

Appendix: Scenario Analyses Tables

Table S1: Global costs for hearing loss in 2019 with education costs incurred at moderate levels of hearing loss (2019 International \$ millions)

Region Name	Health Care Children*	Health Care Adults*	Total Health Care Costs*	Education Costs*	Productivity Losses§	Quality of Life Costs β	All Costs
High-income region	1,898,268	146,371,432	148,269,700	8,936,268	57,056,858	215,172,766	429,435,592
Central / Eastern Europe and Central Asia region	822,666	23,330,088	24,152,754	3,821,476	13,292,073	38,957,030	80,223,333
Sub-Saharan Africa region	1,834,228	5,043,063	6,877,291	8,060,743	3,588,040	11,511,306	30,037,381
Middle East and North Africa region	656,682	11,480,989	12,137,670	3,060,850	3,909,690	20,786,906	39,895,116
South Asia region	3,012,968	21,018,826	24,031,793	14,242,031	19,439,085	29,418,199	87,131,108
Asia Pacific region	1,473,967	13,200,983	14,674,950	6,769,487	18,107,216	16,864,824	56,416,477
Latin America and Caribbean region	1,003,852	18,766,640	19,770,493	4,645,449	6,074,895	36,612,775	67,103,612
East Asia region	2,264,038	61,942,889	64,206,928	10,035,267	61,024,020	88,275,564	223,541,778
World	12,966,669	301,154,910	314,121,579	59,571,571	182,491,876	457,599,370	1,013,784,396
% of total costs	1.28%	29.71%	30.99%	5.88%	18.00%	45.14%	100.00%

* At least moderately impaired hearing only

§ At least moderately – severe impaired hearing only.

β All impaired hearing

Table S2: Global costs for hearing loss in 2019 with productivity losses incurred at moderate levels of hearing loss (2019 International \$ millions)

Region Name	Health Care Children*	Health Care Adults*	Total Health Care Costs*	Education Costs§	Productivity Losses*	Quality of Life Costs β	All Costs
High-income region	1,898,268	146,371,432	148,269,700	4,115,188	87,113,023	185,116,601	424,614,512
Central / Eastern Europe and Central Asia region	822,666	23,330,088	24,152,754	1,646,556	18,666,865	33,582,238	78,048,413
Sub-Saharan Africa region	1,834,228	5,043,063	6,877,291	3,659,754	4,025,990	11,073,356	25,636,391
Middle East and North Africa region	656,682	11,480,989	12,137,670	1,344,013	5,318,737	19,377,858	38,178,279
South Asia region	3,012,968	21,018,826	24,031,793	5,623,361	27,372,868	21,484,416	78,512,438
Asia Pacific region	1,473,967	13,200,983	14,674,950	3,332,240	22,617,918	12,354,122	52,979,229
Latin America and Caribbean region	1,003,852	18,766,640	19,770,493	1,780,973	8,626,331	34,061,339	64,239,135
East Asia region	2,264,038	61,942,889	64,206,928	5,404,896	78,905,588	70,393,996	218,911,407
World	12,966,669	301,154,910	314,121,579	26,906,979	252,647,319	387,443,927	981,119,804
% of total costs	1.32%	30.70%	32.02%	2.74%	25.75%	39.49%	100.00%

* At least moderately impaired hearing only

§ At least moderately – severe impaired hearing only.

β All impaired hearing

Table S3: Global costs using Global Burden of Disease lower estimates for prevalence and years lived with disability for hearing loss in 2019 (2019 International \$ millions)

Region Name	Health Care Children*	Health Care Adults*	Total Health Care Costs*	Education Costs§	Productivity Losses§	Quality of Life Costs β	All Costs
High-income region	1,579,132	128,760,631	130,339,762	3,435,478	50,463,036	116,526,441	300,764,718
Central / Eastern Europe and Central Asia region	690,926	20,966,250	21,657,176	1,384,513	11,925,770	19,883,112	54,850,571
Sub-Saharan Africa region	1,536,116	4,541,657	6,077,774	3,070,612	3,193,390	6,087,532	18,429,308
Middle East and North Africa region	546,944	10,118,341	10,665,285	1,123,797	3,433,046	11,543,867	26,765,995
South Asia region	2,521,536	19,058,995	21,580,530	4,706,191	17,525,931	12,435,399	56,248,052
Asia Pacific region	1,255,116	12,093,697	13,348,813	2,838,804	16,447,091	4,916,983	37,551,691
Latin America and Caribbean region	847,625	16,783,293	17,630,918	1,499,897	5,345,078	20,320,397	44,796,290
East Asia region	1,924,404	56,300,302	58,224,705	4,561,099	55,489,989	36,320,628	154,596,421
World	10,901,798	268,623,165	279,524,963	22,620,391	163,823,331	228,034,359	694,003,045
% of total costs	1.57%	38.71%	40.28%	3.26%	23.61%	32.86%	100.00%

* At least moderately impaired hearing only

§ At least moderately – severe impaired hearing only.

