Use Patterns of Leave-on Personal Care Products among Swiss-German Children, Adolescents, and Adults

Section S1. Questionnaires

Survey on the use of sunscreen in children and adolescents.

This questionnaire focuses on your child. If you have several children, this questionnaire is addressed to the child whose birthday is next and who is younger than 18 years of age. Please fill out the questionnaire for your child if they are under 14 years of age. If your son/daughter is between the ages of 14 and 17, they are allowed to fill out the questionnaire themselves, with your help if necessary.

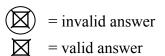
Please keep the following in mind:

- Your responses will be kept completely confidential and anonymous and will be stored by the ETH Zürich (Consumer Behavior group).
- The statistical evaluation will not allow any inference about individuals. We are interested in the attitudes and habits of the Swiss population.
- Responses will be used for scientific non-commercial research and teaching.
- Completing the survey will take around 30 min.

Your questionnaire will be read by an electronic scanning device. Therefore it is very important that you adhere to the following guidelines:

- Please use a black/blue pen (no pencil).
- Please make the cross to fit the size of the box provided.
- Please do not skip any questions and check only one box per question (unless otherwise indicated).
- If you make a mistake, please make a circle around the box and re-enter the correct information.

By doing this you can, if needed, circle more invalid answers:



Please return the completed questionnaire in the enclosed pre-paid envelope by 15 February 2011 to:

ETH Zürich, Consumer Behavior (IED) Projekt Lebensmittel, CHN (PF 23) Universitätstrasse 22 CH-8092 Zürich.

Thank you very much for filling out the survey!

Filling out the Questionnaire for Children and Adolescents

The questionnaire should be filled out by the person, who knows best, how often your child used sunscreen in the past year. Adolescents between 14 and 17 years of age are allowed to fill out the questionnaire themselves.

| Please i | ndicate | who is filling out the questionnaire. |
|----------|-----------------------|---|
| | Mother | : |
| | Father | |
| | Adoles | cent aged between 14 and 17 years of age |
| | Other: | |
| | sunscree ou used s | n sunscreen on your child at least once during the past year (for adolescents: on |
| | Yes | (please proceed to question 2) |
| | No | (please proceed to question 4) |

Frequency of Sunscreen Application

2. In this question we want to find out how often you used sunscreen on your child (for adolescents: on yourself) in the past year.

Please indicate **on how many days** (2.1.) and **how frequently** (2.2.) you applied sunscreen to the grey highlighted body areas:

| Body area | Summer and autumn | Winter and spring | | |
|----------------------------|---------------------------------|---------------------------------|--|--|
| | (May to October) | (November to April) | | |
| (A) whole-body application | 2.1. a total ofdays | 2.1. a total ofdays | | |
| | 2.2. on average on one such day | 2.2. on average on one such day | | |
| | 1 time per day | 1 time per day | | |
| <i>]</i> /\\ | 2 times per day | 2 times per day | | |
| | 3 times per day | 3 times per day | | |
| | 4 or more times per day | 4 or more times per day | | |
| (B) only head+upper and/or | 2.1. a total ofdays | 2.1. a total ofdays | | |
| lower limbs | 2.2. on average on one such day | 2.2. on average on one such day | | |
| | 1 time per day | 1 time per day | | |
| 21 21 | 2 times per day | 2 times per day | | |
| | 3 times per day | 3 times per day | | |
| or | 4 or more times per day | 4 or more times per day | | |

| C) head-only | 2.2. on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day ssible the name and the brand (ender in protection factor (10, 15 etc.)) Sun protection factor e the name and the brand (e.g., Ninn factor (10, 15 etc.)) of the sunscreen | eg., of ast | | | | | |
|--|---|--|--|--|--|--|--|
| 1 time per day 2 times per day 2 times per day 3 times per day 3 times per day 4 or more times per day 4 or | ☐ 1 time per day ☐ 2 times per day ☐ 3 times per day ☐ 4 or more times per day ☐ ssible the name and the brand (end protection factor (10, 15 etc.)) Scents: on yourself) during the performance of the name and the brand (e.g., Night factor (10, 15 etc.)) of the sunscreens of the su | eg., of ast | | | | | |
| 2 times per day 3 times per day 3 times per day 3 times per day 3 times per day 4 or more times per day 4 or | 2 times per day 3 times per day 4 or more times per day ssible the name and the brand (en protection factor (10, 15 etc.)) scents: on yourself) during the per day Sun protection factor e the name and the brand (e.g., Ninn factor (10, 15 etc.)) of the sunscreen | of east | | | | | |
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| 4. In general, how often did you use the following products for your child (for adolescents: for | | | | | | | |
| 4. In general, how often did you use the following products for your child (for adolescents: for | | | | | | | |
| | | | | | | | |
| vourself) during the past year? | for your child (for adolescents: | for | | | | | |
| yourson, during the past year: | | | | | | | |
| | | | | | | | |
| 4 or 2–3 5–6 3–4 1–2 1–3 | 1–2 1–3 | | | | | | |
| more times times Once times per times per times per times per | per times per times per | | | | | | |
| per day per day week week month Rarely/Never | week month Rarely/No | ver | | | | | |
| 4.1. Face cream | | | | | | | |
| 4.2. Body lotion | | | | | | | |
| 4.3. After Shave | | | | | | | |
| 4 or 2–3 | <u> </u> | per times per times per week month Rarely/Ne | | | | | |

| Int. J. Environ. Re | s. Public He | alth 201 3 | 3 , 10 | | | | | 4 |
|--|-------------------------|-------------------|---------------|--------------------|--------------------|--------------------|---------------------|--------------|
| 4.4. Hand cream | 4 or more times per day | 2–3 times per day | Once per day | 5–6 times per week | 3–4 times per week | 1–2 times per week | 1–3 times per month | Rarely/Never |
| 4.5. Make-up (foundation) | | | | | | | | |
| 4.6. Lip care | | | | | | | | |
| 4.7. Lipstick | | | | | | | | |
| 5. Please indicate for each product category as specifically and in as much detail as possible the name and the brand of the most used product. Please specify for each product, whether you have used it more or less often than every second time. | | | | | | | | |
| Used more than every second time. Used less than every second time. | | | | | | • | | |
| 5.1. Face cream | | | | | | | | |

| | Used more than every | Used less than every |
|-------------------------------|----------------------|----------------------|
| | second time. | second time. |
| 5.1. Face cream | | |
| 5.2. Body lotion | | |
| 5.3. After Shave Balsam/Creme | | |
| 5.4. Hand cream | | |
| 5.5. Make-up (foundation) | | |
| 5.6. Lip care | | |
| 5.7. Lipstick | | |

