

Massachusetts

Direct Costs

Chronic Disease	2003			2023											
	PRC (Thousands)	Expenditure per PRC (\$)	Total Expenditure (US\$ Billions)	Projections - Level						Projections - Difference					
				PRC (Thousands)		Expenditure per PRC (\$)		Total Expenditure (US\$ Billions)		PRC (Thousands)		Expenditure per PRC (\$)		Avoidable Costs (US\$ Billions)	
				Baseline	Optimistic	Baseline	Optimistic	Baseline	Optimistic	Absolute	Percent	Absolute	Percent	Absolute	Percent
Cancer	257	5,723	1.47	375	309	10,304	9,396	3.87	2.90	-66	-17.71	-909	-8.82	-0.97	-24.97
Breast cancer	33	6,258	0.20	44	38	11,354	10,347	0.50	0.40	-5	-12.30	-1,007	-8.87	-0.10	-20.07
Colon cancer	8	14,029	0.11	9	7	27,632	25,192	0.24	0.18	-2	-17.67	-2,441	-8.83	-0.06	-24.94
Lung cancer	9	21,366	0.19	11	9	38,856	35,411	0.42	0.32	-2	-18.44	-3,445	-8.87	-0.11	-25.68
Prostate cancer	25	5,720	0.14	40	31	10,599	9,660	0.42	0.30	-9	-21.48	-939	-8.86	-0.12	-28.43
Other cancers	182	4,483	0.82	272	223	8,380	7,638	2.28	1.70	-49	-18.00	-742	-8.85	-0.58	-25.26
Diabetes	285	2,322	0.66	396	343	4,312	3,930	1.71	1.35	-53	-13.30	-382	-8.86	-0.36	-20.98
Heart disease	391	3,510	1.37	487	319	6,867	6,261	3.35	1.99	-169	-34.63	-607	-8.83	-1.35	-40.40
Pulmonary conditions	1,342	1,003	1.34	1,624	1,395	1,919	1,749	3.12	2.44	-228	-14.05	-170	-8.84	-0.67	-21.65
Hypertension	762	978	0.75	956	777	1,818	1,657	1.74	1.29	-179	-18.70	-161	-8.86	-0.45	-25.90
Stroke	56	7,126	0.40	66	53	14,177	12,926	0.93	0.69	-12	-18.84	-1,252	-8.83	-0.24	-26.01
Mental disorders	1,089	1,928	2.09	1,509	1,322	3,553	3,238	5.36	4.28	-186	-12.35	-315	-8.86	-1.08	-20.11
Total	4,181	1,931	8.07	5,412	4,519	4,282	3,903	20.07	14.95	-893	-16.51	-379	-8.85	-5.12	-25.52

Indirect Impacts* (US\$ Billions)

Chronic Disease	2003		2023										
	Total	Level	Individual				Caregiver				Total		
			Lost Work Days		Presenteeism		Lost Work Days		Presenteeism		Projections - Level		Projections - Difference
			Baseline	Optimistic	Baseline	Optimistic	Baseline	Optimistic	Baseline	Optimistic	Baseline	Optimistic	Absolute
Cancer	6.58	1.07	0.87	18.06	10.75	0.077	0.063	1.75	1.14	20.96	12.82	-8.13	-38.81
Breast cancer	0.92	0.14	0.12	2.32	1.47	0.010	0.009	0.22	0.16	2.70	1.76	-0.94	-34.82
Colon cancer	0.47	0.07	0.06	1.14	0.68	0.005	0.004	0.11	0.07	1.33	0.81	-0.51	-38.78
Lung cancer	0.87	0.12	0.09	1.98	1.17	0.008	0.007	0.19	0.12	2.30	1.39	-0.91	-39.38
Prostate cancer	0.65	0.12	0.09	1.98	1.12	0.008	0.007	0.19	0.12	2.30	1.34	-0.96	-41.63
Other cancers	3.67	0.63	0.51	10.64	6.30	0.045	0.037	1.03	0.67	12.34	7.52	-4.82	-39.05
Diabetes	2.18	0.65	0.57	5.33	4.18	0.052	0.045	0.57	0.44	6.61	5.24	-1.37	-20.76
Heart disease	2.14	1.13	0.74	4.11	2.25	0.111	0.073	0.40	0.22	5.75	3.28	-2.47	-43.01
Asthma	2.55	1.34	1.15	4.77	3.88	0.097	0.084	0.46	0.38	6.67	5.49	-1.18	-17.74
Hypertension	5.79	2.31	1.88	11.98	9.47	0.227	0.184	1.16	0.92	15.67	12.45	-3.22	-20.55
Stroke	0.51	0.22	0.18	0.96	0.73	0.016	0.013	0.09	0.07	1.29	0.99	-0.30	-23.35
Emotional disturbances	6.13	2.03	1.78	14.78	12.42	0.147	0.129	1.42	1.19	18.37	15.52	-2.85	-15.54
Total	25.88	8.75	7.17	60.00	43.67	0.73	0.59	5.85	4.35	75.32	55.78	-19.54	-25.94

* Based on Nominal GDP

Intergenerational Impacts

Variables	1970	2003	2023								2050			
			2023				2023				2050		2050	
			Projections - Level				Projections - Difference				Projections - Level		Projections - Difference	
			Baseline	Optimistic	Absolute	Percent	Baseline	Optimistic	Absolute	Percent	Baseline	Optimistic	Absolute	Percent
Bachelor's degrees (percent)	12.60	34.80	42.24	44.99	2.75	6.52	51.01	59.88	8.87	17.38				
Capital stock (US\$ Billions)	205.24	590.77	1185.78	1229.06	43.28	3.64	3181.82	3491.66	309.84	9.72				
Life expectancy at 65 (years)	15.08	18.82	20.58	21.77	1.19	5.76	23.53	25.80	2.27	9.65				
GDP* by state (US\$ Billions)	56.50	298.07	406.65	435.39	28.74	7.07	618.85	727.76	108.91	17.60				

*Based on Real GDP