

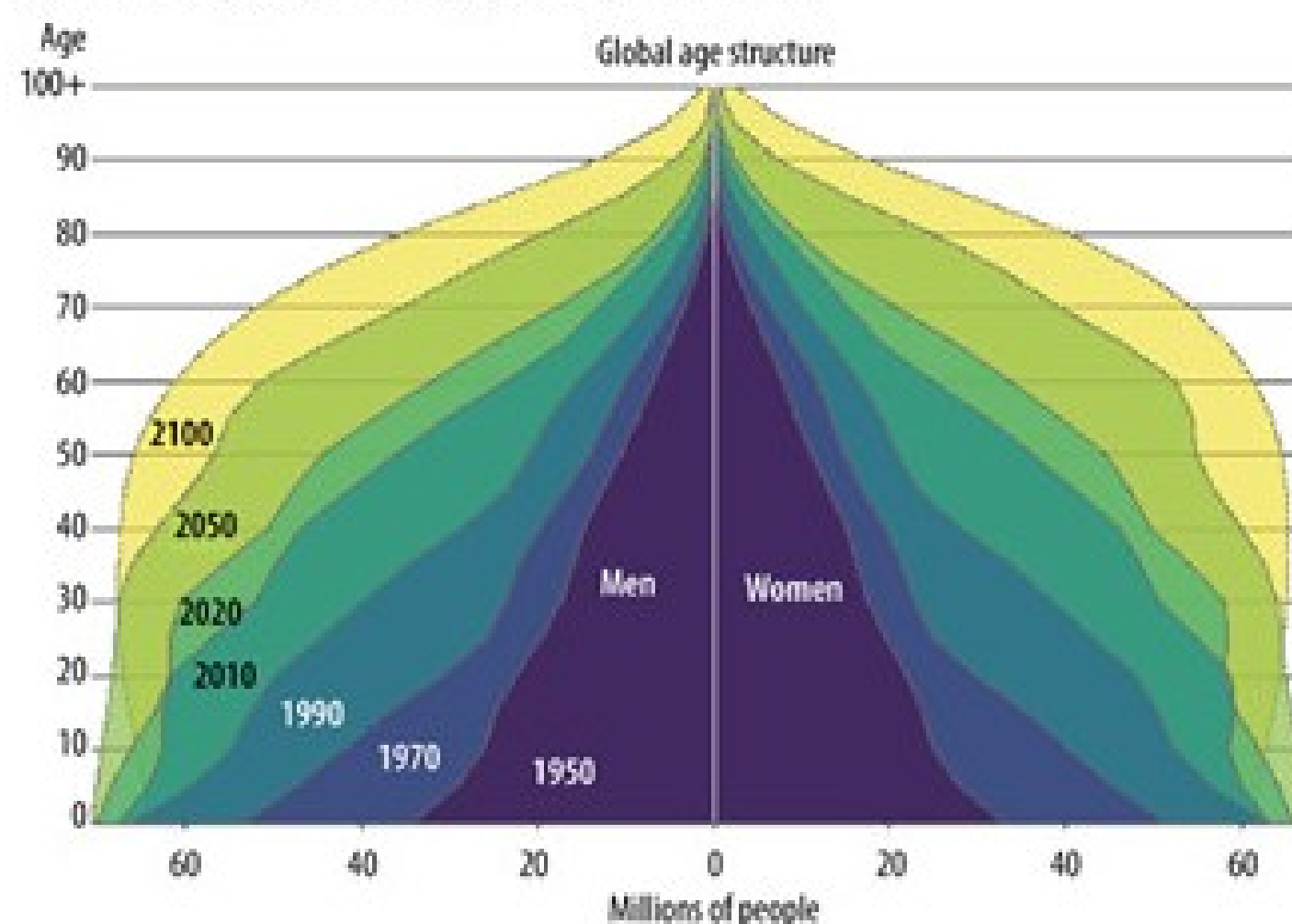
Introduction

- Increase in the global ageing population^{1,2}.