Skin Type of the Child or Adolescent

6. Please indicate which of the following descriptions correspond best to the skin type of your child (for adolescents: of yourself). Skin type 1 is the most sensitive, skin type 6 is the least sensitive. Please check the box of only ONE skin type.

| | Celtic type (Skin type 1): |
|--|--|
| | Red or ginger-blond hair, |
| | very fair skin (possibly with freckles), |
| | burns immediately, never tans. |
| | Scandinavian type (Skin type 2): |
| | Blond or light brown hair, |
| | fair skin, |
| | burns easily, the skin tans slowly and with difficulties to brown. |
| | Mixed type (Skin type 3): |
| | Dark blond or brown hair, |
| | light brown skin, |
| | burns moderately, tans slowly to brown. |

| | Mediterranean type (Skin type 4): |
|--|---|
| | Dark brown hair, |
| | dark skin, |
| | burns rarely, the skin tans fast to moderately brown |
| | Dark brown and black types (Skin types 5 and 6): |
| | Black hair, |
| | very dark skin, |
| | almost never burns, the skin tans fast to dark brown. |

To Conclude, Please Answer a Few Questions about Your Child (for Adolescents: About Yourself).

| 7. What is the gender of the | fe | | male | | | |
|---|-------------|------------|---------------|------------|----------------------|----------------------|
| child/adolescent? | | | | | | |
| 8. Which year was the child/adolescent born in? | | | | | | |
| 9. What is the body weight of the child/adolescent in kilogram? | | kg | kg | | | |
| 10. What is the body height of the child/adolescent in cm? | | cn | n | | | |
| 11. How many children below the age | No o | | 1 child | 2 children | More than 2 children | |
| of 4 live in your household? | | | | | | |
| 12. How many children between 4 and | No children | 1 child | 2 children | 3 child | 4 children | More than 4 children |
| 20 years of age live in your household? | | | | | | |

13. Please indicate on how many days your child has been looked after by others (holidays with a third party care, day care *etc.*) (Days in the kindergarten or at school are not taken into account).

13a. Days in summer and autumn (May to October)

13b. Days in winter and spring (November to April)

Thank you very much for taking the time to fill out the survey!

Survey on the Use of Sunscreen in Adults

Please help us with the within-household random selection of the target respondent. This questionnaire is addressed to the household member whose birthday is next and who is 18 years of age or older.

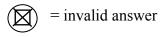
Thank you very much for taking the time to fill out the survey!

Please keep the following in mind:

- Your responses will be kept completely confidential and anonymous and will be stored by the ETH Zürich (Consumer Behavior group).
- The statistical evaluation will not allow any inference about individuals. We are interested in the attitudes and habits of the Swiss population.
- Responses will be used for scientific non-commercial research and teaching.
- You might have the impression that some questions are similar. This has been done on purpose to increase the accuracy of your answers. Please do not skip any questions.
- Completing the survey will take around 30 min.

Your questionnaire will be read by an electronic scanning device. Therefore it is very important that you adhere to the following guidelines:

- Please use a black/blue pen (no pencil).
- Please make the cross to fit the size of the box provided.
- Please do not skip any questions and check only one box per question (unless otherwise indicated).
- If you make a mistake, please make a circle around the box and re-enter the correct information. By doing this you can, if needed, circle more invalid answers:



 \boxtimes = valid answer

Please return the completed questionnaire in the enclosed pre-paid envelope by 15 February 2011 to:

ETH Zürich, Consumer Behavior (IED) Projekt Lebensmittel, CHN (PF 23) Universitätstrasse 22 CH-8092 Zürich.

Thank you very much for filling out the survey!

Use of Sunscreen

| 1. Have yo | ou used | sunscreen at least once during the past year? |
|------------|---------|---|
| | Yes | (please proceed to question 2) |
| | No | (please proceed to question 4) |

Frequency of Sunscreen Application

2. In this question we want to find out how often you used sunscreen in the past year.

Please indicate **on how many days** (2.1) and **how frequently** (2.2) you applied sunscreen to the grey highlighted body areas:

| Body area | Summer and autumn | Winter and spring | | |
|--|---|---|--|--|
| | (May to October) | (November to April) | | |
| (A) whole-body application | 2.1. a total ofdays 2.2. on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day | 2.1. a total ofdays 2.2. on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day | | |
| (B) only head+upper and/or lower limbs | 2.1 a total ofdays 2.2 on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day | 2.1 a total ofdays 2.2 on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day | | |
| (C) head-only | 2.1 a total ofdays 2.2 on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day | 2.1 a total ofdays 2.2 on average on one such day 1 time per day 2 times per day 3 times per day 4 or more times per day | | |

Name and Sun Protection Factor of the Sunscreens Used

3. Please indicate as specifically and in as much detail as possible the name and the brand (e.g., Nivea Sun Spray; Daylong ultra, Sun Lotion *etc.*) and the sun protection factor (10, 15 *etc.*) of the sunscreen you used most frequently during the past summer- and autumn-months.

| 3.1. In summer and autumn (May to October) | | | | | | | | |
|--|---|-----------|-----------|------------|---------------|--------------|--------------|--------------|
| Name | Name and brand of the sunscreen Sun protection factor | | | | | | | |
| Sun Spray; Daylo | Please indicate as specifically and in as much detail as possible the name and the brand (e.g., Nivea Sun Spray; Daylong ultra, Sun Lotion <i>etc.</i>) and the sun protection factor (10, 15 <i>etc.</i>) of the sunscreen you used most frequently during the past winter- and spring-months. | | | | | | | |
| 3.2. In winter and | 3.2. In winter and spring (November to April) | | | | | | | |
| Name | and brand o | f the sun | screen | | | Sun pro | tection fact | or |
| 3.3. In general, are | e you using a | a special | sun prote | ection for | the lips (e.g | g., stick or | balm)? | |
| Yes. V | Yes. Which one? | | | | | | | |
| Frequency of Use | Frequency of Use of Cosmetics And Toiletries | | | | | | | |
| 4. In general, how | 4. In general, how often did you use the following products during the past year? | | | | | | | |
| | 4 or | 2–3 | | 5–6 | | 1–2 | | |
| | more | times | Once | times | 3–4 | times | 1–3 | |
| | times | per | per | per | times | per | times per | |
| | per day | day | day | week | per week | week | month | Rarely/Never |
| 4.1. Face cream | | | | | | | | |
| 4.2. Body lotion | | | | | | | | |
| 4.3. After Shave Balsam/Creme | | | | | | | | |
| 4.4. Hand cream | | | | | | | | |
| 4.5. Make-up (foundation) | | | | | | | | |
| 4.6. Lip care | | | | | | | | |
| 4.7. Lipstick | | | | | | | | |
| 5. Please indicate and the brand of | | | | | | | | |

more or less often than every second time.

