		278,438	
EVIPPI (\$M)	66		200		87		8,953		17,404		12,895		89,158		97,338		116,733	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	19	36	70	118	27	48	5,899	7,248	12,331	14,599	8,827	10,632	73,452	80,629	80,484	88,181	98,967	107,114
CoD (\$M)	0.8	20	3	68	1	27	251	4,142	526	8,343	376	6,076	3,803	55,100	4,314	62,240	6,009	85,236
EVDSI (\$M)	18	15	67	51	25	21	5,648	3,106	11,805	6,256	8,450	4,556	69,649	25,529	76,171	25,941	92,957	21,878
ENBS (\$M)	18	11	67	47	25	17	5,648	3,102	11,805	6,252	8,450	4,552	69,648	25,525	76,170	25,937	92,957	21,874
ROI	91	3	336	12	126	4	28,238	775	59,026	1,563	42,251	1,138	348,242	6,381	380,852	6,484	464,786	5,469

AHC = \$10K, ACC_{max} = \$21.3B (baseline analysis)

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	0		0		0		52		78		88		100		100		100	
EV CI (\$M)	34,985		71,112		52,678		187,116		293,406		326,454		682,822		718,084		914,879	
EVIPPI (\$M)	9,562		23,724		14,524		112,762		153,501		145,812		118,826		121,541		73,520	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	6,714	7,997	18,304	20,792	10,634	12,401	98,386	105,280	132,933	142,679	125,722	135,160	86,256	100,974	87,670	102,955	47,053	58,675
CoD (\$M)	286	4,570	780	11,882	453	7,087	6,052	85,092	12,157	168,585	12,399	171,653	64,708	876,092	70,331	951,815	99,596	1,342,144
EVDSI (\$M)	6,428	3,427	17,524	8,910	10,180	5,314	92,334	20,188	120,776	-25,907	113,323	-36,493	21,548	-775,117	17,339	-848,860	-52,543	-1,283,469
ENBS (\$M)	6,428	3,423	17,524	8,906	10,180	5,310	92,334	20,184	120,775	-25,911	113,322	-36,497	21,547	-775,121	17,339	-848,864	-52,544	-1,283,473
ROI	32,140	856	87,618	2,226	50,901	1,327	461,668	5,046	603,877	-6,478	566,612	-9,124	107,737	-193,780	86,693	-212,216	-262,718	-320,868

AHC = \$110K, ACC_{max} = \$21.3B

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	73		99		96		99		100		100		100		100		100	
EV CI (\$M)	277,980		398,741		353,637		770,169		1,276,011		1,383,928		5,184,813		5,573,011		7,736,840	
EVIPPI (\$M)	132,101		136,566		140,829		178,823		149,560		93,937		72,890		77,205		30,834	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	115,456	123,352	115,013	125,132	121,585	130,653	146,956	162,278	111,813	129,370	63,766	77,355	38,540	52,959	40,903	56,150	12,914	19,962
CoD (\$M)	9,475	131,560	21,246	290,668	14,806	203,719	81,609	1,103,062	159,341	2,146,674	174,229	2,344,038	772,133	10,361,925	833,410	11,184,072	1,173,214	15,735,890
EVDSI (\$M)	105,981	-8,208	93,767	-165,537	106,779	-73,066	65,347	-940,783	-47,529	-2,017,304	-110,463	-2,266,683	-733,593	-10,308,966	-792,508	-11,127,923	-1,160,300	-15,715,928
ENBS (\$M)	105,981	-8,212	93,767	-165,541	106,778	-73,070	65,347	-940,787	-47,529	-2,017,308	-110,463	-2,266,687	-733,593	-10,308,970	-792,508	-11,127,927	-1,160,301	-15,715,932
ROI	529,904	-2,053	468,834	-41,385	533,892	-18,267	326,735	-235,197	-237,645	-504,327	-552,317	-566,672	-3,667,967	-2,577,242	-3,962,539	-2,781,982	-5,801,503	-3,928,983

