

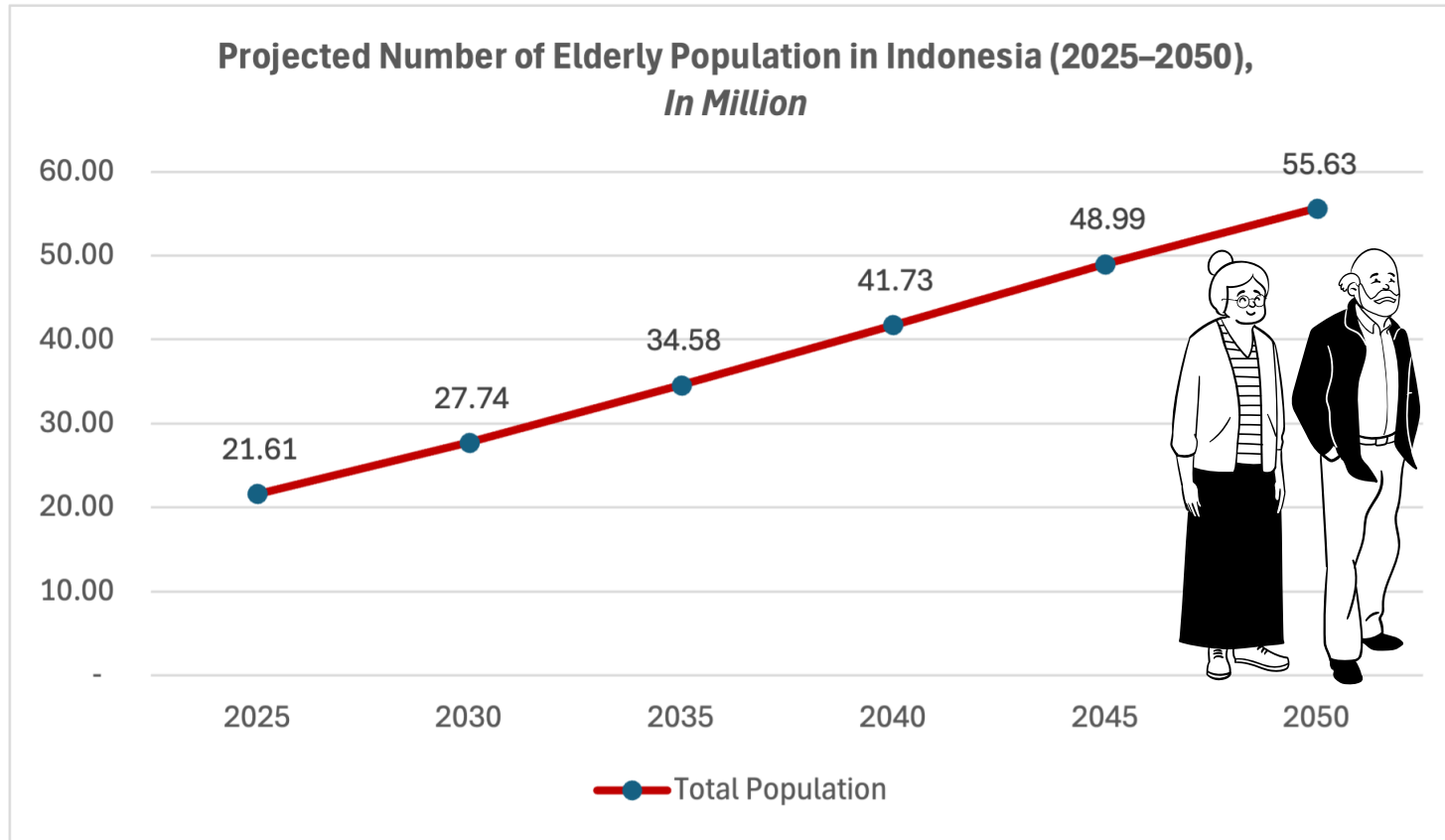


Herpes Zoster Potentially Reactivate to Elderly Population in Indonesia

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Background



Processed from Statistics Indonesia (BPS), Indonesia Population Projections 2020-2050, 2020 Population Census Results