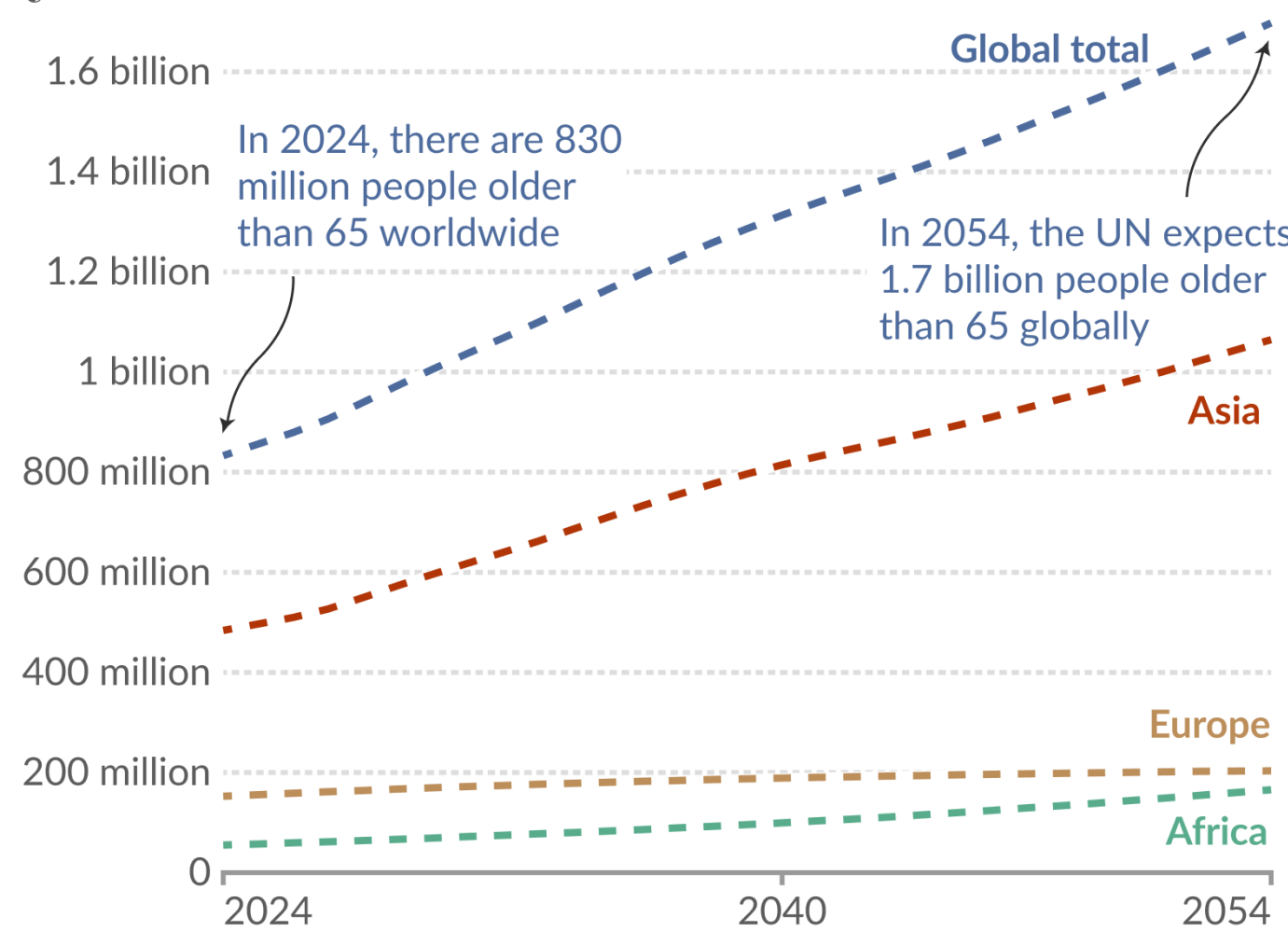
Aging into the future

The huge global increase in the number of people over 65 has big implications for the quality of aging and public policy.

(distribution and projection of world population by sex, 1950–2100)



Projected number of people aged 65 years and older



Data source: UN, World Population Prospects (2024). Note: Projections from 2024 onwards are based on the UN's medium scenario. OurWorldinData.org/population-growth | CC BY.