AHC = \$10K, ACC_{max} = \$578M

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	100		100		100		100		100		100		100		100		100	
EV CI (\$M)	13,264		20,961		17,037		54,930		100,705		110,484		456,018		491,309		688,020	
EVIPPI (\$M)	3,345		2,458		2,553		4,115		3,213		1,629		1,350		1,461		450	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	2,721	3,014	1,796	2,099	1,929	2,217	3,100	3,580	2,130	2,620	924	1,227	589	892	643	969	146	257
CoD (\$M)	1,042	14,135	2,214	29,860	1,601	21,635	7,625	102,515	14,795	198,670	16,285	218,536	70,723	948,512	76,287	1,023,131	107,265	1,438,406
EVDSI (\$M)	1,679	-11,122	-418	-27,761	328	-19,418	-4,525	-98,934	-12,665	-196,050	-15,360	-217,309	-70,134	-947,620	-75,644	-1,022,161	-107,119	-1,438,149
ENBS (\$M)	1,679	-11,126	-418	-27,765	328	-19,422	-4,525	-98,938	-12,665	-196,054	-15,361	-217,313	-70,134	-947,624	-75,644	-1,022,165	-107,119	-1,438,153
ROI	8,395	-2,781	-2,091	-6,941	1,639	-4,856	-22,627	-24,735	-63,327	-49,013	-76,803	-54,328	-350,670	-236,906	-378,221	-255,541	-535,596	-359,538

Analysis type: Sensitivity analysis - Effect of adverse health outcome and cost of control

Decision-making paradigm: TRDM

Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using alternative annualized health cost (AHC) or annualized maximum control cost (ACC_{max}).

This analysis exhibits the effect of assessing VOI for various adverse health effects and cost of control.

AHC = \$1K, ACC_{max} = 23.1B

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	3,499		7,111		5,268		23,073		44,572		49,166		211,485		228,064		320,472	
EVIPPI (\$M)	17		1,385		1,677		16,956		32,265		34,238		144,327		156,620		208,591	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	1.0	4	429	749	781	1,158	14,312	16,157	29,667	31,438	33,227	33,903	138,937	142,513	154,465	156,070	206,727	207,787
CoD (\$M)	<0.1	2	18	428	33	662	610	9,234	1,264	17,966	1,416	19,375	5,921	81,445	6,583	89,192	8,810	118,747
EVDSI (\$M)	0.9	2	411	321	747	496	13,702	6,924	28,402	13,472	31,811	14,528	133,016	61,069	147,882	66,878	197,916	89,039
ENBS (\$M)	0.7	-2	411	317	747	492	13,702	6,920	28,402	13,468	31,811	14,524	133,016	61,065	147,881	66,874	197,916	89,035
ROI	4	-1	2,055	79	3,735	123	68,509	1,730	142,011	3,367	159,053	3,631	665,079	15,266	739,407	16,719	989,580	22,259

AHC = \$10K, ACC_{max} = 23.1B (baseline analysis)

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	34,985		71,112		52,678		230,732		445,722		491,657		2,114,853		2,280,636		3,204,717	
EVIPPI (\$M)	169		13,847		16,765		169,559		322,652		342,378		1,443,267		1,566,202		2,085,909	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	10	43	4,294	7,490	7,805	11,584	143,120	161,570	296,667	314,381	332,269	339,030	1,389,375	1,425,135	1,544,647	1,560,703	2,067,267	2,077,867
CoD (\$M)	0.4	25	183	4,280	333	6,620	6,100	92,335	12,644	179,665	14,161	193,751	59,214	814,446	65,831	891,921	88,105	1,187,474
EVDSI (\$M)	9	19	4,111	3,209	7,473	4,964	137,020	69,235	284,023	134,716	318,108	145,279	1,330,161	610,689	1,478,816	668,782	1,979,162	890,394
ENBS (\$M)	9	15	4,111	3,205	7,472	4,960	137,020	69,231	284,023	134,712	318,108	145,275	1,330,161	610,685	1,478,816	668,778	1,979,162	890,390
ROI	44	4	20,556	801	37,362	1,240	685,100	17,308	1,420,115	33,678	1,590,540	36,319	6,650,803	152,671	7,394,078	167,194	9,895,810	222,597

