

GLOBAL SURVEY REVEALS DEMAND FOR ADDITIONAL PHOTOPROTECTION EDUCATION IN AUSTRALIA¹

P. Guitera¹, T. Passeron², B. Dreno³, H.W. Lim⁴, D. Kerob⁵, J. Krutmann⁶, L. Dousset⁷, K. Khosrotehrani^{7,8}

1. Melanoma Institute Australia, The University of Sydney, Sydney Melanoma Diagnostic Centre, Royal Prince Alfred Hospital, Missenden Rd, Camperdown, NSW 2050, Australia. 2. Department of Dermatology, Côte d'Azur University, Nice University Hospital Center, Nice, France INSERM U1065, C3M, Côte d'Azur University, Nice, France. 3. Department of Dermato-Oncology, CIC 1413, CRCINA, Nantes University Hospital Center, Nantes, France. 4. Department of Dermatology, Henry Ford Health System, Detroit, MI, USA. 5. La Roche-Posay Laboratoire Dermatologique, Levallois-Perret, France. 6. IUF Leibniz Research Institute for Environmental Medicine, Dusseldorf, Germany Medical Faculty, Heinrich-Heine-University, Dusseldorf, Germany. 7. Experimental Dermatology Group, Faculty of Medicine, University of Queensland Frazer Institute, Brisbane, Australia. 8. Department of Dermatology, Princess Alexandra Hospital, Brisbane, Queensland, Australia.

INTRODUCTION

Skin cancer rates

Skin cancer is one of the most common types of cancers diagnosed, and rates have been increasing rapidly over the last decade.² Australia experiences some of the highest rates of skin cancer worldwide, with 2 in 3 Australians developing skin cancer before the age of 70.³

Sun exposure

Skin cancer prevalence is directly correlated with sun exposure.⁴ UV rays present in sunlight can penetrate the skin and result in DNA damage. Australia ranks second worldwide for the highest ultraviolet radiation.⁵

Photoprotection education

Despite being highly preventable, skin cancer prevalence continues to be a major burden on the healthcare system.³ Lack of photoprotection education underpins this widespread prevalence and improvement to education practices is crucial to changing behaviours and attitudes towards photoprotection.⁶

AIM

This survey investigates knowledge and behaviours regarding sun exposure in Australia.

