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Updated Osteoporosis Costs



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Updated costs of osteoporosis presented in the following publications:

- Wiktorowicz et al. Osteoporos Int. 2001;12:271-278
- Coyle et al. Drg Dev Res. 2000;49:135-140
- Goeree et al.



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Methodology (Wiktorowicz et al. & Coyle et al.)

- Costs were updated using the Consumer Price Index (CPI)
 - Indicator of the annual change in consumer prices experienced by the target population
- Utilized the health care component of the CPI, which is specific to health care goods and services
- Utilized estimates of CPI for Canada



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Wiktorowicz et al. 2001

Mean 1 year cost of osteoporosis.

	As reported in 1997 \$CDN	Adjusted to 2007 \$CDN
Community residents returned to community (n = 338)	\$21,385	\$26,474
Community residents transferred to long-term care (n = 61)	\$44,156	\$54,665
Long-term care residents (n = 105)	\$33,729	\$41,756



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Coyle et al. 2001

Mean 1 year cost of fracture.

	As reported in 1998 \$CDN	Adjusted to 2007 \$CDN
Hip fracture		
50-69 years old	\$18,874	\$22,855
70+ years old	\$21,442	\$25,965
Vertebral fracture		
50-69 years old	\$2,446	\$2,962
70+ years old	\$3,326	\$4,028
Wrist fracture		
50-69 years old	\$137	\$166
70+ years old	\$439	\$532



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Goeree et al. 2001

Total Health Care Costs

	Goeree et al. \$CDN 1993 (in millions)	Adjusted to \$CDN 2007 (in millions)
Acute Costs		
Hospitalization	437	565.65
Outpatient	13	16.83
Drug Therapy	15	19.42
Total	465	601.89
Long-term Care Facility Costs	563	728.74
Chronic Hospital Care Costs	279	361.14
Total Costs	1.3 billion	1.68 billion



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Goeree et al. 2001

Acute Care Costs of Osteoporosis and Fractures

	\$CDN 2007 (in millions)							
	45-59 years		60-74 years		≥ 75 years		Total (all ages)	
	Male	Female	Male	Female	Male	Female	Male	Female
Osteoporosis	0.26	0.78	1.04	4.40	3.37	17.34	4.79	22.52
Vertebral Fractures	3.11	3.24	8.41	16.44	15.66	46.34	27.18	66.01
Wrist Fractures	1.68	5.05	1.42	7.25	0.91	8.80	4.01	21.10
Hip Fractures	2.20	1.94	23.82	42.59	73.13	293.31	99.15	337.71
Total	7.25	11.00	34.69	70.67	93.07	365.80	135.13	447.34



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Acknowledgment

- Cornerstone Research Group