

Costs of Hemophilia in Ukraine

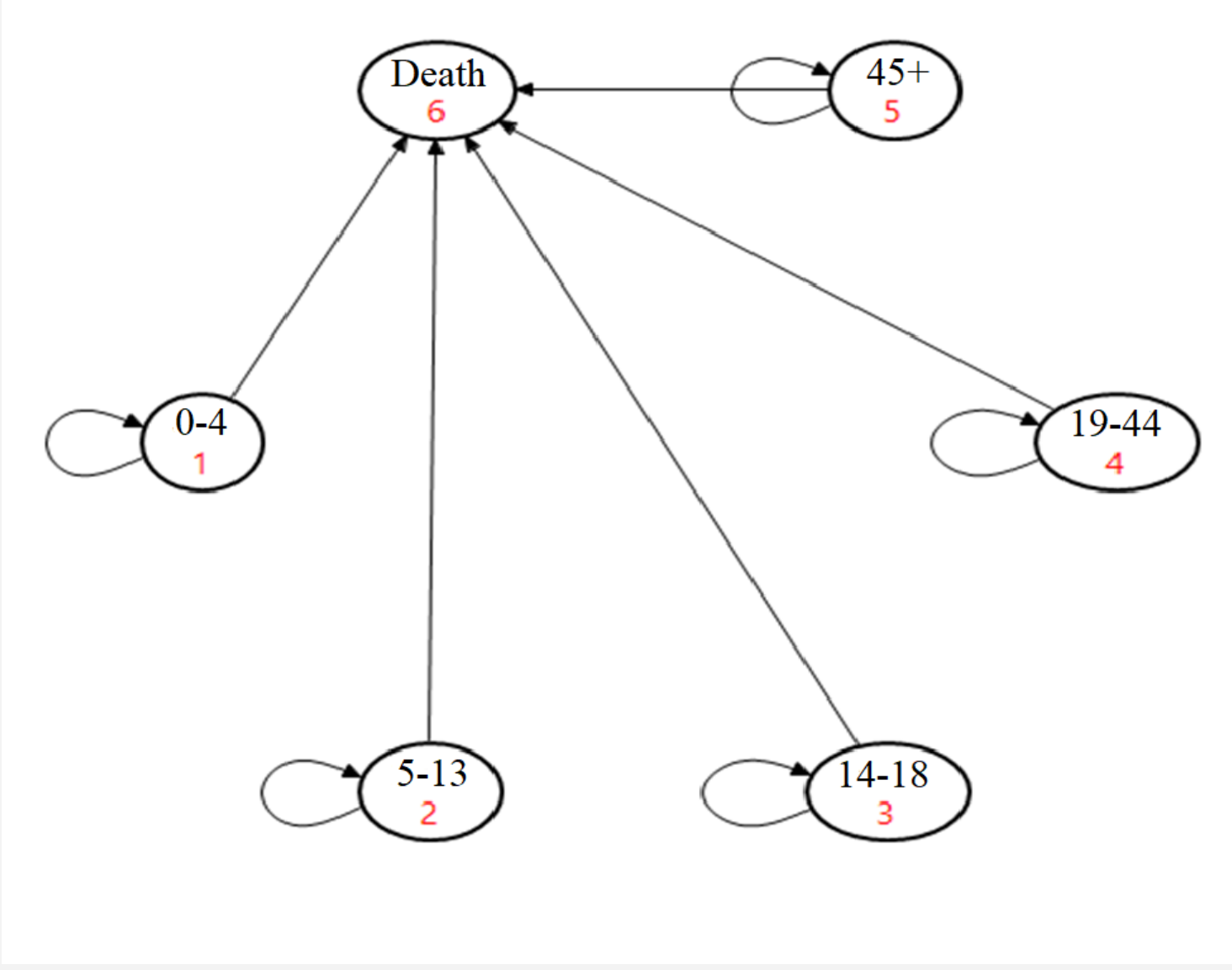
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Introduction

- ⌘ Hemophilia is estimated to occur in about one in 10,000 births, and the disease is fairly expensive¹.
- ⌘ Diagnosis of hemophilia is often difficult due to its rarity and complexity of laboratory studies².
- ⌘ Therefore, the present study aims to calculate the costs of hemophilia in Ukraine.

State TransitionDiagram for Patient Groups with and without Inhibitors



Tree Diagram for Patient with Inhibitors



Tree Diagram for Patient without Inhibitors



Method

- ⌘ The costs of hemophilia for inhibitor patients and non-inhibitors patients were calculated.
- ⌘ Age distribution, weight by age, bleeding rates and types, frequency of joint damage, physician visits and emergency room visits, medicine dose per kilogram, and mortality rates among hemophilia patients were obtained from expert opinions and a literature review.
- ⌘ Economic data on the costs of care were obtained from Fees for Contracted Paid Health Services, a list published by Kiev Regional Clinical Hospital and Theofania Clinical Hospital.
- ⌘ The analysis was made from the Ukraine Government's perspective and the time horizon was taken as 5 years.
- ⌘ Package prices for medicines were obtained based on the official prices determined by the Ministry of Health of Ukraine.

Results

- ⌘ The analyses showed that, for non-inhibitor patients, the annual cost per kilogram was 12,524₺, and the average annual cost was 713,861₺.
- ⌘ For patients with inhibitors, the annual cost per kilogram was 144,715₺, and the average annual cost per patient was 8,248,739₺.

Conclusions

- ⌘ The results of the study show that hemophilia patients with inhibitors have much higher healthcare costs in Ukraine than patients without inhibitors.
- ⌘ Accordingly, it can be said that the without inhibitor patient group offers less cost and less financial burden for Ukraine.
- ⌘ Weight control in people with hemophilia can help prevent joint damage and other related diseases and reduce the cost of treatment.

Treatment Cost of Patient without Inhibitors

Age Group	Patient Kg	Annual Cost	Average Annual Cost	Annual Cost per Kg
0-4 years old	12.5	156,548 ₺	713,861 ₺	12,524 ₺
5-13 years old	32	400,764 ₺		
14-18 years old	55	688,813 ₺		
19-44 years old	70	876,671 ₺		
45+ years old	70	876,671 ₺		

Treatment Cost of Patient with Inhibitors

Age Group	Patient Kg	Annual Cost	Average Annual Cost	Annual Cost per Kg
0-4 years old	12.5	1,808,934 ₺	8,248,739 ₺	144,715 ₺
5-13 years old	32	4,630,871 ₺		
14-18 years old	55	7,959,310 ₺		
19-44 years old	70	10,130,031 ₺		
45+ years old	70	10,130,031 ₺		

References

1. Metha, P., & Reddivari, A. (2022). Hemophilia. StatPearls.
2. Haider, M. Z., & Anwer, F. (2020). Acquired Hemophilia. StatPearls.