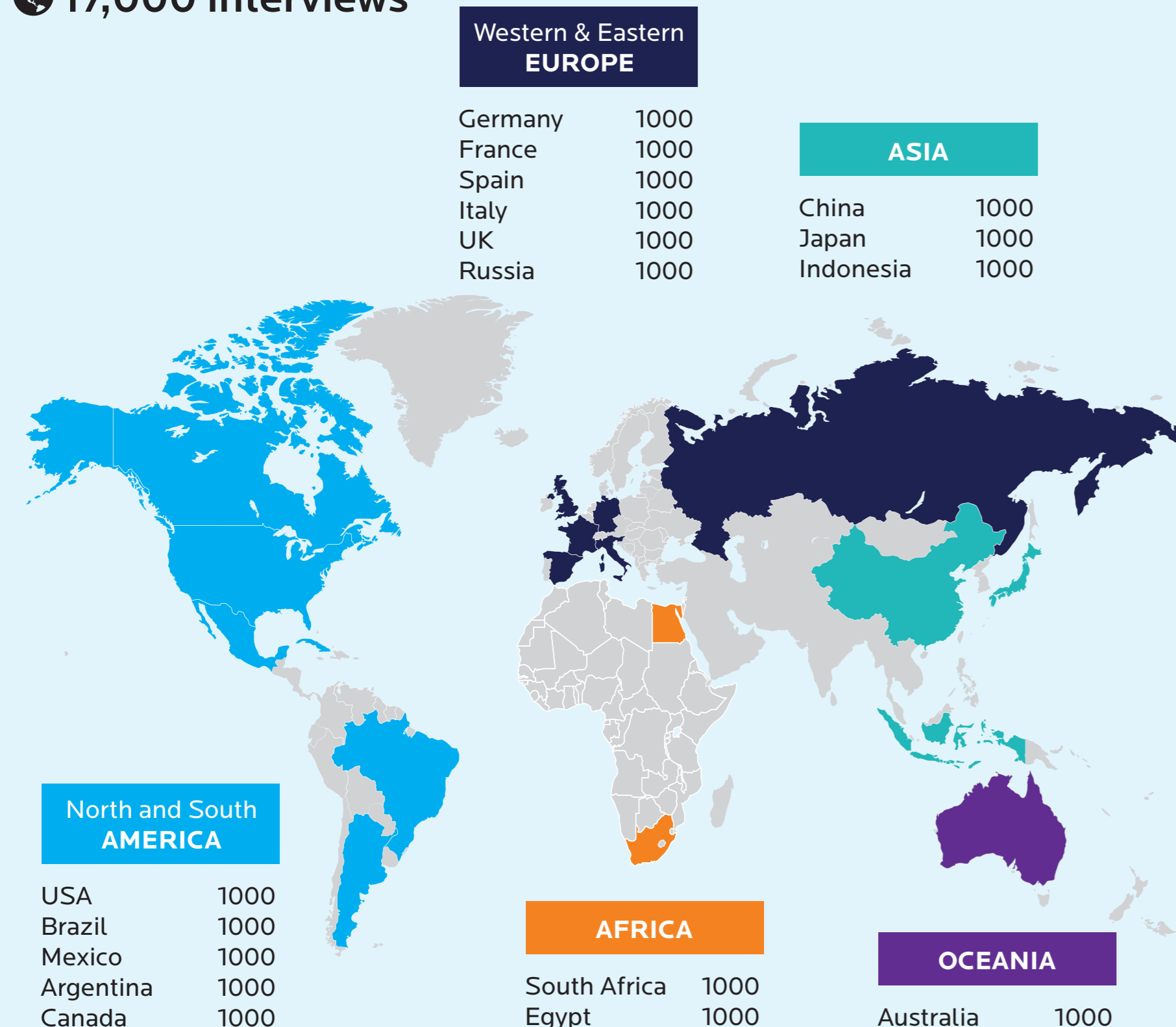
METHODS

Individuals surveyed

Survey conducted in 17 countries among representative samples of the population aged between 18-75 years in each country.

TARGET: GENERAL POPULATION
A SURVEY CONDUCTED IN 17 COUNTRIES

17,000 interviews



Coverage:

USA, Brazil, Mexico, Argentina, Canada, Germany, France, Spain, Italy, UK, Russia, South Africa, Egypt, China, Japan, Indonesia, Australia.

Methodology

Online interviews were conducted via Ipsos Access Panel. The quota method was applied to gender, age, occupation, region and market size to ensure equal distribution of subjects surveyed.