- Limited research into frailty of the eye and the visual system, i.e. 'Visual Frailty'

Aim

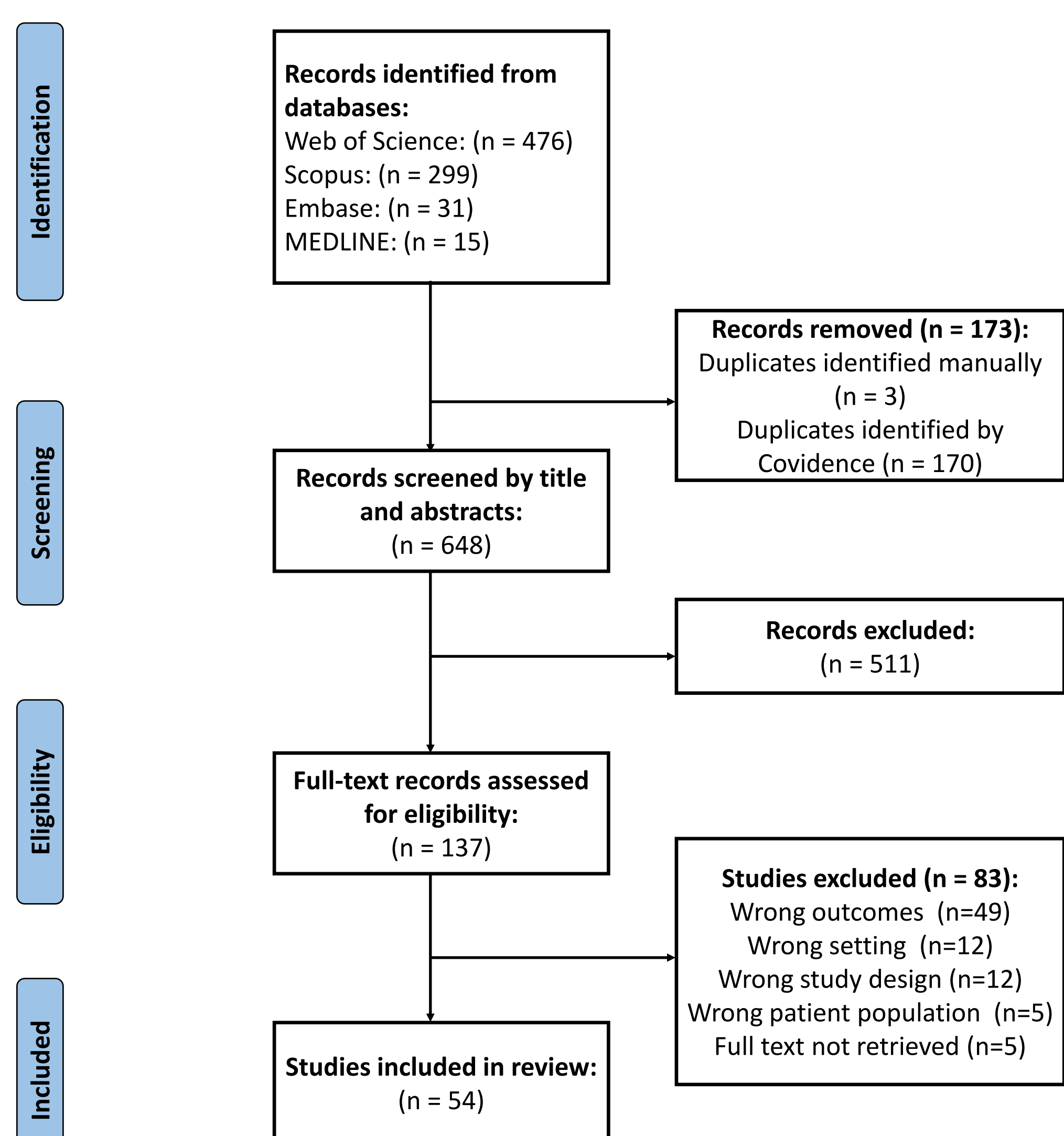
To propose a definition of visual frailty and assessment tool(s)