β All impaired hearing

Table S4: Global costs using Global Burden of Disease higher estimates for prevalence and years lived with disability for hearing loss in 2019 (2019 International \$ millions)

Region Name	Health Care Children*	Health Care Adults*	Total Health Care Costs*	Education Costs§	Productivity Losses§	Quality of Life Costs β	All Costs
High-income region	5,026,050	165,042,420	170,068,470	9,854,739	64,167,387	197,267,123	441,357,718
Central / Eastern Europe and Central Asia region	1,409,104	25,948,956	27,358,060	2,865,895	14,696,050	60,431,733	105,351,739
Sub-Saharan Africa region	1,654,460	5,571,189	7,225,649	2,806,776	4,003,828	50,007,837	64,044,089
Middle East and North Africa region	1,339,758	12,977,011	14,316,769	2,831,383	4,431,129	43,016,124	64,595,404
South Asia region	2,050,902	23,126,532	25,177,433	3,131,584	21,430,713	109,293,199	159,032,930
Asia Pacific region	3,024,290	14,382,854	17,407,143	7,137,409	19,801,152	67,369,031	111,714,735
Latin America and Caribbean region	1,512,994	20,907,174	22,420,168	2,512,575	6,880,925	79,145,701	110,959,369
East Asia region	2,646,786	67,312,012	69,958,798	5,942,497	66,668,997	177,467,744	320,038,036
World	18,664,344	335,268,147	353,932,491	37,082,857	202,080,180	783,998,491	1,377,094,020
% of total costs	1.36%	24.35%	25.70%	2.69%	14.67%	56.93%	100.00%

* At least moderately impaired hearing only

§ At least moderately – severe impaired hearing only.

β All impaired hearing

Table 5: Global costs for hearing loss in 2019 with uniform 5% reduction in prevalence and years lived with disability for hearing loss (2019 International \$ millions)

Region Name	Health Care Children*	Health Care Adults*	Total Health Care Costs*	Education Costs§	Productivity Losses§	Quality of Life Costs β	All Costs
High-income region	1,803,355	139,052,860	140,856,215	3,909,428	53,116,612	205,501,531	403,383,786
Central / Eastern Europe and Central Asia region	781,533	22,163,584	22,945,117	1,564,228	12,402,788	37,233,860	74,145,992
Sub-Saharan Africa region	1,742,517	4,790,910	6,533,427	3,476,766	3,394,295	10,950,084	24,354,572
Middle East and North Africa region	623,848	10,906,939	11,530,787	1,276,812	3,698,134	19,763,632	36,269,365
South Asia region	2,862,319	19,967,884	22,830,204	5,342,193	18,296,410	28,118,010	74,586,816
Asia Pacific region	1,400,268	12,540,934	13,941,202	3,165,628	17,067,112	16,156,326	50,330,268
Latin America and Caribbean region	953,660	17,828,308	18,781,968	1,691,924	5,701,320	34,851,966	61,027,179
East Asia region	2,150,836	58,845,745	60,996,581	5,134,651	57,149,037	84,685,568	207,965,837
World	12,318,336	286,097,165	298,415,500	25,561,630	170,825,708	437,260,976	932,063,814
% of total costs	1.32%	30.70%	32.02%	2.74%	18.33%	46.91%	100.00%

* At least moderately impaired hearing only

§ At least moderately – severe impaired hearing only.

β All impaired hearing

Table S6: Global costs for hearing loss in 2019 using average world PPP adjusted GDP per capita (2019 International \$ millions)

Region Name	Health Care Children*	Health Care Adults*	Total Health Care Costs*	Education Costs§	Productivity Losses§	Quality of Life Costs β	All Costs
High-income region	1,693,197	176,694,056	178,387,252	694,664	57,056,858	31,695,598	267,834,372
Central / Eastern Europe and Central Asia region	1,833,412	59,766,720	61,600,132	704,331	13,292,073	23,377,304	98,973,839
Sub-Saharan Africa region	23,362,054	75,357,887	98,719,941	8,659,038	3,588,040	59,014,671	169,981,690
Middle East and North Africa region	2,106,407	41,615,106	43,721,513	830,134	3,909,690	19,703,615	68,164,952
South Asia region	22,157,405	203,225,636	225,383,040	7,990,749	19,439,085	109,477,516	362,290,390
Asia Pacific region	6,640,943	71,288,939	77,929,882	2,870,378	18,107,216	33,538,314	132,445,791
Latin America and Caribbean region	3,105,196	73,483,015	76,588,211	1,053,829	6,074,895	39,628,928	123,345,864
East Asia region	6,552,416	236,885,657	243,438,073	3,001,413	61,024,020	93,347,824	400,811,330
World	67,451,030	938,317,015	1,005,768,044	25,804,537	182,491,876	409,783,770	1,623,848,227
% of total costs	4.15%	57.78%	61.94%	1.59%	11.24%	25.24%	100.00%

* At least moderately impaired hearing only

§ At least moderately – severe impaired hearing only.

β All impaired hearing