





SCORECARD FOR OSTEOPOROSIS IN EUROPE (SCOPE)

Epidemiology, Burden, and Treatment of Osteoporosis in Slovenia

This document highlights the key findings for Slovenia, published in "Osteoporosis in Europe: A Compendium of country-specific reports"¹. View the complete SCOPE 2021 report² and related 29 country profiles at:

https://www.osteoporosis.foundation/scope-2021

BURDEN OF DISEASE

Individuals with osteoporosis in Slovenia

125,000

INDIVIDUALS WITH OSTEOPOROSIS IN 2019



The prevalence of osteoporosis in the total population amounted to 5.4%, on par with the EU27+2 average (5.6%). In Slovenia, 21.5% of women and 6.0% of men aged 50 years or more were estimated to have osteoporosis.

New fragility fractures in Slovenia

NEW FRAGILITY FRACTURES







2 FRACTURES /HOUR

The number of new fragility fractures in Slovenia in 2019 has slightly decreased compared to 2010, equivalent to a decrement of 1.5 fractures less per 1000 individuals, totalling 18.9 fractures/ 1000 individuals in 2019.

Estimated annual number of deaths associated with a fracture event

In addition to pain and disability, some fractures are associated with premature mortality. SCOPE 2021 showed that the number of fracture-related deaths varied between the EU27+2 countries, reflecting the variable incidence of fractures rather than standards of healthcare.





EU 27+2 116/100,000 INDIVIDUALS AGED 50+

Remaining lifetime probability of hip fracture

+50
YEARS





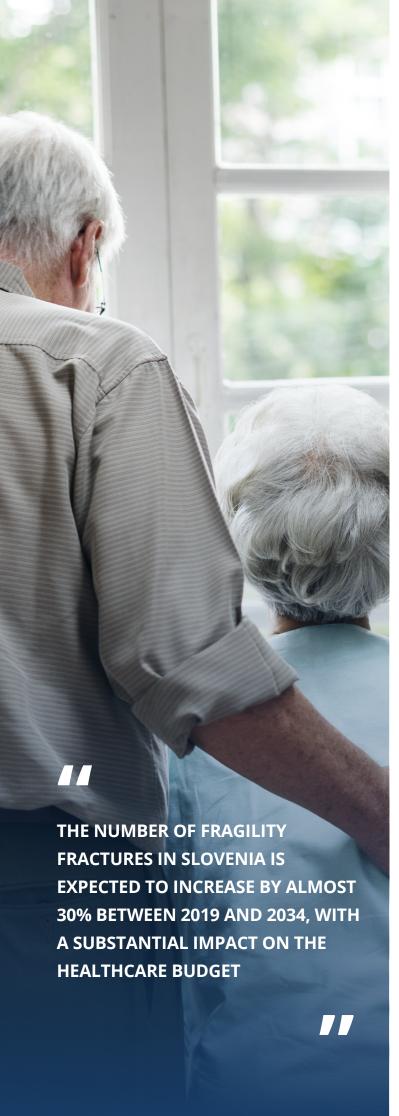
+50 YEARS





* No data available

Hip fracture is the most serious consequence of osteoporosis in terms of morbidity, mortality and health care expenditure. The remaining lifetime probability of hip fracture (%) at the ages of 50 years in women was 11.6%. No data was provided for men in Slovenia.



Projected increase in the number of fragility fractures

21,600 +29.6%

Age is an important risk factor for fractures. The population aged 50 years or more is projected to increase by 13.1% between 2019 and 2034, close to the EU27+2 average of 11.4%. The increases in men and women aged 75 years or more are even more marked; 64.9% for men; 33.3% for women. Accordingly, the number and burden of fragility fractures are likely to increase.

Healthcare cost of osteoporotic fractures

The cost of osteoporotic fractures in Slovenia accounted for approximately 2.5% of healthcare spending (i.e., €96 million out of €3.5 billion in 2019), lower than the EU27+2 average of 3.5%.

Type of costs	
Direct cost of incident fractures	€60.8 million
Ongoing cost resulting from fractures in previous years (long-term disability costs)	€26.7 million
Cost of pharmacological intervention (assessment & treatment)	€8.2 million
Total direct cost (excluding the value of QALYs* lost)	€96 million

^{*}QALYs: Quality-Adjusted Life-Year – a multidimensional outcome measure that incorporates both the Quality (health-related) and Quantity (length) of life

In 2019, the average direct cost of osteoporotic fractures in Slovenia was €46.3/person, while in 2010 the average was €30.9/person (increase of 50%).

The 2019 data ranked Slovenia in 19th place in terms of highest cost of osteoporotic fractures per capita in the surveyed 29 countries.

POLICY FRAMEWORK

Documentation of the burden of disease is an essential prerequisite to determine if the resources are appropriately allocated in accordance with the country's policy framework for the diagnosis and treatment of the disease.