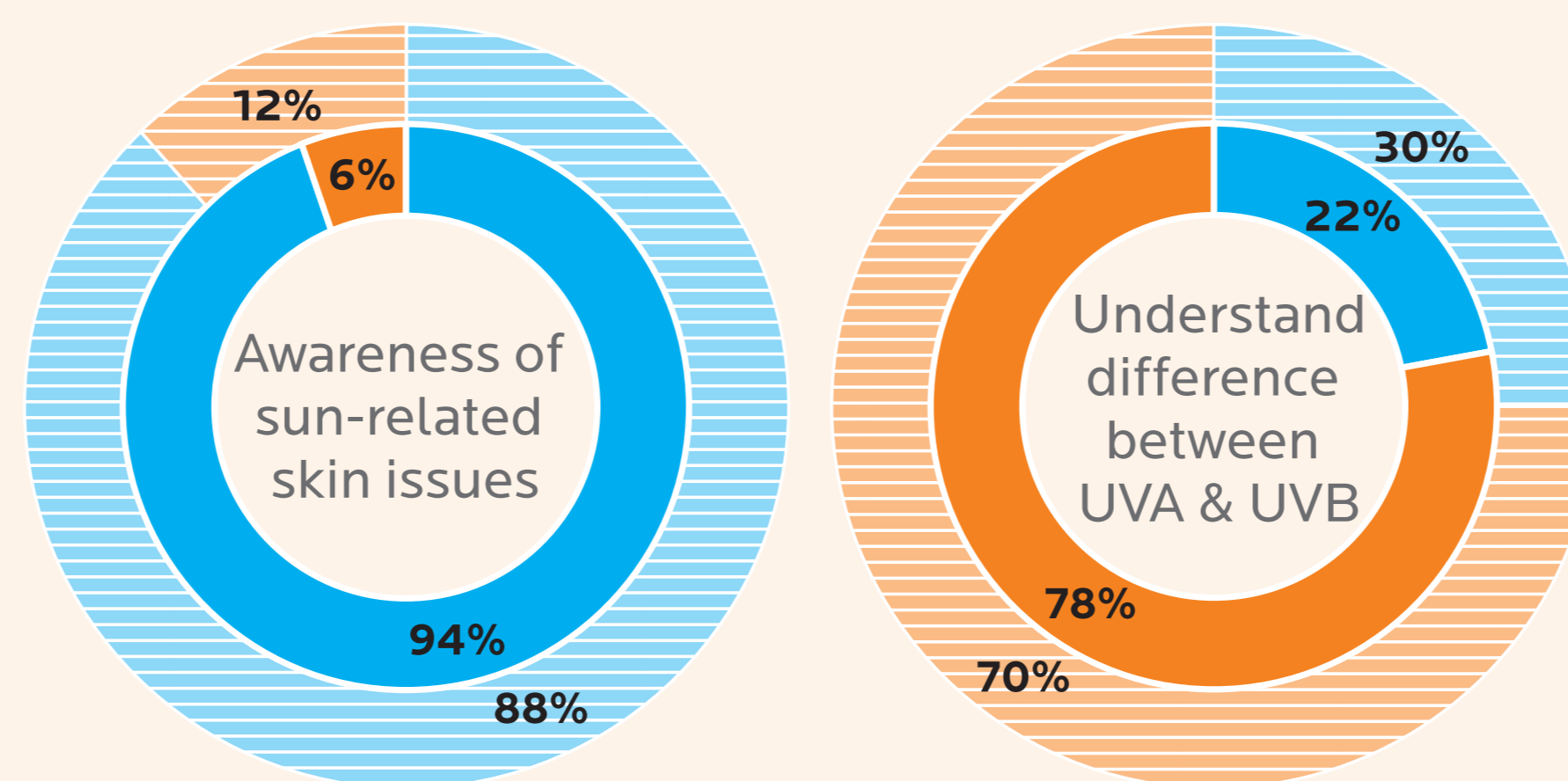
Data collection

The survey ran between September 28 & October 18, 2021. Data was then compiled and analysed by the Ipsos team.

RESULTS

Awareness of sun-related skin issues

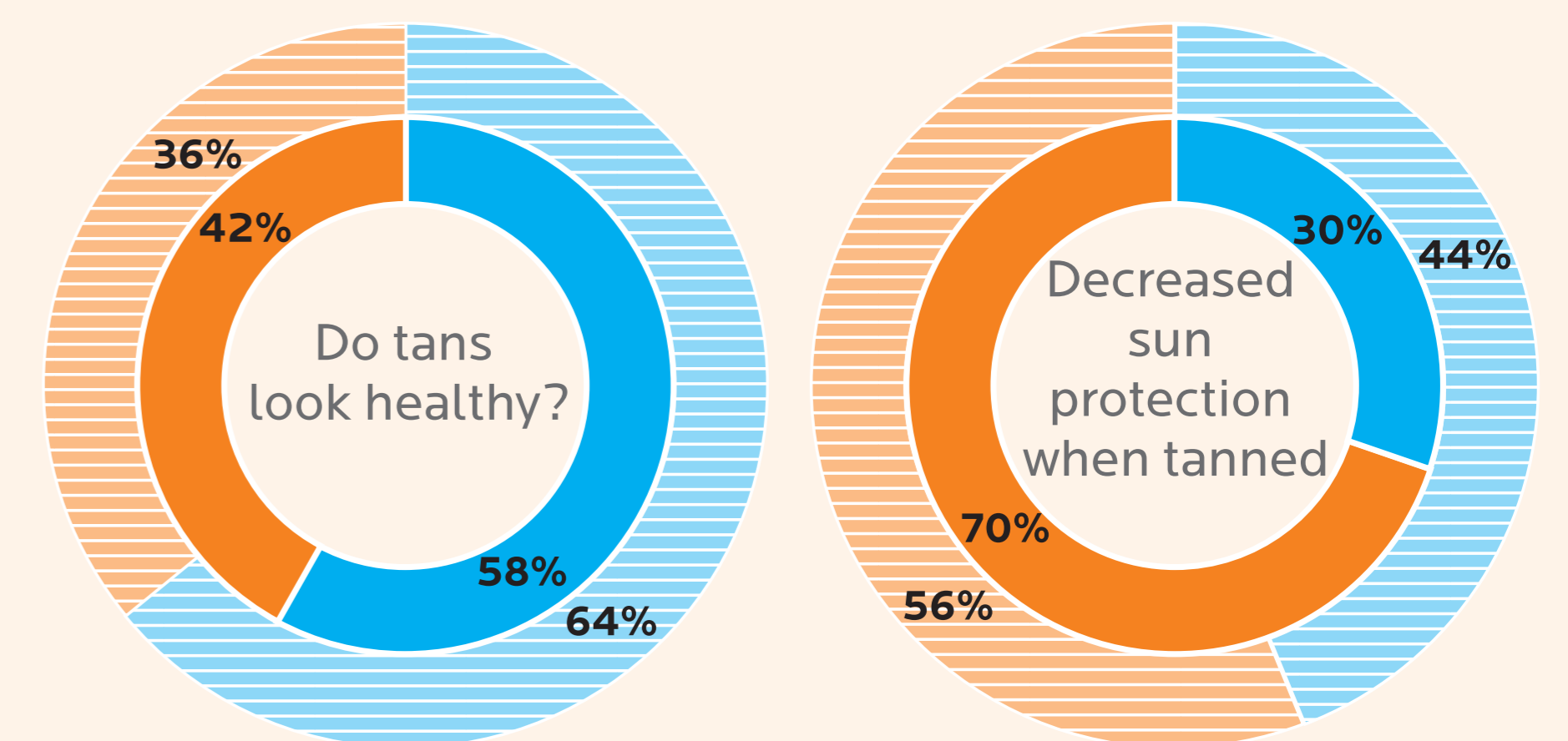
- On average, more Australians appear to be aware of sun-related skin issues, compared to the rest of the world.
- However, fewer Australians (22%) understand the difference between UVA and UVB rays, relative to the other nationalities assessed (30%).