- The elderly population will increase from 22 million in 2025 to 56 million (**double**) by 2050.
- **1 in 5** elderly individuals experiences health problems and reduced activity (2023)
- The **elderly dependency ratio** was 18 (2023) → There were 18 elderly dependents for every 100 people of working age.
- Herpes Zoster:
 - ✓ Adults & the elderly → high risk of developing Herpes Zoster
 - ✓ Preventable by HZ vaccine.
- Currently, HZ Vaccine is not funded by the government.

Methodology

- **Study design:** Quantitative analysis
- **Data source:** 1% sample of Indonesia's National Health Insurance (JKN) claims data (2015 – 2022)
- **Case identification:** ICD-10 code B02 (Herpes Zoster), included both primary and secondary diagnoses.
- **Data analysis:**
 - ❑ Rate (per 10,000 JKN members); stratified by region, age group, gender, and level of health facility.
 - ❑ Total claims calculated annually for outpatient and inpatient care, including per-person utilization in hospital.

Results

Top 10 Provinces with Highest Herpes Zoster Case Rates (per 10,000 JKN Members) Herpes Zoster in Primary Healthcare Facilities, 2015–2022

National Rate: 28 per 10,000

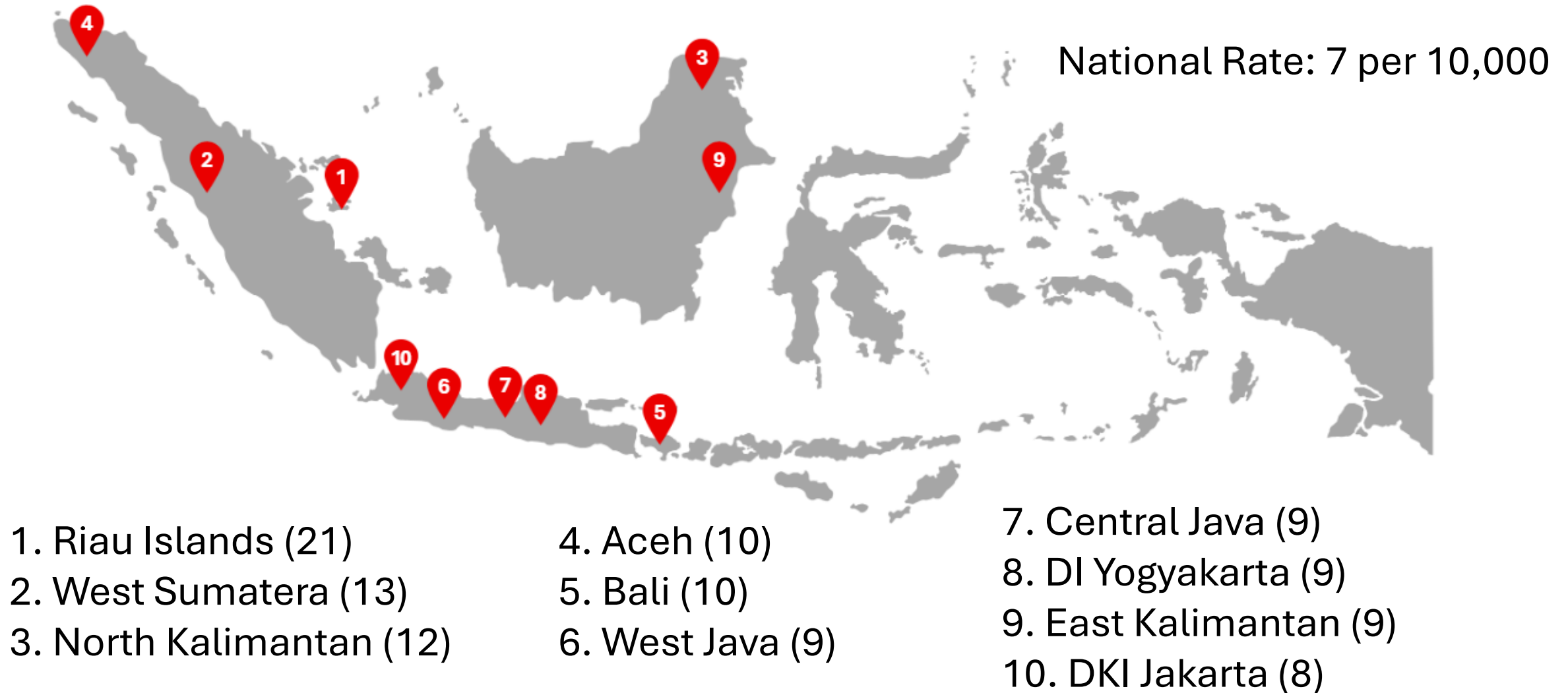


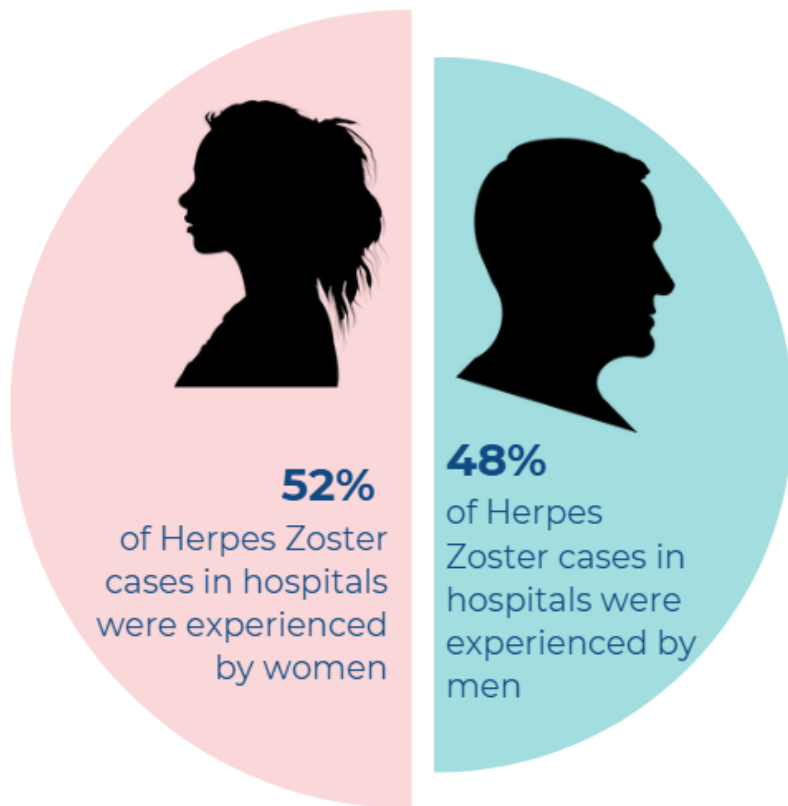
1. DI Yogyakarta (60)
2. Bali (40)
3. Central Java (39)