Key measures of policy framework for osteoporosis in Slovenia

Measure	Estimate	
Established national fracture registries	No	
Osteoporosis recognised as a specialty	No	
Osteoporosis primarily managed in primary care	Yes	
Other specialties involved in osteoporosis care	Endocrinology, General internal medicine, Rheumatology, Gynaecology, Orthopaedics	
Advocacy areas covered by patient organisations	Policy, Capacity, Peer support	

Neither national fracture registries nor high quality national data on hip fracture rates were available in Slovenia.

Osteoporosis and metabolic bone disease are not recognised specialties in Slovenia. However, osteoporosis is recognised as a component of specialty training.

Advocacy by patient organisations can fall into four categories: policy, capacity building and education, peer support, research and development. For Slovenia, three of these advocacy areas (Policy, Capacity, Peer support) were covered by a patient organisation.

SERVICE PROVISION

The provision of medical services for osteoporosis was reviewed with certain key components, including reimbursement elements which may impair the delivery of healthcare.

Service provision for osteoporosis in Slovenia



Slovenia is one of the 12 (out of 27) countries that offered full reimbursement for osteoporosis medications.

The number of DXA units expressed per million of the general population amounted to 18 which puts Slovenia in 13th place among the EU27+2. The estimated average waiting time for DXA amounted to 7 days (5th rank). The reimbursement for DXA was conditional and limited only for secondary osteoporosis.

National fracture risk assessment models such as FRAX® were not available in Slovenia. However, the UK surrogate FRAX® model was introduced to Slovenia in 2013 and it is now widely used.

Guidelines for the management of osteoporosis were available with a focus on different specificities; postmenopausal women, osteoporosis in men, secondary osteoporosis including glucocorticoid-induced osteoporosis.

Fracture Liaison Services (FLS), also known as post-fracture care coordination programmes and care manager programmes, provide a system for the routine assessment and management of patients who have sustained a low trauma fracture. However, no FLS was reported for Slovenia.

Slovenia was one of the few countries with national quality indicators available to measure the quality of care provided to patients with osteoporosis or associated fractures.

SCORECARD

Service uptake for osteoporosis in Slovenia

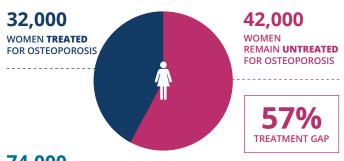
The condition of service uptake was evaluated with metrics that reflect fracture risk assessment, treatment gap, and management of surgery for hip fractures.

Measure	Estimate	Rank among EU27+2
Number of FRAX® sessions/ million people/year	41874*	1
Treatment gap for women eligible for treatment	57%	7
Proportion of surgically managed hip fractures	>90%	

^{*} counted with the use of a surrogate FRAX® model

There was considerable heterogeneity between the countries in web-based FRAX® usage. The average uptake for the EU27+2 was 1,555 sessions/million/year of the general population with an enormous range of 49 to 41,874 sessions/million. For Slovenia, the use of FRAX® amounted to 41874 sessions/million in 2019, with a 31-fold increase since 2011.

Do women at high fracture risk receive treatment?



74,000WOMEN **ELIGIBLE** FOR OSTEOPOROSIS TREATMENT

Many studies have demonstrated that a significant proportion of men and women at high fracture risk do not receive therapy for osteoporosis (the treatment gap). For Slovenia, the treatment gap amongst women **increased to 57%** in 2019, compared to 44% in 2010. In the EU27+2 the average gap was 71% but ranged from 32% to 87%.

For Slovenia, the average waiting time for hip fracture surgery after hospital admission was reported to be 1-2 days. The proportion of surgically managed hip fractures was over 90%.

Burden of Disease	
Hip Fracture Risk	
Fracture Risk	
Lifetime Risk	
FRAX® Risk	
Fracture Projections	

Policy Framework	
Quality of Data	
National Health Priority	
Care Pathway	
Specialist Training	
Society Support	

FRAX® Uptake Treatment Gap Δ Treatment Gap Waiting Time for Hin	Service Uptake	
Δ Treatment Gap	FRAX® Uptake	
'	Treatment Gap	
Waiting Time for Hin	∆ Treatment Gap	
Fracture Surgery	Waiting Time for Hip Fracture Surgery	

The elements of each domain in each country were scored and coded using a traffic light system (red, orange, green) and used to synthesise a scorecard.

Slovenia scores resulted in a 16th place regarding Burden of Disease. The combined Healthcare Provision (Policy Framework, Service Provision, and Service Uptake) scorecard resulted in a 16th place for Slovenia. Accordingly, Slovenia represents one of the low-burden low-provision countries among the 29 European surveyed countries.

Overall, scores had improved in 15 countries, remained constant in 8 countries and worsened in 3 countries since the previous SCOPE study in 2010. For Slovenia, the scores were worsened.

Acknowledgments

SCOPE Corresponding National Society based in Slovenia

Slovene Bone Society

References

- 1. Willers C, et al. Osteoporosis in Europe: A compendium of country-specific reports, Arch Osteoporos, 2022
- 2. Kanis JA, et al. SCOPE 2021: a new scorecard for osteoporosis in Europe, Arch Osteoporos, 2021