Methodology

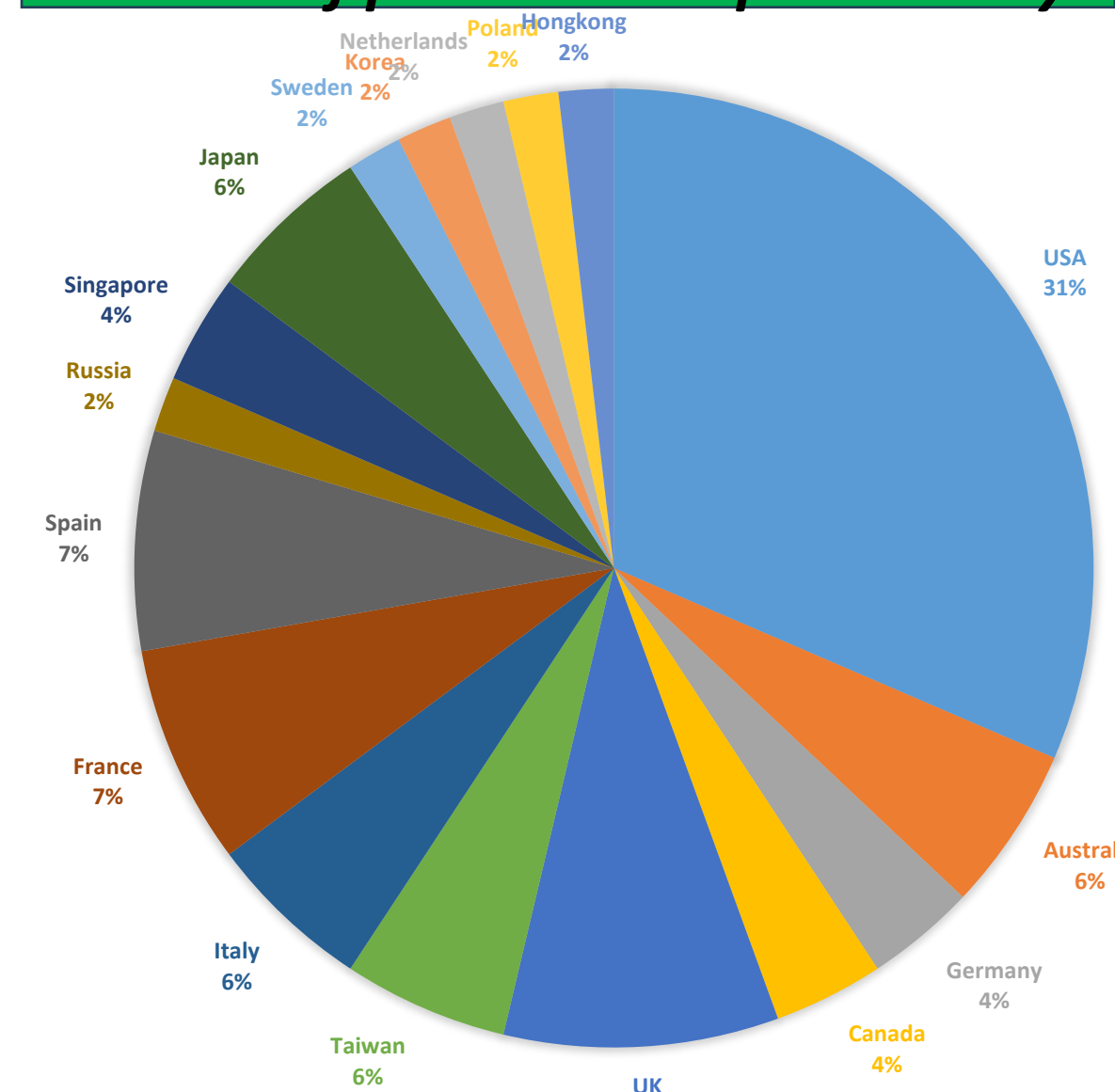
- **PCC Framework³ (Participants: 40 year and above, Concept: Visual Frailty, Context: High Income Countries)**
- Five databases: Medline, Embase, Scopus, Web of Science & Cochrane Library
- Published in English, French, Japanese, and Spanish from Jan. 1990 to Feb. 2024