AHC = \$110K, ACC_{max} = 23.1B

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	384,835		782,228		579,455		2,538,052		4,902,938		5,408,222		23,263,380		25,086,999		35,251,887	
EVIPPI (\$M)	1,855		152,314		184,418		1,865,152		3,549,171		3,766,156		15,875,937		17,228,218		22,944,997	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	104	475	47,239	82,388	85,858	127,425	1,574,318	1,777,274	3,263,335	3,458,191	3,654,961	3,729,325	15,283,120	15,676,483	16,991,118	17,167,730	22,739,939	22,856,542
CoD (\$M)	4	272	2,013	47,084	3,659	72,822	67,096	1,015,688	139,080	1,976,310	155,771	2,131,260	651,351	8,958,901	724,145	9,811,129	969,154	13,062,209
EVDSI (\$M)	100	204	45,225	35,304	82,199	54,603	1,507,222	761,585	3,124,255	1,481,881	3,499,190	1,598,066	14,631,769	6,717,582	16,266,974	7,356,601	21,770,785	9,794,333
ENBS (\$M)	100	200	45,225	35,300	82,198	54,599	1,507,222	761,581	3,124,255	1,481,877	3,499,190	1,598,062	14,631,769	6,717,578	16,266,974	7,356,597	21,770,785	9,794,329
ROI	499	50	226,126	8,825	410,992	13,650	7,536,108	190,395	15,621,276	370,469	17,495,950	399,515	73,158,843	1,679,395	81,334,868	1,839,149	108,853,925	2,448,582

Analysis type: Sensitivity analysis - Effect of toxicity distribution

Decision-making paradigm: BRDM and TRDM

Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using prior uncertainty distribution for chemical toxicity using carcinogenic potency data from Krewski et al. (1993b).

NOTE: These results are also presented as Table 6-6.

A. VOI analysis results for BRDM

μ_{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ_{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	27		61		48		86		98		100		100		100		100	
EV CI (\$M)	129,428		237,817		194,581		358,152		571,988		676,562		2,329,041		2,480,039		3,806,154	
EVIPPI (\$M)	65,811		115,673		93,430		175,447		179,633		135,545		113,315		118,104		59,348	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	56,481	60,904	100,899	107,906	80,973	86,872	156,186	165,718	151,832	165,240	107,059	120,387	74,143	91,643	77,441	95,645	32,127	43,662
CoD (\$M)	2,726	39,078	6,964	97,380	4,711	66,546	22,903	312,555	51,142	693,430	64,659	874,636	323,617	4,349,442	347,554	4,670,818	554,596	7,443,281
EVDSI (\$M)	53,755	21,827	93,936	10,526	76,261	20,327	133,283	-146,837	100,691	-528,190	42,401	-754,249	-249,474	-4,257,799	-270,113	-4,575,173	-522,469	-7,399,619
ENBS (\$M)	53,755	21,823	93,936	10,522	76,261	20,323	133,283	-146,841	100,691	-528,194	42,400	-754,253	-249,474	-4,257,803	-270,113	-4,575,177	-522,469	-7,399,623
ROI	268,774	5,456	469,678	2,631	381,306	5,081	666,416	-36,710	503,453	-132,048	212,002	-188,563	-1,247,370	-1,064,451	-1,350,566	-1,143,794	-2,612,345	-1,849,906

B. VOI analysis results for TRDM

μ_{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ_{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	136,902		300,309		224,151		739,349		1,620,126		2,086,632		9,848,148		10,557,494		16,786,910	
EVIPPI (\$M)	197		33,898		47,358		544,970		1,187,233		1,472,328		6,927,750		7,514,320		11,375,204	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	5	40	6,635	15,225	15,213	28,372	407,476	490,654	993,316	1,125,531	1,360,403	1,429,075	6,388,708	6,733,440	7,266,192	7,430,082	11,062,021	11,256,852
CoD (\$M)	0.2	23	283	8,701	648	16,214	17,366	280,402	42,334	643,226	57,979	816,697	272,280	3,848,071	309,678	4,246,193	471,452	6,433,141
EVDSI (\$M)	5	17	6,352	6,524	14,564	12,158	390,109	210,252	950,982	482,305	1,302,424	612,378	6,116,428	2,885,369	6,956,514	3,183,889	10,590,569	4,823,711
ENBS (\$M)	5	13	6,352	6,520	14,564	12,154	390,109	210,248	950,982	482,301	1,302,424	612,374	6,116,427	2,885,365	6,956,513	3,183,885	10,590,569	4,823,707
ROI	25	3	31,761	1,630	72,820	3,038	1,950,546	52,562	4,754,909	120,575	6,512,120	153,093	30,582,137	721,341	34,782,567	795,971	52,952,843	1,205,927

Analysis type: Sensitivity analysis - Effect of affected population size

Decision-making paradigm: BRDM

Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using reduced population size.