Yes No Australia Worldwide

Attitudes towards tans

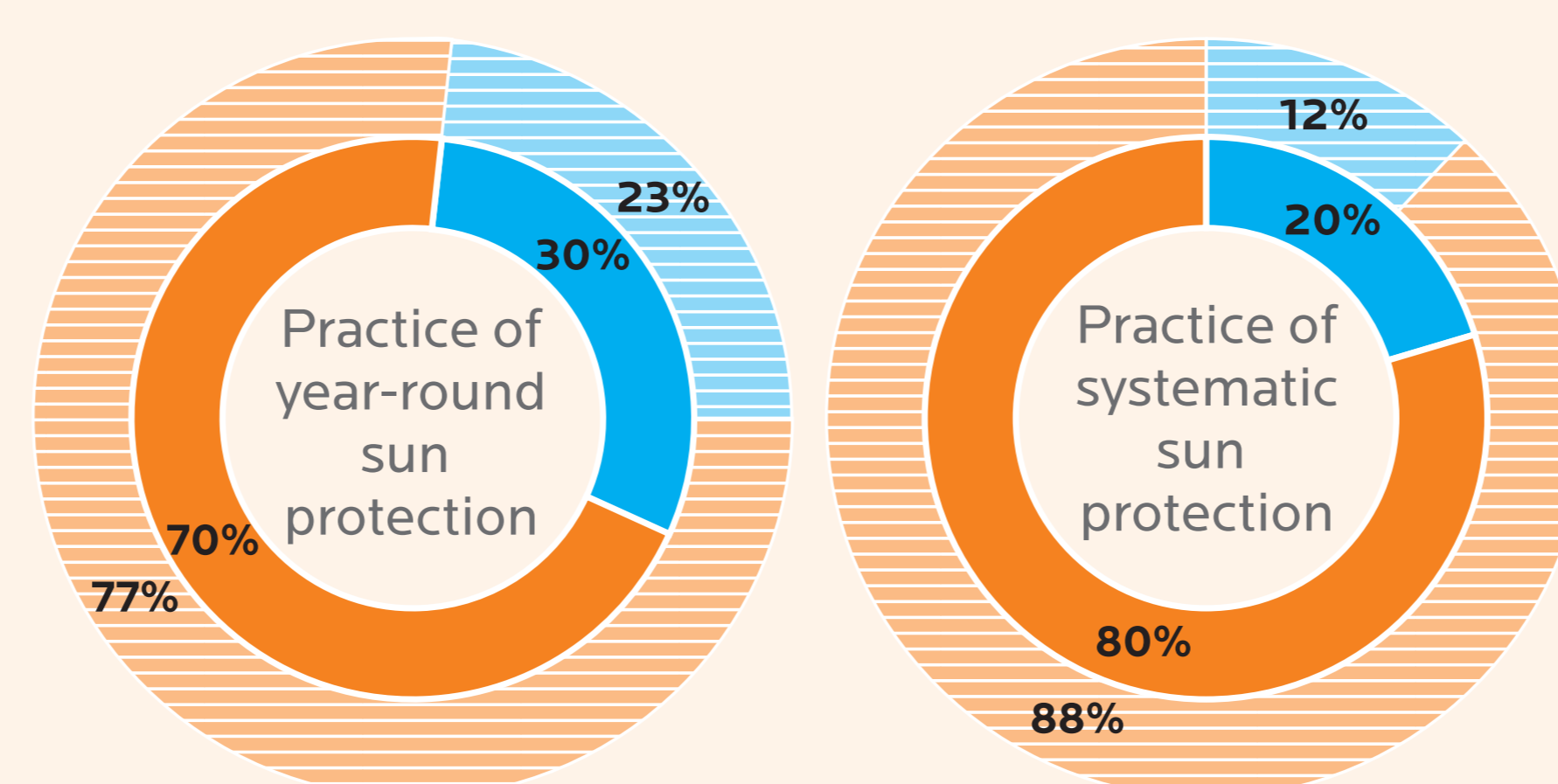
- Australians have distinct attitudes towards tans, compared to the other nationalities surveyed in this study.
- Fewer Australians believe a tan looks healthy compared to worldwide opinion. More of them maintain photoprotective behaviours when tanned and fewer believe that unprotected sun exposure when tanned is safe, relative to worldwide opinion.