Results

PRISMA flowchart for the scoping review



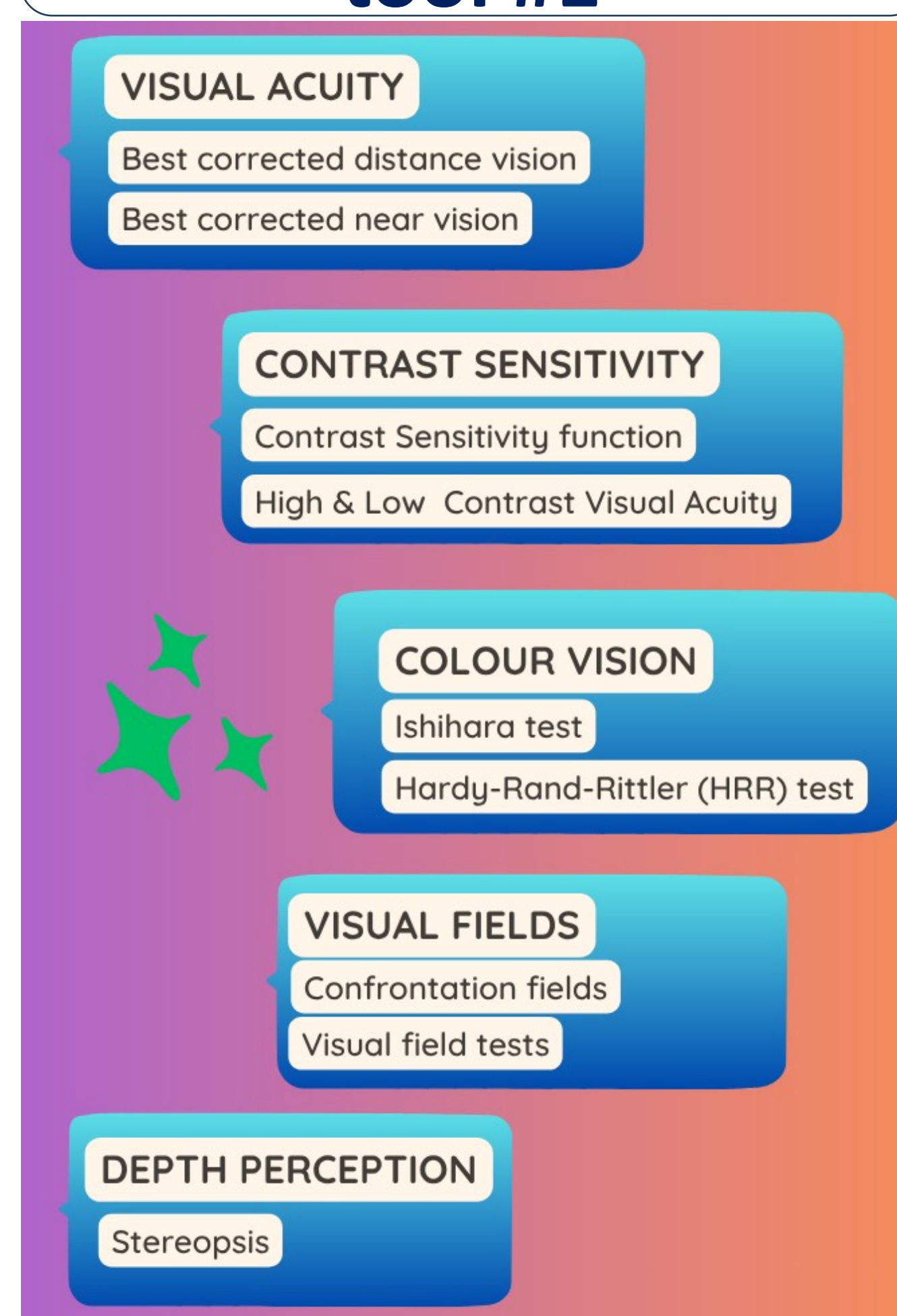
Number of publications per country



Definition: Only 1 study attempted to define a similar concept – Eye frailty^{4,5}.

Proposed definition of visual frailty: A multifactorial condition that presents with reduction in visual function which can have wide range of impacts on an individual's functional status depending on its severity.

Proposed assessment tool #1



Proposed assessment tool #2



Conclusion

- Possibility for a nuanced approach towards the management of frailty in relation to the visual system
- Foundation for future visual frailty research
- Proposed tools to be piloted and validated

References

1. WHO. Ageing and health 2024 [cited 2025 March 24]. Available from: <https://www.who.int/news-room/fact-sheets/detail/ageing-and-health>.
2. UN. World Population Ageing. 2019.
3. Peters MDJ, Marnie C, Tricco AC, Pollock D, Munn Z, Alexander L, et al. Updated methodological guidance for the conduct of scoping reviews. JBI Evid Synth. 2020;18(10):2119-26.
4. Itokazu M, Ishizaka M, Uchikawa Y, Takahashi Y, Niida T, Hirose T, et al. Relationship between Eye Frailty and Physical, Social, and Psychological/Cognitive Weaknesses among Community-Dwelling Older Adults in Japan. International Journal of Environmental Research and Public Health. 2022;19(20):13011.
5. Japan Ophthalmology Council Awareness. Japan Ophthalmology Awareness Council Eye Frailty Awareness Official Website [cited 2024 November 15]. Available from: <https://www.eye-frail.jp>.