Population size N = 330M (baseline analysis)

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	0		0		0		52		78		88		100		100		100	
EV CI (\$M)	34,985		71,112		52,678		187,116		293,406		326,454		682,822		718,084		914,879	
EVIPPI (\$M)	9,562		23,724		14,524		112,762		153,501		145,812		118,826		121,541		73,520	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	6,714	7,997	18,304	20,792	10,634	12,401	98,386	105,280	132,933	142,679	125,722	135,160	86,256	100,974	87,670	102,955	47,053	58,675
CoD (\$M)	286	4,570	780	11,882	453	7,087	6,052	85,092	12,157	168,585	12,399	171,653	64,708	876,092	70,331	951,815	99,596	1,342,144
EVDSI (\$M)	6,428	3,427	17,524	8,910	10,180	5,314	92,334	20,188	120,776	-25,907	113,323	-36,493	21,548	-775,117	17,339	-848,860	-52,543	-1,283,469
ENBS (\$M)	6,428	3,423	17,524	8,906	10,180	5,310	92,334	20,184	120,775	-25,911	113,322	-36,497	21,547	-775,121	17,339	-848,864	-52,544	-1,283,473
ROI	32,140	856	87,618	2,226	50,901	1,327	461,668	5,046	603,877	-6,478	566,612	-9,124	107,737	-193,780	86,693	-212,216	-262,718	-320,868

Population size N = 165M

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	0		0		0		22		49		51		100		100		100	
EV CI (\$M)	17,493		35,556		26,339		110,444		189,429		212,937		457,457		475,088		573,771	
EVIPPI (\$M)	2,891		7,566		4,305		66,439		106,406		102,009		133,950		135,913		91,069	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	1,713	2,221	5,055	6,170	2,672	3,384	56,345	61,126	91,213	98,371	87,223	94,152	105,044	118,264	105,801	119,556	64,808	76,603
CoD (\$M)	73	1,269	215	3,526	114	1,934	2,611	37,745	5,312	75,323	5,119	72,604	30,047	410,461	32,861	448,495	46,599	631,602
EVDSI (\$M)	1,640	952	4,840	2,644	2,558	1,450	53,734	23,380	85,901	23,047	82,104	21,549	74,997	-292,196	72,940	-328,938	18,209	-554,998
ENBS (\$M)	1,639	948	4,840	2,640	2,558	1,446	53,734	23,376	85,901	23,043	82,103	21,545	74,997	-292,200	72,940	-328,942	18,209	-555,002
ROI	8,197	237	24,198	660	12,790	362	268,671	5,844	429,503	5,761	410,517	5,386	374,983	-73,050	364,701	-82,236	91,043	-138,751

Population size N = 33M

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
ORE	0		0		0		0		0		0		40		45		64	
EV CI (\$M)	3,499		7,111		5,268		23,073		44,572		49,166		195,699		207,335		278,438	
EVIPPI (\$M)	66		200		87		8,953		17,404		12,895		89,158		97,338		116,733	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	19	36	70	118	27	48	5,899	7,248	12,331	14,599	8,827	10,632	73,452	80,629	80,484	88,181	98,967	107,114
CoD (\$M)	0.8	20	3	68	1.1	27	251	4,142	526	8,343	376	6,076	3,803	55,100	4,314	62,240	6,009	85,236
EVDSI (\$M)	18	15	67	51	25	21	5,648	3,106	11,805	6,256	8,450	4,556	69,649	25,529	76,171	25,941	92,957	21,878
ENBS (\$M)	18	11	67	47	25	17	5,648	3,102	11,805	6,252	8,450	4,552	69,648	25,525	76,170	25,937	92,957	21,874
ROI	91	3	336	12	126	4	28,238	775	59,026	1,563	42,251	1,138	348,242	6,381	380,852	6,484	464,786	5,469

Analysis type: Sensitivity analysis - Effect of affected population size

Decision-making paradigm: TRDM

Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using reduced population size.

Population size N = 330M (baseline analysis)

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	34,985		71,112		52,678		230,732		445,722		491,657		2,114,853		2,280,636		3,204,717	
EVIPPI (\$M)	169		13,847		16,765		169,559		322,652		342,378		1,443,267		1,566,202		2,085,909	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	10	43	4,294	7,490	7,805	11,584	143,120	161,570	296,667	314,381	332,269	339,030	1,389,375	1,425,135	1,544,647	1,560,703	2,067,267	2,077,867
CoD (\$M)	0.4	25	183	4,280	333	6,620	6,100	92,335	12,644	179,665	14,161	193,751	59,214	814,446	65,831	891,921	88,105	1,187,474
EVDSI (\$M)	9	19	4,111	3,209	7,473	4,964	137,020	69,235	284,023	134,716	318,108	145,279	1,330,161	610,689	1,478,816	668,782	1,979,162	890,394
ENBS (\$M)	9	15	4,111	3,205	7,472	4,960	137,020	69,231	284,023	134,712	318,108	145,275	1,330,161	610,685	1,478,816	668,778	1,979,162	890,390
ROI	44	4	20,556	801	37,362	1,240	685,100	17,308	1,420,115	33,678	1,590,540	36,319	6,650,803	152,671	7,394,078	167,194	9,895,810	222,597