Used more than every second time.

Used less than every second time.

| | obed more than every | obed lebb than |
|------------------|----------------------|--------------------|
| | second time. | every second time. |
| 5.1. Face cream | | |
| 5.2. Body lotion | | |

7.2. In general, I pay attention to my inner feelings

regarding my health.

| | | , the second sec | | | | | | | |
|---------|-----------|--|--------------|-------------|-------|--------|----------|-----------|--|
| | 5.3. Aft | er Shave Balsam/Creme | | | | | | | |
| | 5.4. Hai | nd cream | | | | | | | |
| | 5.5. Ma | ke-up (foundation) | | | | | |] | |
| | 5.6. Lip | care | | | | | | | |
| | 5.7. Lip | ostick | | | | | |] | |
| | | | | | | | | <u> </u> | |
| You | ır Skin T | Гуре | | | | | | | |
| 6 P | lease inc | dicate which of the following descriptions cor | respond 1 | nest to voi | ır sk | zin tv | ne Skin | tyne 1 is | |
| | | asitive, skin type 6 is the least sensitive. Please | • | • | | • | - | • • | |
| | | Celtic type (Skin type 1): | | | | | | | |
| | | Red or ginger-blond hair, | | | | | | | |
| | | very fair skin (possibly with freckles), | | | | | | | |
| | | burns immediately, never tans. | | | | | | | |
| | | Scandinavian type (Skin type 2): | | | | | | | |
| | | Blond or light brown hair, | | | | | | | |
| | ГП | fair skin, | | | | | | | |
| | | burns easily, the skin tans slowly and with diffic | culties to b | orown. | | | | | |
| | | Mixed type (Skin type 3): | | | | | | | |
| | | Dark blond or brown hair, | | | | | | | |
| | | light brown skin, | | | | | | | |
| | | burns moderately, tans slowly to brown. | | | | | | | |
| | | Mediterranean type (Skin type 4): | | | | | | | |
| | | Dark brown hair, | | | | | | | |
| | | dark skin, | | | | | | | |
| | | burns rarely, the skin tans fast to moderately bro | own | | | | | | |
| | | Dark brown and black types (Skin types 5 an | d 6): | | | | | | |
| | | Black hair, | | | | | | | |
| | | very dark skin, | | | | | | | |
| | | almost never burns, the skin tans fast to dark bro | own. | | | | | | |
| | | | | | | | | | |
| You | ır Attitu | ıde | | | | | | | |
| 7 P | lease ind | dicate how much you agree with each stateme | nt | | | | | | |
| / · · · | | areate new mach you agree with each stateme | | | | | | | |
| | | | Do not aş | gree at all | | | Agree co | mpletely | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| f | 7.1 Lam | very concerned about my health. | | | П | | | | |

| | | o not ag | ree at all | | | Ag | ree com | pletely |
|--|-----------|--------------|------------|---|---|----|-------------|---------|
| | | 1 | 2 | 3 | 4 | | 5 | 6 |
| 7.3. I always take care of my health. | | | | | | [| | |
| 7.4. I usually know, what my current state of health | is. | | | | | [| | |
| 7.5. I am vigilant of changes in my health. | | | | | | [| | |
| 7.6. My health is very important to me. | | | | | | [| | |
| 8. In the following, you will find statements about sagree with each statement. Synthetic substances are | • | lly (che | mically) | | | | stances | S. |
| | | Do no at all | t agree | | | | Agree compl | |
| | | 1 | 2 | 3 | | 4 | 5 | 6 |
| 8.1. The use of synthetic substances has rather i than harmed our health. | mproved | | | | | | | |
| 8.2. I am not concerned about small amounts of substances in our food and groundwater. | synthetic | | | | | | | |
| 8.3. People are unnecessarily concerned with the negative effects of synthetic substances on our hea | - | al 🔲 🗆 | | | | | | |
| 8.4. Synthetic substances play an important rol advancement of the society. | le in the | | | | | | | |
| 8.5. Our society has to deal with more significant put than the risks of synthetic substances. | problems | | | | | | | |
| 8.6. Synthetic substances and the potential risks as with them make me worried. | ssociated | | | | | | | |
| 8.7. No expenses should be spared to decrease ri synthetic substances. | sks from | | | | | | | |
| 8.8. I do everything I can to avoid contact with substances in my daily life. | synthetic | | | | | | | |
| 8.9. The exposure to synthetic substances should a risk-free. | lways be | | | | | | | |
| 8.10. I would prefer to live in a world where substances do not exist. | synthetic | | | | | | | |
| 9. In the following, you will find general statements about the benefits of sunrays. Please in assessment. | | | | | | | | |
| How much do you appreciate the benefit of sun | | | | | | | | |
| rays for | | Not larg | | | | | Very l | arge |
| | | 1 | 2 | 3 | | 4 | 5 | 6 |
| 9.1. the production of vitamin D in the skin? | | | | | | | | |
| 9.2. the prevention of diseases? | | | | | | | | |

10. In the following, you will find general statements about the risks of sunrays. Please indicate your assessment.

| How high do you think is the risk from sunrays for the development of | Not large | at all | | | Very | y large |
|---|-----------|--------|---|---|------|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 10.1. premature wrinkles and skin aging? | | | | | | |
| 10.2. skin spots? | | | | | | |
| 10.3. skin cancer? | | | | | | |

To Conclude, Please Answer a Few Questions about Yourself.

| 11. What is your gender? | f | emale | | male | | | | | |
|--|----------|----------|----------|-------|----------|------------|--|--|--|
| | | | | | | | | | |
| 12. Which year were you born in? | | | | | | | | | |
| 13. What is your body weight in kilogram? | kg | | | | | | | | |
| 14. What is your body height in cm? | cm | | | | | | | | |
| | | | | 1 | 2 | More than | | | |
| 15. How many children below the age of 4 live in your household? | No | children | 1 | child | children | 2 children | | | |
| 4 five in your nousehold: | | | | | | | | | |
| | No | 1 | 2 | 3 | 4 | More than | | | |
| 16. How many children between 4 and 20 | children | child | children | child | children | 4 children | | | |
| years of age live in your household? | | | | | | | | | |

17. Please indicate the highest level of education successfully completed

| Primary school | |
|-----------------------------|--|
| Secondary school | |
| Upper secondary: Vocational | |
| Upper secondary: General | |
| University | |

Thank you very much for taking the time to fill out the survey!