Yes No Australia Worldwide

Sun protection behaviours

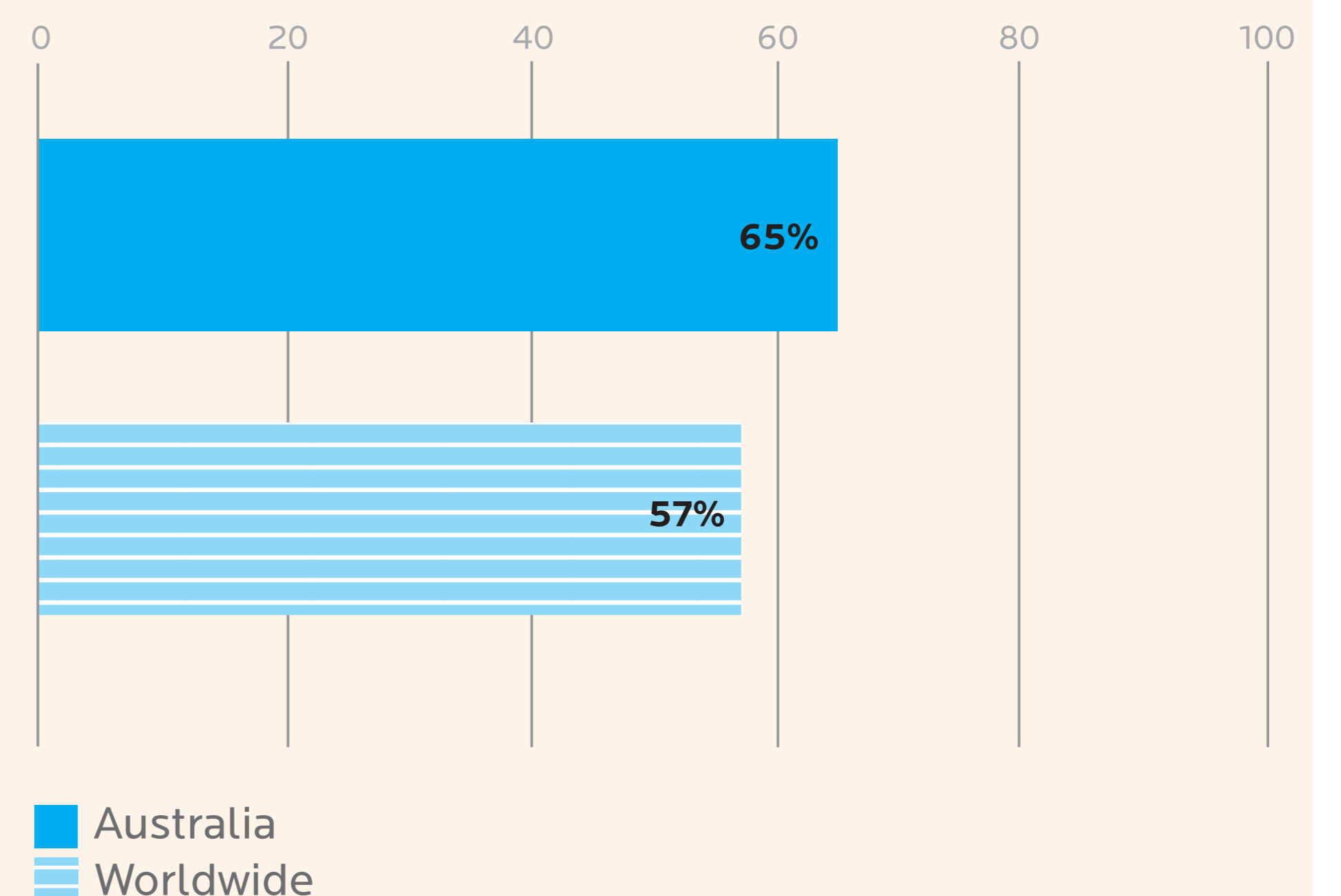
- On average, Australians are more likely to engage in photoprotective behaviours compared to the worldwide population, with more Australians practicing year-round sun protection, even on overcast days. More Australians practice systematic measures, such as using hats and sunglasses with UV filters.