Population size N = 165M

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	17,493		35,556		26,339		115,366		222,861		245,828		1,057,426		1,140,318		1,602,358	
EVIPPI (\$M)	84		6,923		8,383		84,780		161,326		171,189		721,634		783,101		1,042,954	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	5	22	2,147	3,745	3,903	5,792	71,560	80,785	148,333	157,191	166,135	169,515	694,687	712,567	772,324	780,351	1,033,634	1,038,934
CoD (\$M)	0.2	12	92	2,140	166	3,310	3,050	46,168	6,322	89,832	7,080	96,875	29,607	407,223	32,916	445,960	44,052	593,737
EVDSI (\$M)	5	9	2,056	1,605	3,736	2,482	68,510	34,618	142,012	67,358	159,054	72,639	665,080	305,345	739,408	334,391	989,581	445,197
ENBS (\$M)	4	5	2,056	1,601	3,736	2,478	68,510	34,614	142,011	67,354	159,054	72,635	665,080	305,341	739,408	334,387	989,581	445,193
ROI	22	1.3	10,278	400	18,680	619	342,549	8,653	710,057	16,839	795,270	18,159	3,325,401	76,335	3,697,038	83,597	4,947,905	111,298

Population size N = 33M

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
EV CI (\$M)	3,499		7,111		5,268		23,073		44,572		49,166		211,485		228,064		320,472	
EVIPPI (\$M)	17		1,385		1,677		16,956		32,265		34,238		144,327		156,620		208,591	
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVISI (\$M)	1.0	4	429	749	781	1,158	14,312	16,157	29,667	31,438	33,227	33,903	138,937	142,513	154,465	156,070	206,727	207,787
CoD (\$M)	<0.1	2	18	428	33	662	610	9,234	1,264	17,966	1,416	19,375	5,921	81,445	6,583	89,192	8,810	118,747
EVDSI (\$M)	0.9	2	411	321	747	496	13,702	6,924	28,402	13,472	31,811	14,528	133,016	61,069	147,882	66,878	197,916	89,039
ENBS (\$M)	0.7	-2	411	317	747	492	13,702	6,920	28,402	13,468	31,811	14,524	133,016	61,065	147,881	66,874	197,916	89,035
ROI	4	-0.5	2,055	79	3,735	123	68,509	1,730	142,011	3,367	159,053	3,631	665,079	15,266	739,407	16,719	989,580	22,259

Analysis type: Sensitivity analysis - Effect of choice of TRL

Decision-making paradigm: TRDM

Description: This table contains VDI analysis results for nine exposure scenarios considered in the baseline analysis with TRL set to 10⁴ (rather than 10⁵).

NOTE: These results are also presented as Table 6.8.

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
σ _{exp}	1		2		3		4		5		6		7		8		9	
Scenario	1		2		3		4		5		6		7		8		9	
EV [C] (\$M)	NA		71,112		52,678		230,732		445,722		491,637		2,114,833		2,280,636		3,204,717	
EV [PI] (\$M)	NA		1,912		2,894		156,207		303,794		317,034		1,382,248		1,544,887		2,034,839	
EV [PP] (\$M)	NA																	
ETAP	ETAP	THNA	ETAP	THNA	ETAP	THNA	ETAP	THNA	ETAP	THNA	ETAP	THNA	ETAP	THNA	ETAP	THNA	ETAP	THNA
EV [SI] (\$M)	NA	NA	207	612	498	1,205	85,218	125,193	199,339	255,108	251,940	287,502	1,114,028	1,267,152	1,358,616	1,477,423	1,839,611	1,945,477
CoD (\$M)	NA	NA	9	350	21	689	3,632	71,546	8,496	145,791	10,737	164,304	47,479	724,160	57,903	844,327	78,402	1,111,814
EV [DS] (\$M)	NA	NA	198	262	477	516	81,586	53,647	190,843	109,317	241,203	123,199	1,066,590	942,991	1,300,713	633,095	1,761,209	833,663
ENIS (\$M)	NA	NA	198	262	477	516	81,586	53,646	190,843	109,317	241,203	123,199	1,066,590	942,991	1,300,713	633,095	1,761,209	833,663
ROI	NA	NA	991	65	2,385	129	407,931	13,412	954,215	27,329	1,206,013	30,800	5,332,748	135,748	6,503,564	158,274	8,806,044	208,416