Section S2. Study Population: Restriction Criteria

From the population sample of children and adolescents (N = 464) we excluded 18 respondents with missing age details and 11 respondents older than 17 years to ensure that all respondents belonged to our intended target population aged 0–17 years. A total of 6 respondents was excluded because they did not report their gender. Cases with missing or biologically unrealistic data on body height and weight were also deleted (N = 20). A total of 7 respondents did not indicate who filled out the questionnaire and 3 respondents were identified as not eligible to complete the questionnaire (e.g., children under 14 years of age who answered the questionnaire themselves) and hence their answers deleted. Finally, 2 respondents were deleted due to unrealistic data in sunscreen usage in one season. The number of days by season was: summer/autumn (May to October—184 days); winter/spring (November to April—181 days, with February having 28 days). Thus, the final study cohort of children and adolescents included 397 respondents. Similarly, from the population sample of adults (N = 864), we excluded 19 respondents with missing age and gender details, respectively. Cases with missing or biologically unrealistic data on body height and weight were also deleted (N = 11). We also excluded 5 respondents who returned empty/very incomplete questionnaires and 2 duplicate respondents. Further, 1 respondent was excluded as he/she indicated no sunscreen use in the past year but still answered questions on sunscreen use. Finally, 27 cases were deleted due to unrealistic data in sunscreen usage in one season (same criteria applied as discussed above for children). The remaining cohort of adults included 799 respondents.

Section S3. Supplementary Tables and Figures

Table S1. Mean and percentile body weights (kg) for females.

| Age group | N | Mean | SD | Min | 10th | 25th | Median | 75th | 90th | Max |
|-----------|-----|------|------|------|------|------|--------|------|------|-------|
| (years) | 11 | (kg) | SD | (kg) | (kg) | (kg) | (kg) | (kg) | (kg) | (kg) |
| ≤4 | 35 | 13.3 | 3.0 | 8.0 | 8.6 | 11.0 | 14.0 | 15.0 | 17.4 | 20.0 |
| 5–8 | 42 | 21.6 | 5.4 | 13.0 | 15.3 | 17.0 | 21.0 | 24.0 | 30.0 | 40.0 |
| 9–12 | 59 | 33.1 | 7.8 | 20.0 | 23.0 | 28.0 | 32.0 | 39.0 | 45.0 | 50.0 |
| 13–17 | 62 | 52.0 | 7.4 | 32.0 | 40.0 | 48.8 | 53.0 | 58.0 | 60.0 | 65.0 |
| 18–42 | 131 | 65.4 | 11.5 | 42.0 | 54.2 | 58.0 | 63.0 | 70.0 | 80.0 | 115.0 |
| 43-52 | 120 | 63.7 | 9.3 | 41.0 | 54.1 | 58.0 | 63.0 | 68.0 | 76.9 | 95.0 |
| 53-65 | 117 | 63.2 | 9.6 | 47.0 | 51.6 | 57.0 | 62.0 | 70.0 | 75.0 | 95.0 |
| ≥66 | 87 | 64.8 | 9.5 | 48.0 | 54.0 | 58.0 | 64.0 | 70.0 | 77.4 | 95.0 |

Table S2. Mean and percentile body weights (kg) for males.

| Age group | N | Mean | SD | Min | 10th | 25th | Median | 75th | 90th | Max |
|-----------|----|------|------|------|------|------|--------|------|-------|-------|
| (years) | 11 | (kg) | SD | (kg) | (kg) | (kg) | (kg) | (kg) | (kg) | (kg) |
| ≤4 | 40 | 14.1 | 2.9 | 10.0 | 10.1 | 11.3 | 14.0 | 16.0 | 18.0 | 22.0 |
| 5-8 | 61 | 21.2 | 4.0 | 15.0 | 16.0 | 18.0 | 21.0 | 24.0 | 27.8 | 30.0 |
| 9–12 | 44 | 33.2 | 5.7 | 20.0 | 26.5 | 29.3 | 32.5 | 36.5 | 41.0 | 48.0 |
| 13-17 | 54 | 53.6 | 13.5 | 35.0 | 38.0 | 41.0 | 50.0 | 64.3 | 74.0 | 82.0 |
| 18-42 | 76 | 81.5 | 10.7 | 60.0 | 69.7 | 74.0 | 80.0 | 88.0 | 96.5 | 115.0 |
| 43-52 | 83 | 83.4 | 12.8 | 61.0 | 68.4 | 74.0 | 82.0 | 90.0 | 100.0 | 125.0 |
| 53-65 | 93 | 81.0 | 9.6 | 60.0 | 70.0 | 75.0 | 80.0 | 85.5 | 95.0 | 111.0 |
| ≥66 | 92 | 79.0 | 10.5 | 56.0 | 66.0 | 71.0 | 80.0 | 84.0 | 93.8 | 110.0 |

Table S3. Mean and percentile body heights (cm) for females.

| Age group | N | Mean | cD. | Min | 10th | 25th | Median | 75th | 90th | Max |
|-----------|-----|-------|------|-------|-------|-------|--------|-------|-------|-------|
| (years) | IN | (cm) | SD | (cm) | (cm) | (cm) | (cm) | (cm) | (cm) | (cm) |
| ≤4 | 35 | 92.9 | 11.3 | 70.0 | 74.6 | 83.0 | 97.0 | 102.0 | 104.4 | 109.0 |
| 5-8 | 42 | 119.1 | 10.1 | 98.0 | 105.3 | 110.0 | 120.0 | 125.8 | 131.4 | 142.0 |
| 9–12 | 59 | 140.3 | 10.2 | 123.0 | 128.0 | 130.0 | 140.0 | 150.0 | 153.0 | 165.0 |
| 13-17 | 62 | 163.2 | 7.4 | 142.0 | 155.0 | 160.0 | 163.0 | 167.3 | 173.0 | 179.0 |
| 18-42 | 131 | 167.6 | 6.8 | 152.0 | 159.2 | 163.0 | 168.0 | 172.0 | 175.0 | 198.0 |
| 43-52 | 120 | 166.4 | 6.4 | 150.0 | 158.0 | 162.0 | 166.0 | 171.8 | 175.0 | 180.0 |
| 53-65 | 117 | 165.2 | 6.7 | 150.0 | 157.0 | 160.0 | 165.0 | 170.0 | 174.0 | 184.0 |
| ≥66 | 87 | 162.0 | 5.8 | 148.0 | 153.0 | 158.0 | 162.0 | 166.0 | 168.0 | 176.0 |

