

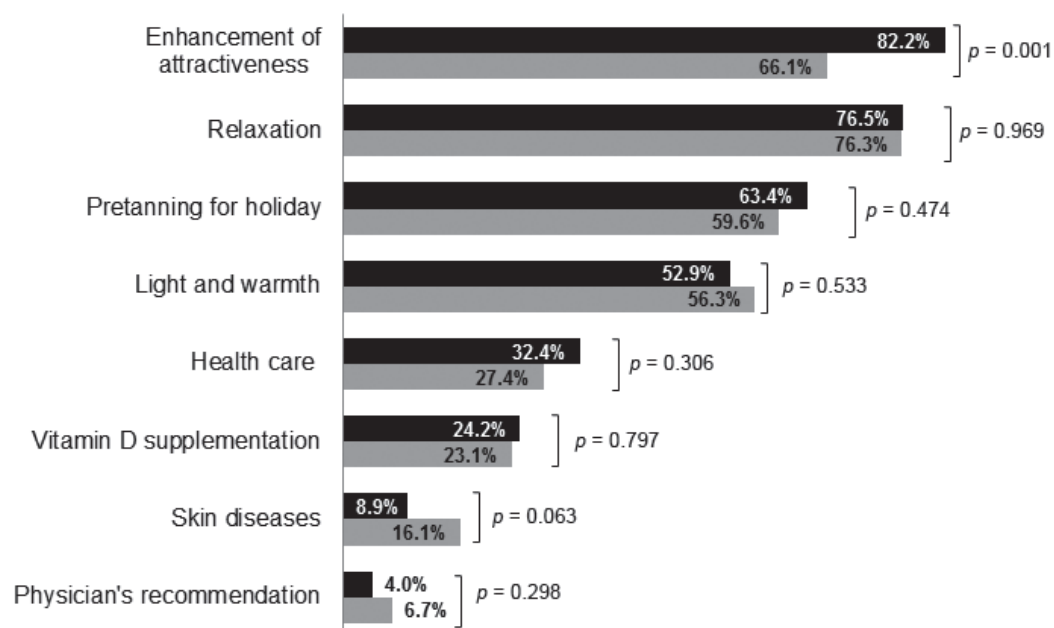


Fig. S1. Motives for sunbed use of users with affirmative responses to ≥ 2 (black) or < 2 (grey) mCAGE items.

Appendix S1.

Four out of 15 participants answered that they had been criticised in the past for their sunbed use, but that they had not thought much of it and were certainly not annoyed by such comments. Three of these 4 people were thus unsure if they should answer the question with yes or no. The fifth participant complained that the question implied that indoor tanning was objectionable. As this question was intended to be answered positively only if both conditions were fulfilled – a person had been criticised and felt annoyed by the criticism – the item was subsequently divided into 2 questions in the nationwide survey: ("Have people ever criticised your indoor tanning habits?", if yes: "Have you been annoyed by that criticism?").

Table SI. Original CAGE items as well as modified versions of the mCAGE items used in the literature

Study	Item 1 (Cut down)	Item 2 (Annoyed)	Item 3 (Guilty)	Item 4 (Eye-opener)
CAGE (Original) Mayfield et al. (23)	Have you ever felt you should cut down on your drinking?	Have people annoyed you by criticising your drinking?	Have you ever felt bad or guilty about your drinking?	Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hang-over?
mCAGE (Current study) Schneider et al. (2014)	Have you ever felt you should cut down on your indoor tanning?	Have people ever annoyed you by criticising your indoor tanning? ^a	Have you ever felt bad or guilty about your indoor tanning?	Have you ever thought about indoor tanning first thing in the morning?
mCAGE (Former studies) Poorsattar et al. (7)	Have you ever felt you ought to cut down on your tanning?	Have people annoyed you by criticising your tanning?	Have you ever felt bad or guilty about your tanning?	Have you ever thought about tanning first thing in the morning?
Heckman et al. (5)	Do you try to cut down on the time you spend in the sun, but find yourself still suntanning?	Do you ever get annoyed when people tell you not to sun tan?	Do you ever feel guilty that you are in the sun too much?	When you wake up in the morning do you want to sun tan?
Harrington et al. (4)	Have you tried to stop tanning, but still continue?	Do you ever get annoyed when people tell you not to tan?	Do you ever feel guilty that you tan too much?	When you wake up in the morning, do you want to tan?
Mosher et al. (6)	Do you try to cut down on the time you spend in tanning beds or booths, but find yourself still tanning?	Do you ever get annoyed when people tell you not to use tanning beds or booths?	Do you ever feel guilty that you are using tanning beds or booths too much?	When you wake up in the morning, do you want to use a tanning bed or booth?
Gendle et al. (3)	Do you try to cut down on the time you spend tanning, but find yourself still tanning?	Do you ever get annoyed when people tell you not to tan as much?	Do you ever feel guilty that you are tanning too much?	When you wake up in the morning do you want to tan?
von Gunten (8)	omitted	Do you ever get irritated when people tell you not to indoor tan?	Do you feel guilty after you indoor tan?	Do you ever feel the need to go indoor tan right after waking up?
Cartmel et al. (2)b	Have you ever tried to stop tanning, but still continued?	Do you ever been annoyed by people telling you not to tan?	Have you ever felt guilty that you tanned too much?	On waking up in the morning, have you ever wanted to go tan?

^aVersion for the cognitive interviews. ^bThe wording used here was communicated per email to the authors by Brenda Cartmel in October 15th, 2013.