Yes No Australia Worldwide

Regret over past practices

- More Australians expressed remorse over past practices, wishing they had maintained 'better practices' to protect themselves from the damage of sun exposure.



DISCUSSION & CONCLUSION

Discussion

- While more Australians are aware of sun-related skin issues, Australians are less likely to be aware of the specifics behind the damage sun exposure. This indicates a gap in systematic education about sun exposure among the Australian population.
- Although more Australians on average practice year-round, systematic sun protection relative to the rest of the surveyed worldwide population, more Australians expressed regret over past practices. This suggests a lack in early education regarding sun exposure and photoprotective practices.

Conclusion

- In conclusion, the results of this survey show that while Australians perform better in terms of photoprotective behaviours, there is a need to improve photoprotection education, and optimise timing of education to occur in early life to prevent sun damage and consequent regret over past practices.

ACKNOWLEDGEMENTS

This study would like to acknowledge the following individuals for their assistance and contribution to this study: S. Puig, C.L. Goh, F. Ly, H.Y. Kang, A. Morita J. Ocampo Candiani, S. Schalka, L. Wei, C. Le Floc'h, A.L. Demessant.

REFERENCES

- Passeron T, Lim HW, Goh CL, Kang HY, Ly F, Morita A, et al. Sun exposure behaviours as a compromise to paradoxical injunctions: Insight from a worldwide survey. *J Eur Acad Dermatol Venereol.* 2023; 37: 2481-2489.
- Arnold M, Singh D, Laversanne M, Vignat J, Vaccarella S, Meheus F, Cust AE, de Vries E, Whiteman DC, Bray F. Global Burden of Cutaneous Melanoma in 2020 and Projections to 2040. *JAMA Dermatol.* 2022 May 1;158(5):495-503.
- Olsen CM, Pandeya N, Green AC, Ragaini BS, Venn AJ, Whiteman DC. Keratinocyte cancer incidence in Australia: a review of population-based incidence trends and estimates of lifetime risk. *Public Health Res Pract.* 2022 Mar 10;32(1):3212203.
- Olsen CM, Wilson LF, Green AC, Bain CJ, Fritschi L, Neale RE, Whiteman DC. Cancers in Australia attributable to exposure to solar ultraviolet radiation and prevented by regular sunscreen use. *Aust NZ J Public Health.* 2015 Oct;39(5):471-6.
- Gies P, Roy C, Javorniczky J, Henderson S, Lemus-Deschamps L, Driscoll C. Global Solar UV Index: Australian measurements, forecasts and comparison with the UK. *Photochem Photobiol.* 2004 Jan;79(1):32-9.
- Papier K, Gordon LG, Khosrotehrani K, Isbel N, Campbell S, Griffin A, Green AC. Increase in preventive behaviour by organ transplant recipients after sun protection information in a skin cancer surveillance clinic. *Br J Dermatol.* 2018 Nov;179(5):1195-1196.