Table S4. Mean and percentile body heights (cm) for males.

| Age group | N | Mean | SD | Min | 10th | 25th | Median | 75th | 90th | Max |
|-----------|----|-------|------|-------|-------|-------|--------|-------|-------|-------|
| (years) | | (cm) | | (cm) | (cm) | (cm) | (cm) | (cm) | (cm) | (cm) |
| ≤4 | 40 | 94.4 | 11.4 | 72.0 | 80.1 | 83.8 | 98.0 | 103.8 | 109.8 | 120.0 |
| 5-8 | 61 | 118.0 | 10.3 | 98.0 | 105.0 | 110.0 | 118.0 | 125.0 | 130.8 | 142.0 |
| 9–12 | 44 | 142.4 | 8.5 | 125.0 | 130.0 | 137.0 | 141.5 | 148.0 | 153.0 | 165.0 |
| 13-17 | 54 | 165.8 | 11.1 | 145.0 | 150.5 | 155.8 | 166.0 | 175.0 | 182.0 | 185.0 |
| 18–42 | 76 | 179.3 | 5.9 | 164.0 | 172.0 | 176.0 | 179.5 | 183.8 | 186.3 | 194.0 |
| 43-52 | 83 | 180.8 | 7.0 | 164.0 | 170.4 | 176.0 | 180.0 | 185.0 | 190.0 | 198.0 |
| 53-65 | 93 | 177.1 | 6.8 | 164.0 | 168.4 | 172.0 | 176.0 | 182.0 | 186.6 | 193.0 |
| ≥66 | 92 | 174.2 | 7.0 | 154.0 | 166.3 | 170.0 | 174.0 | 180.0 | 183.7 | 190.0 |

Table S5. Prevalence of PCP use in all respondents, as well as female and male respondents, for the eight investigated PCP categories.

| Children and adoles | N | N | % | N female | N female | % female | N male | N male | % male |
|---------------------|-------------|-------|-------|-------------|----------|----------|-------------|--------|--------|
| Product | respondents | users | users | respondents | users | users | respondents | users | users |
| Face cream | 384 | 262 | 68.2 | 193 | 146 | 75.6 | 191 | 116 | 60.7 |
| Body lotion | 385 | 281 | 73.0 | 191 | 161 | 84.3 | 194 | 120 | 61.9 |
| Aftershave | 349 | 26 | 7.4 | 170 | 15 | 8.8 | 179 | 11 | 6.1 |
| Hand cream | 374 | 175 | 46.8 | 187 | 107 | 57.2 | 187 | 68 | 36.4 |
| Makeup foundation | 363 | 41 | 11.3 | 182 | 35 | 19.2 | 181 | 6 | 3.3 |
| Lip care | 379 | 269 | 71.0 | 189 | 138 | 73.0 | 190 | 131 | 68.9 |
| Lipstick | 365 | 49 | 13.4 | 184 | 41 | 22.3 | 181 | 8 | 4.4 |
| Sunscreen | 397 | 395 | 99.5 | 198 | 198 | 100.0 | 199 | 197 | 99.0 |

| А | d | 11 | 11 | S |
|---|---|----|----|---|

| Duo duo4 | \mathbf{N} | N | % | N female | N female | % female | N male | N male | % male |
|-------------------|--------------|-------|-------|-------------|----------|----------|-------------|--------|--------|
| Product | respondents | users | users | respondents | users | users | respondents | users | users |
| Face cream | 769 | 621 | 80.8 | 444 | 426 | 95.9 | 325 | 195 | 60.0 |
| Body lotion | 765 | 558 | 72.9 | 444 | 399 | 89.9 | 321 | 159 | 49.5 |
| Aftershave | 654 | 263 | 40.2 | 326 | 50 | 15.3 | 328 | 213 | 64.9 |
| Hand cream | 780 | 692 | 88.7 | 447 | 426 | 95.3 | 333 | 266 | 79.9 |
| Makeup foundation | 705 | 209 | 29.6 | 416 | 207 | 49.8 | 289 | 2 | 0.7 |
| Lip care | 728 | 468 | 64.3 | 423 | 341 | 80.6 | 305 | 127 | 41.6 |
| Lipstick | 714 | 265 | 37.1 | 426 | 255 | 59.9 | 288 | 10 | 3.5 |
| Sunscreen | 776 | 705 | 90.9 | 440 | 417 | 94.8 | 336 | 288 | 85.7 |

Table S6. Prevalence and frequency of face cream use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13–17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | 0.0 | 2.4 | 0.0 | 0.0 | 0.8 | 0.0 | 3.4 | 2.5 |
| per day | | | | | | | | |
| 2–3 times per day | 6.1 | 17.1 | 10.2 | 25.0 | 40.0 | 52.5 | 42.2 | 28.8 |
| Once per day | 33.3 | 12.2 | 15.3 | 45.0 | 41.5 | 30.5 | 38.8 | 62.5 |
| 5–6 times per week | 12.1 | 12.2 | 3.4 | 3.3 | 3.1 | 1.7 | 1.7 | 2.5 |
| 3–4 times per week | 9.1 | 2.4 | 5.1 | 5.0 | 5.4 | 3.4 | 1.7 | 1.3 |
| 1–2 times per week | 12.1 | 17.1 | 10.2 | 8.3 | 4.6 | 2.5 | 4.3 | 0.0 |
| 1–3 times per month | 6.1 | 9.8 | 16.9 | 3.3 | 2.3 | 2.5 | 2.6 | 1.3 |
| Rarely/Never | 21.2 | 26.8 | 39.0 | 10.0 | 2.3 | 6.8 | 5.2 | 1.3 |
| Males | | | | | | | | |
| Application | 0–4 | 5–8 | 9–12 | 13–17 | 18–42 | 43–52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 |
| per day | | | | | | | | |
| 2–3 times per day | 10.3 | 10.2 | 4.8 | 5.9 | 8.3 | 7.4 | 4.5 | 2.4 |
| Once per day | 28.2 | 18.6 | 14.3 | 19.6 | 19.4 | 27.2 | 34.8 | 32.5 |
| 5–6 times per week | 5.1 | 3.4 | 0.0 | 0.0 | 5.6 | 4.9 | 2.2 | 2.4 |
| 3–4 times per week | 10.3 | 11.9 | 4.8 | 3.9 | 8.3 | 1.2 | 3.4 | 2.4 |
| 1–2 times per week | 20.5 | 11.9 | 7.1 | 13.7 | 5.6 | 9.9 | 6.7 | 7.2 |
| 1–3 times per month | 2.6 | 13.6 | 9.5 | 9.8 | 15.3 | 9.9 | 4.5 | 13.3 |
| Rarely/Never | 20.5 | 30.5 | 59.5 | 47.1 | 37.5 | 39.5 | 42.7 | 39.8 |