#VALUE! 925 2256 394520 926886 1175213 5197000 6345291 8597628

Analysis type: Sensitivity analysis - Effect of possible additional sources of uncertainty

Decision-making paradigm: BRDM and TRDM

Description: For each of the nine exposure scenarios considered in the baseline analysis, VOI analysis was performed using sample variability of ETAP including the discordance measure between ETAP and traditional THHA.

NOTE: These results are also presented as Table 6-9.

A. VOI analysis results for BRDM

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
	1	2	3	4	5	6	7	8	9									
ORE	0	0	0	52	78	88	100	100	100	100	100	100	100	100	100	100	100	100
EV/CI (\$M)	34,985	71,112	52,678	187,116	293,406	326,454	682,822	718,084	914,879	914,879	914,879	914,879	914,879	914,879	914,879	914,879	914,879	914,879
EV/PP1 (\$M)	9,562	23,724	14,524	112,762	153,501	145,812	118,826	121,541	73,520	73,520	73,520	73,520	73,520	73,520	73,520	73,520	73,520	73,520
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVSI (\$M)	4,361	7,997	13,441	20,792	7,300	12,401	83,318	105,280	112,144	142,679	105,930	135,160	58,798	100,974	59,298	102,955	27,173	58,675
CoD (\$M)	186	4,570	573	11,882	311	7,087	5,410	85,092	11,271	168,585	11,555	171,653	63,538	876,092	69,122	951,815	98,749	1,342,144
EVDSI (\$M)	4,175	3,427	12,869	8,910	6,988	5,314	77,908	20,188	100,873	-25,907	94,374	-36,491	-4,740	-775,117	-9,824	-848,864	-71,576	-1,283,469
ENBS (\$M)	4,175	3,423	12,868	8,906	6,988	5,310	77,908	20,184	100,873	-25,911	94,374	-36,497	-4,740	-775,121	-9,824	-848,864	-71,576	-1,283,473
ROI	20,875	856	64,342	2,226	34,941	1,327	389,540	5,046	504,365	-6,478	471,870	-9,124	-23,700	-193,780	-49,121	-212,216	-357,880	-320,868

B. VOI analysis results for TRDM

H _{exp}	Low						Medium						High					
	Low		Medium		High		Low		Medium		High		Low		Medium		High	
	1	2	3	4	5	6	7	8	9									
EV/CI (\$M)	34,985	71,112	52,678	230,732	445,722	491,657	2,114,853	2,280,636	3,204,717	3,204,717	3,204,717	3,204,717	3,204,717	3,204,717	3,204,717	3,204,717	3,204,717	3,204,717
EV/PP1 (\$M)	169	13,847	16,765	169,559	322,652	342,378	1,443,267	1,566,202	2,085,909	2,085,909	2,085,909	2,085,909	2,085,909	2,085,909	2,085,909	2,085,909	2,085,909	2,085,909
	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA	ETAP	THHA
EVSI (\$M)	0.2	43	799	7,490	2,312	11,584	85,293	161,570	226,786	314,381	306,819	339,030	1,257,430	1,425,135	1,465,699	1,560,703	2,013,589	2,077,867
CoD (\$M)	-0.1	25	34	4,280	99	6,620	3,635	92,335	9,665	179,665	13,076	193,751	53,590	814,446	63,467	891,921	85,817	1,187,474
EVDSI (\$M)	0.2	19	765	3,209	2,214	4,964	81,658	69,235	217,121	134,716	293,743	145,275	1,203,840	610,689	1,403,233	668,782	1,927,772	890,394
ENBS (\$M)	-0.01	15	765	3,205	2,214	4,960	81,658	69,231	217,121	134,712	293,743	145,275	1,203,840	610,685	1,403,232	668,778	1,927,771	890,390
ROI	-0.2	4	3,826	801	11,068	1,240	408,291	17,308	1,085,604	33,678	1,468,713	36,319	6,019,198	152,671	7,016,162	167,194	9,638,857	222,597