4. South Sumatera (38)
5. Banten (35)
6. East Java (34)

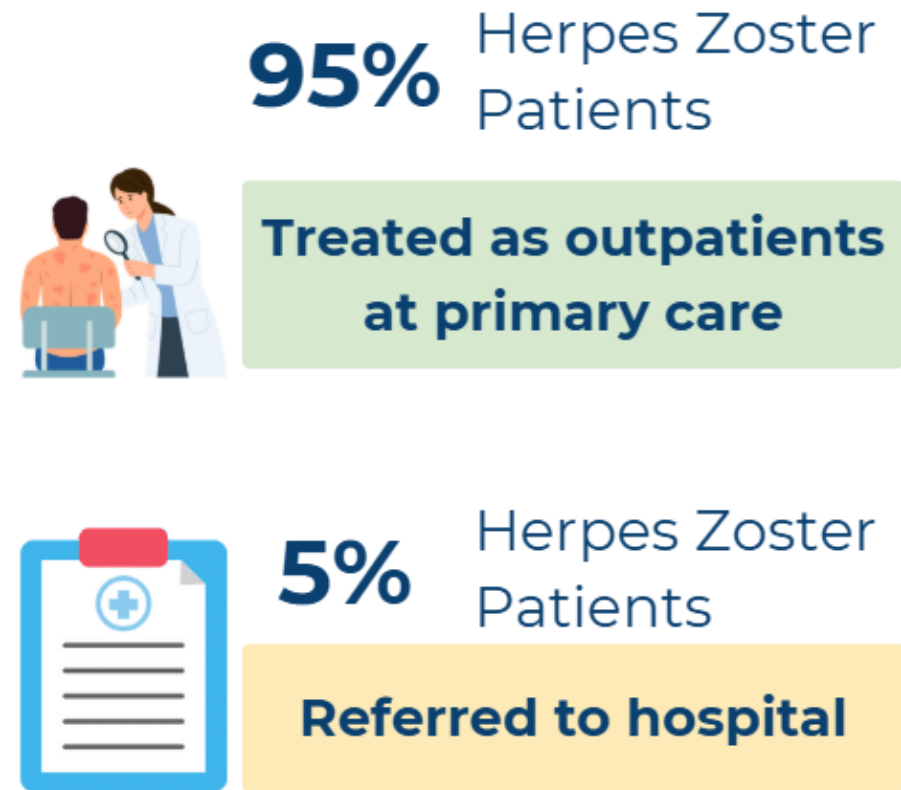
7. West Sumatera (33)
8. Gorontalo (32)
9. Riau (31)
10. DKI Jakarta (31)

Top 10 Provinces with the Highest Herpes Zoster Case Rates (per 10,000 JKN Members) in Hospitals, 2015–2022