Table S7. Prevalence and frequency of body lotion use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13-17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.3 |
| 2–3 times per day | 5.7 | 0.0 | 1.8 | 0.0 | 1.5 | 4.2 | 2.6 | 3.8 |
| Once per day | 14.3 | 7.5 | 7.0 | 28.8 | 27.5 | 32.2 | 45.7 | 46.8 |
| 5–6 times per week | 0.0 | 0.0 | 1.8 | 5.1 | 7.6 | 6.8 | 6.0 | 1.3 |
| 3–4 times per week | 14.3 | 12.5 | 10.5 | 20.3 | 13.0 | 13.6 | 11.2 | 13.9 |
| 1–2 times per week | 45.7 | 40.0 | 17.5 | 25.4 | 26.7 | 17.8 | 16.4 | 22.8 |
| 1–3 times per month | 8.6 | 22.5 | 38.6 | 10.2 | 13.0 | 11.9 | 8.6 | 2.5 |
| Rarely/Never | 11.4 | 17.5 | 22.8 | 10.2 | 10.7 | 13.6 | 7.8 | 7.6 |

Table S7. Cont.

| Males | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13–17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| 2–3 times per day | 5.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.2 | 0.0 | 2.5 |
| Once per day | 2.5 | 6.6 | 0.0 | 13.7 | 7.0 | 6.2 | 15.7 | 13.8 |
| 5–6 times per week | 2.5 | 1.6 | 2.4 | 0.0 | 1.4 | 1.2 | 2.2 | 1.3 |
| 3–4 times per week | 20.0 | 8.2 | 2.4 | 0.0 | 5.6 | 7.4 | 2.2 | 7.5 |
| 1–2 times per week | 45.0 | 34.4 | 23.8 | 11.8 | 11.3 | 12.3 | 10.1 | 18.8 |
| 1–3 times per month | 10.0 | 24.6 | 26.2 | 7.8 | 14.1 | 18.5 | 21.3 | 12.5 |
| Rarely/Never | 15.0 | 24.6 | 45.2 | 66.7 | 59.2 | 53.1 | 48.3 | 42.5 |

Table S8. Prevalence and frequency of aftershave use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5–8 | 9–12 | 13–17 | 18–42 | 43–52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.4 |
| 2–3 times per day | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 1.3 | 0.0 |
| Once per day | 0.0 | 0.0 | 0.0 | 12.5 | 5.3 | 5.3 | 10.5 | 14.6 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| 3–4 times per week | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 3.2 | 0.0 | 9.8 |
| 1–2 times per week | 6.3 | 2.8 | 1.9 | 2.1 | 2.6 | 0.0 | 2.6 | 0.0 |
| 1–3 times per month | 3.1 | 2.8 | 0.0 | 2.1 | 4.4 | 1.1 | 0.0 | 0.0 |
| Rarely/Never | 90.6 | 94.4 | 98.1 | 81.3 | 84.2 | 90.5 | 84.2 | 73.2 |
| Males | | | | | | | | |
| Application | 0–4 | 5-8 | 9–12 | 13–17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 |
| 2–3 times per day | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.4 | 4.4 | 2.4 |
| Once per day | 2.7 | 0.0 | 0.0 | 2.1 | 26.0 | 18.3 | 39.6 | 42.7 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 4.9 |
| 3–4 times per week | 0.0 | 0.0 | 0.0 | 4.3 | 16.4 | 9.8 | 3.3 | 4.9 |
| 1–2 times per week | 0.0 | 0.0 | 0.0 | 10.6 | 24.7 | 9.8 | 3.3 | 12.2 |
| 1–3 times per month | 0.0 | 0.0 | 0.0 | 2.1 | 8.2 | 11.0 | 7.7 | 3.7 |
| Rarely/Never | 97.3 | 100.0 | 100.0 | 78.7 | 24.7 | 48.8 | 36.3 | 29.3 |

Table S9. Prevalence and frequency of hand cream use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13–17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 2.6 | 1.8 | 8.3 | 9.3 | 13.4 | 11.2 | 14.5 |
| 2–3 times per day | 0.0 | 2.6 | 1.8 | 18.3 | 25.6 | 36.1 | 39.7 | 43.4 |
| Once per day | 6.1 | 5.3 | 8.9 | 13.3 | 20.9 | 16.8 | 22.4 | 26.5 |
| 5–6 times per week | 3.0 | 2.6 | 1.8 | 10.0 | 3.1 | 3.4 | 2.6 | 1.2 |
| 3–4 times per week | 3.0 | 7.9 | 1.8 | 5.0 | 13.2 | 10.1 | 9.5 | 3.6 |
| 1–2 times per week | 15.2 | 13.2 | 14.3 | 16.7 | 17.8 | 8.4 | 5.2 | 3.6 |
| 1–3 times per month | 3.0 | 5.3 | 25.0 | 13.3 | 7.0 | 6.7 | 2.6 | 3.6 |
| Rarely/Never | 69.7 | 60.5 | 44.6 | 15.0 | 3.1 | 5.0 | 6.9 | 3.6 |
| Males | | | | | | | | |
| Application | 0–4 | 5–8 | 9–12 | 13–17 | 18–42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 2.6 | 1.7 | 0.0 | 2.0 | 2.6 | 3.6 | 3.3 | 0.0 |
| 2–3 times per day | 5.3 | 3.4 | 7.3 | 2.0 | 9.2 | 13.3 | 20.7 | 15.9 |
| Once per day | 0.0 | 1.7 | 4.9 | 4.0 | 14.5 | 21.7 | 17.4 | 25.6 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 2.0 | 2.6 | 3.6 | 0.0 | 2.4 |
| 3–4 times per week | 0.0 | 1.7 | 4.9 | 2.0 | 9.2 | 9.6 | 9.8 | 6.1 |
| 1–2 times per week | 5.3 | 8.6 | 0.0 | 20.0 | 13.2 | 14.5 | 13.0 | 17.1 |
| 1–3 times per month | 7.9 | 8.6 | 31.7 | 18.0 | 28.9 | 14.5 | 10.9 | 17.1 |
| Rarely/Never | 78.9 | 74.1 | 51.2 | 50.0 | 19.7 | 19.3 | 25.0 | 15.9 |

