

# TRENDS IN KNOWLEDGE, ATTITUDE AND BEHAVIOR ABOUT SUN-PROTECTION IN 15-75 AGED FRENCH PEOPLE: BAROMÈTRE CANCER, 2005-2010-2015 SUN-HEALTH KNOWLEDGES

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### INTRODUCTION



### CONTEXT:

Ultraviolet radiations (UV) diseases increase in France
Incidence of skin melanoma: ≈11,200 new cases in 2010 → ≈15,500 in 2018 [Defossez G et al, 2019]

The excessive exposure to UV (both natural and artificial) is the most preventable risk factor of skin cancers

In 2015, 83% of skin melanoma were attributable to solar UV in France

[Arnold M et al, 2018]

**AIM OF THIS STUDY:** Describe the cancer-related knowledges, attitudes, beliefs and practices of French people with the 'Baromètre Cancer' study (including questions related to UV)

\$\infty\$ For this presentation, only the sun-health knowledges

## **MATERIALS and METHODS**The 'Baromètre Cancer' study



### **SAMPLING DESIGN AND DATA COLLECTION:**

- A two-stage random sampling survey (household then individual –French speaking person aged 15-85 years)
- Interviews conducted by telephone from May to October 2015
- 30.6% participation rate produced a sample of 3.931 persons aged > 75 years (with full interview)
- Exclusion: people with cancer history (n=3.613)

### **STATISTICAL ANALYSIS:** conducted with stata13

- To ensure the national representativeness of the sample, data were weighted by age, sex and educational level, geographic area, and size of town of residence, with a calibration procedure
- Uni~ and bi~variate analyses
- Confidence intervals and comparaison test (Chi-square): statistic used in surveys by random selection
- Logistical regression: data were weighted by age, sex and educational level

# **RESULTS – SUN HEALTH KNOWLEDGES** OPINIONS, IN 2015



'Sun causes the skin to age prematurely':



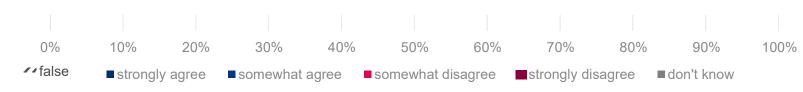
### ... since 2005?

7

ORa=0.5\*\*\* [0.4-0.7]

2010: 92.5 % ORa=0.6\*\*\* [0.5-0.8]

2005: 94.6 % (reference)

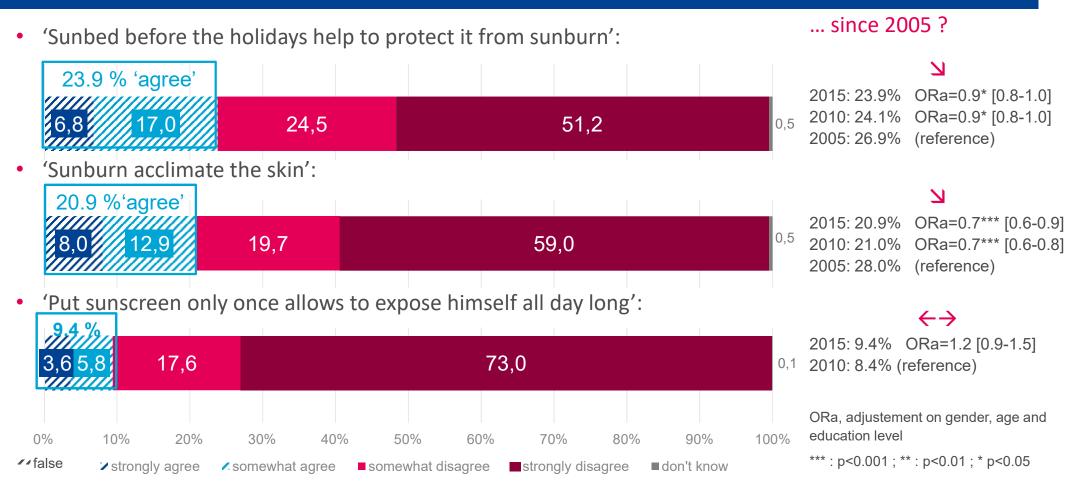


ORa, adjustement on gender, age and education level

\*\*\* : p<0.001 ; \*\* : p<0.01 ; \* p<0.05

## **RESULTS – SUN HEALTH KNOWLEDGES** OPINIONS, IN 2015





### DISCUSSION

### CONCLUSION



### THE STUDY:

- Low participation rate (30.6 %)
- Non-participants, probably less educated
- ⇒ overestimation?

Weighting data limited partially the impact

 No information on exposure practices (duration, motivation for tanned skin ...)

#### THE SUN HEALTH KNOWLEDGES:

- Measured by self-reported
- ⇒ overestimation (?) owing to social desirability bias
- Misconceptions persist or increase: standard prevention campaigns have so far failed

#### STRATEGIES TO PREVENT UV DISEASES:

Change the context or environment to support healthy choices than strategies focused on individual behavior

- Increase opportunities for sun protection in outdoor settings
- ⇒ increase shade outdoor
- Provide information to make informed, healthy choices
- ⇒ promote UV index, fight against misconceptions, effective messages and interventions for specific audiences, truth about suntan (**Tanned skin is not healthy skin**!)
- Policies that promote healthy behaviors
- ⇒ incorporate sun safety in school, into workplace and safety training
- Strengthen research, surveillance, monitoring, and evaluation related to UV diseases prevention

Source: The Surgeon General's Call to Action to Prevent Skin Cancer, 2014 NICE Guideline NG34, 2016



### THANK YOU FOR YOUR ATTENTION

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**Source:** Ménard C. Thuret A. Baromètre cancer 2015. [Ultraviolets, naturels ou artificiels: Connaissances, croyances et pratiques de la population en 2015.]

Saint-Maurice: Santé publique France. 2018. 46 p

http://inpes.santepubliquefrance.fr/CFESBases/catalogue/detaildoc.asp?numfiche=1857

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