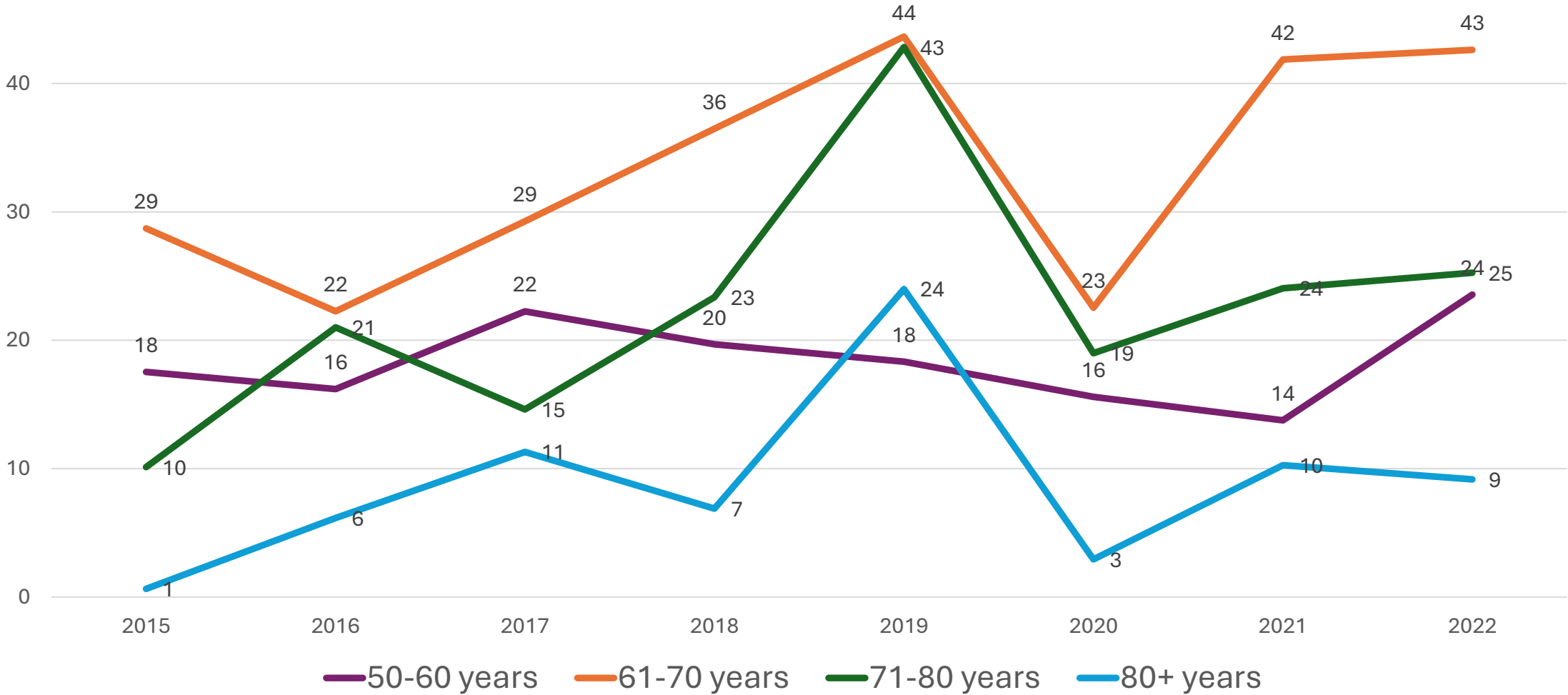


Proportion of Herpes Zoster Cases in Indonesia by Gender (Hospital Setting, 2015-2022)