Table S10. Prevalence and frequency of makeup foundation use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13-17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2–3 times per day | 0.0 | 0.0 | 0.0 | 3.5 | 3.2 | 1.7 | 0.9 | 2.9 |
| Once per day | 0.0 | 2.7 | 1.8 | 29.8 | 27.2 | 31.9 | 23.6 | 23.2 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 8.8 | 3.2 | 0.0 | 1.9 | 0.0 |
| 3–4 times per week | 0.0 | 0.0 | 1.8 | 3.5 | 10.4 | 4.3 | 0.9 | 2.9 |
| 1–2 times per week | 0.0 | 0.0 | 0.0 | 3.5 | 7.2 | 3.4 | 6.6 | 8.7 |
| 1–3 times per month | 0.0 | 0.0 | 0.0 | 7.0 | 15.2 | 6.0 | 4.7 | 2.9 |
| Rarely/Never | 100.0 | 97.3 | 96.4 | 43.9 | 33.6 | 52.6 | 61.3 | 59.4 |

Table S10. Cont.

| Males | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13–17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2–3 times per day | 2.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Once per day | 2.7 | 0.0 | 2.4 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3–4 times per week | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1–2 times per week | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1–3 times per month | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rarely/Never | 94.6 | 96.4 | 97.6 | 97.9 | 97.2 | 100 | 100 | 100.0 |

Table S11. Prevalence and frequency of lip care use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13-17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 3.4 | 18.6 | 17.5 | 17.9 | 11.8 | 10.0 |
| 2–3 times per day | 0.0 | 5.0 | 6.9 | 27.1 | 13.5 | 22.2 | 27.3 | 22.9 |
| Once per day | 6.3 | 12.5 | 10.3 | 23.7 | 18.3 | 13.7 | 13.6 | 21.4 |
| 5–6 times per week | 0.0 | 0.0 | 1.7 | 5.1 | 6.3 | 2.6 | 3.6 | 1.4 |
| 3–4 times per week | 0.0 | 5.0 | 13.8 | 5.1 | 7.9 | 10.3 | 8.2 | 2.9 |
| 1–2 times per week | 6.3 | 22.5 | 20.7 | 11.9 | 14.3 | 5.1 | 5.5 | 11.4 |
| 1–3 times per month | 18.8 | 25.0 | 19.0 | 3.4 | 11.1 | 10.3 | 4.5 | 2.9 |
| Rarely/Never | 68.8 | 30.0 | 24.1 | 5.1 | 11.1 | 17.9 | 25.5 | 27.1 |
| Males | | | | | | | | |
| Application | 0–4 | 5–8 | 9–12 | 13–17 | 18–42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 2.4 | 0.0 | 2.7 | 3.7 | 1.2 | 1.4 |
| 2–3 times per day | 5.3 | 6.7 | 7.1 | 6.0 | 13.7 | 4.9 | 4.9 | 4.3 |
| Once per day | 5.3 | 6.7 | 9.5 | 6.0 | 4.1 | 6.2 | 6.1 | 0.0 |
| 5–6 times per week | 0.0 | 3.3 | 4.8 | 6.0 | 2.7 | 1.2 | 2.4 | 1.4 |
| 3–4 times per week | 5.3 | 11.7 | 11.9 | 14.0 | 4.1 | 4.9 | 2.4 | 1.4 |
| 1–2 times per week | 7.9 | 13.3 | 16.7 | 28.0 | 8.2 | 6.2 | 11.0 | 5.8 |
| 1–3 times per month | 21.1 | 31.7 | 26.2 | 14.0 | 19.2 | 17.3 | 12.2 | 11.6 |
| Rarely/Never | 55.3 | 26.7 | 21.4 | 26.0 | 45.2 | 55.6 | 59.8 | 73.9 |

Table S12. Prevalence and frequency of lipstick use in females and males by age group.

| Females | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Application | 0–4 | 5-8 | 9–12 | 13-17 | 18-42 | 43-52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 4.3 | 3.6 | 1.4 |
| 2–3 times per day | 0.0 | 0.0 | 3.6 | 8.3 | 11.7 | 21.7 | 17.3 | 24.7 |
| Once per day | 3.1 | 5.4 | 0.0 | 3.3 | 7.8 | 10.4 | 18.2 | 21.9 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 3.3 | 0.8 | 3.5 | 3.6 | 5.5 |
| 3–4 times per week | 0.0 | 0.0 | 0.0 | 5.0 | 3.1 | 10.4 | 3.6 | 8.2 |
| 1–2 times per week | 3.1 | 0.0 | 3.6 | 18.3 | 10.9 | 3.5 | 3.6 | 4.1 |
| 1–3 times per month | 3.1 | 8.1 | 3.6 | 6.7 | 17.2 | 7.0 | 8.2 | 6.8 |
| Rarely/Never | 90.6 | 86.5 | 89.1 | 55.0 | 46.9 | 39.1 | 41.8 | 27.4 |
| Males | | | | | | | | |
| Application | 0–4 | 5–8 | 9–12 | 13–17 | 18–42 | 43–52 | 53-65 | 66+ |
| frequency | years |
| Four times or more | | | | | | | | |
| per day | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2–3 times per day | 2.7 | 0.0 | 2.4 | 0.0 | 1.4 | 1.3 | 0.0 | 0.0 |
| Once per day | 0.0 | 0.0 | 0.0 | 2.1 | 2.8 | 0.0 | 0.0 | 1.7 |
| 5–6 times per week | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3–4 times per week | 0.0 | 0.0 | 0.0 | 2.1 | 1.4 | 0.0 | 0.0 | 0.0 |
| 1–2 times per week | 2.7 | 0.0 | 0.0 | 2.1 | 0.0 | 1.3 | 1.3 | 0.0 |
| 1–3 times per month | 0.0 | 1.8 | 0.0 | 2.1 | 0.0 | 2.6 | 0.0 | 0.0 |
| Rarely/Never | 94.6 | 98.2 | 97.6 | 91.5 | 94.4 | 94.8 | 98.8 | 98.3 |