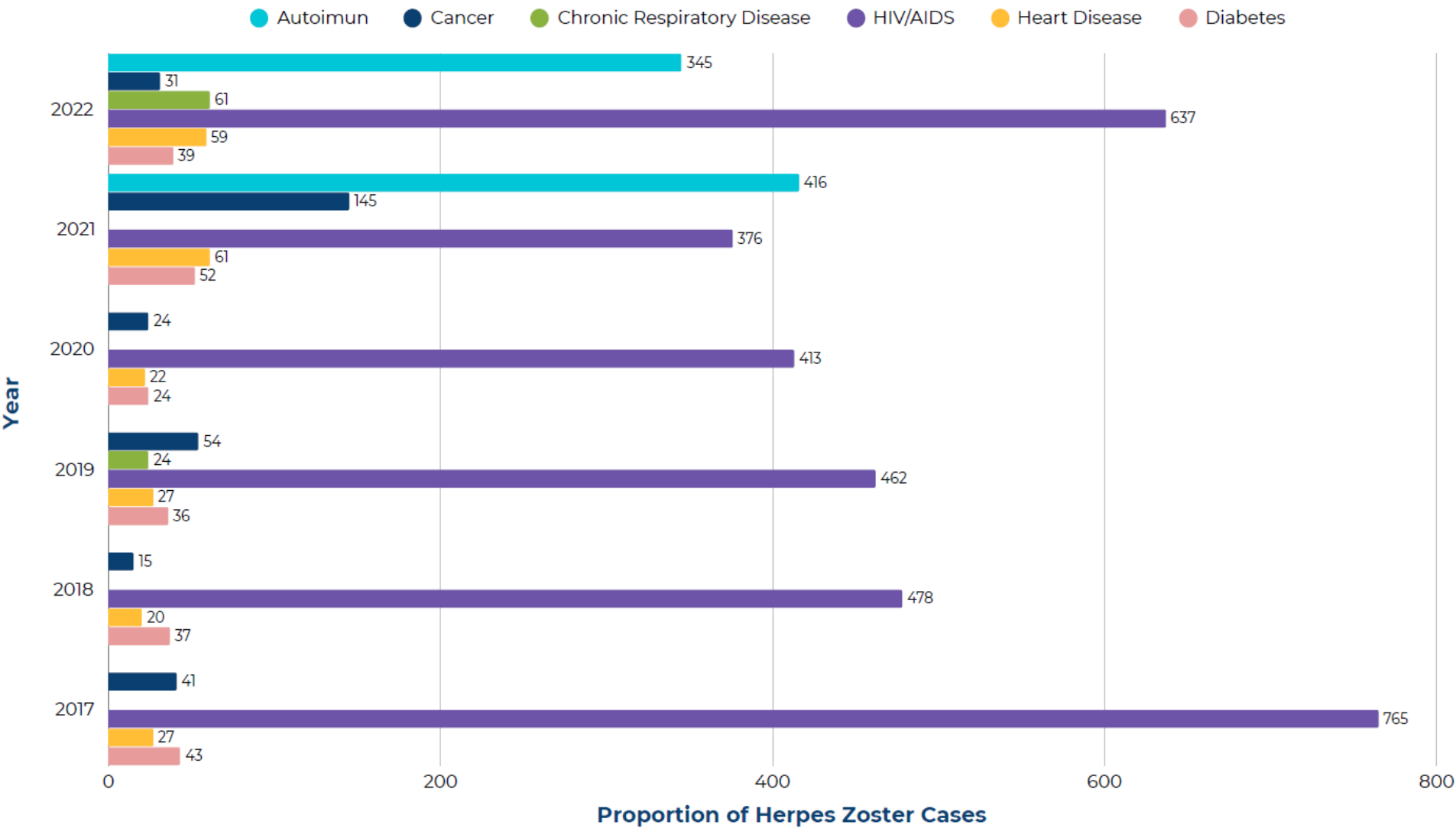


Proportion of Herpes Zoster Patients Discharged after Treatment (PHC Setting, 2015-2022)

Trend of Herpes Zoster Rate by Age Group in 2015–2022
(per 100,000 JKN Members)



Distribution of Herpes Zoster Cases by Chronic Disease Group, 2017–2022 (per 10,000 JKN Members)



Total Cost of Herpes Zoster Claims at Hospital (2015–2022) in Billion



Hospitalization: IDR 2–10 million per person (USD 123.12 – 615.61)

Outpatient: IDR 100 thousand – 3 million per person (USD 6.16 – 184.68)

Discussion

- **Regional variation:** Higher HZ rates seen in regions with large adult populations may reflect demographic patterns and healthcare access.
- **Chronic disease:** High risk HZ in patient with chronic disease (HIV, Autoimmune, and cancer).
- **Age groups:**
 - **61–70 years:** Highest HZ rates due to age-related immune decline.
 - **50–60 years:** Significant cases suggest early prevention is important.
- **Economic Impact:** Claim costs show a substantial burden. Vaccination may reduce future burden.

Conclusion

1. Herpes Zoster may reactivate and threaten the quality of life in the elderly and high-risk groups, such as HIV, Autoimmune or cancer patients.
2. Although the **vaccine is available** in Indonesia, it remains unaffordable for most people.
3. The government has not prioritized it for public funding due to other health priorities that have higher impact for most people.

Recommendation

- **Healthcare professionals and/or professional medical associations:**
 - Public awareness, educating populations at risks, and training fellow healthcare providers on Herpes Zoster prevention and management.
- **Ministry of Health:**
 - Gradually and selectively start funding vaccination for highest risk elderly and patient with high risk.
 - Establish a national surveillance system for Herpes Zoster to address current data gaps and strengthen evidence-based policy-making.
 - Develop public-private partnerships to support vaccine availability and distribution for high-risk groups.

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THANK YOU

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