Table S13. PCP co-use patterns for adult males.

| PCP combination | no. of users | % users ^a |
|--|--------------|----------------------|
| sunscreen, face cream, body lotion, aftershave, hand cream, lip care | 33 | 13.5 |
| sunscreen, face cream, body lotion, aftershave, hand cream | 26 | 10.6 |
| sunscreen, aftershave, hand cream | 16 | 6.5 |
| sunscreen, face cream, aftershave, hand cream, lip care | 15 | 6.1 |
| sunscreen, face cream, hand cream | 12 | 4.9 |
| sunscreen, aftershave, hand cream, lip care | 11 | 4.5 |
| sunscreen, hand cream | 10 | 4.1 |
| sunscreen, face cream, body lotion, hand cream | 10 | 4.1 |
| sunscreen, body lotion, aftershave, hand cream | 8 | 3.3 |
| sunscreen, face cream, body lotion, hand cream, lip care | 8 | 3.3 |
| sunscreen, aftershave | 6 | 2.4 |
| aftershave, hand cream | 6 | 2.4 |

Table S13. Cont.

| sunscreen, face cream, aftershave, hand cream | 6 | 2.4 |
|--|---|-----|
| sunscreen, face cream | 5 | 2.0 |
| sunscreen, hand cream, lip care | 5 | 2.0 |
| sunscreen, face cream, hand cream, lip care | 5 | 2.0 |
| sunscreen, lip care | 4 | 1.6 |
| sunscreen, face cream, aftershave | 4 | 1.6 |
| sunscreen, face cream, body lotion, aftershave | 4 | 1.6 |
| face cream, hand cream | 3 | 1.2 |
| sunscreen, body lotion, lip care | 3 | 1.2 |
| face cream, aftershave, hand cream | 3 | 1.2 |
| aftershave, hand cream, lip care | 3 | 1.2 |
| sunscreen, body lotion, hand cream, lip care | 3 | 1.2 |
| face cream, body lotion, aftershave, hand cream | 3 | 1.2 |
| sunscreen, body lotion | 2 | 0.8 |
| body lotion, aftershave | 2 | 0.8 |
| sunscreen, body lotion, aftershave | 2 | 0.8 |
| sunscreen, body lotion, hand cream | 2 | 0.8 |
| sunscreen, body lotion, aftershave, hand cream, lip care | 2 | 0.8 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lipstick | 2 | 0.8 |
| face cream, aftershave | 1 | 0.4 |
| body lotion, hand cream | 1 | 0.4 |
| hand cream, lip care | 1 | 0.4 |
| sunscreen, face cream, body lotion | 1 | 0.4 |
| sunscreen, face cream, lip care | 1 | 0.4 |
| sunscreen, aftershave, lip care | 1 | 0.4 |
| face cream, hand cream, lip care | 1 | 0.4 |
| body lotion, aftershave, hand cream | 1 | 0.4 |
| sunscreen, face cream, body lotion, lip care | 1 | 0.4 |
| sunscreen, face cream, aftershave, lip care | 1 | 0.4 |
| sunscreen, body lotion, aftershave, lip care | 1 | 0.4 |
| face cream, aftershave, hand cream, lip care | 1 | 0.4 |
| sunscreen, face cream, body lotion, aftershave, lip care | 1 | 0.4 |
| sunscreen, face cream, aftershave, hand cream, lipstick | 1 | 0.4 |
| sunscreen, aftershave, hand cream, lip care, lipstick | 1 | 0.4 |
| face cream, body lotion, aftershave, hand cream, lip care | 1 | 0.4 |
| sunscreen, face cream, body lotion, hand cream, lip care, lipstick | 1 | 0.4 |
| sunscreen, face cream, aftershave, hand cream, lip care, lipstick | 1 | 0.4 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup, lip | | |
| care | 1 | 0.4 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lip care, lipstick | 1 | 0.4 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup, lip | | |
| care, lipstick | 1 | 0.4 |

^a Overall 245 adult male respondents reported product co-use.

Table S14. PCP co-use patterns for adult females.

| PCP combination | no. users | % users ^a |
|--|-----------|----------------------|
| sunscreen, face cream, body lotion, hand cream, makeup, lip care, lipstick | 71 | 24.1 |
| sunscreen, face cream, body lotion, hand cream, lip care | 37 | 12.5 |
| sunscreen, face cream, body lotion, hand cream, lip care, lipstick | 31 | 10.5 |
| sunscreen, face cream, body lotion, hand cream, makeup, lip care | 27 | 9.2 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup, lip care, | | |
| lipstick | 14 | 4.7 |
| sunscreen, face cream, body lotion, hand cream | 13 | 4.4 |
| sunscreen, face cream, body lotion, hand cream, lipstick | 10 | 3.4 |
| sunscreen, face cream, hand cream, lip care | 7 | 2.4 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lip care | 7 | 2.4 |
| sunscreen, face cream, body lotion, hand cream, makeup, lipstick | 7 | 2.4 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lip care, lipstick | 7 | 2.4 |
| sunscreen, hand cream | 4 | 1.4 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup, lip care | 4 | 1.4 |
| sunscreen, face cream, body lotion | 3 | 1.0 |
| face cream, body lotion, hand cream, lip care | 3 | 1.0 |
| sunscreen, face cream, hand cream, lip care, lipstick | 3 | 1.0 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lipstick | 3 | 1.0 |
| sunscreen, face cream | 2 | 0.7 |
| sunscreen, face cream, hand cream | 2 | 0.7 |
| sunscreen, body lotion, hand cream | 2 | 0.7 |
| face cream, hand cream, makeup, lip care | 2 | 0.7 |
| sunscreen, face cream, body lotion, hand cream, makeup | 2 | 0.7 |
| sunscreen, face cream, body lotion, lip care, lipstick | 2 | 0.7 |
| sunscreen, face cream, hand cream, makeup, lip care | 2 | 0.7 |
| sunscreen, face cream, hand cream, makeup, lipstick | 2 | 0.7 |
| sunscreen, face cream, body lotion, makeup, lip care, lipstick | 2 | 0.7 |
| sunscreen, face cream, hand cream, makeup, lip care, lipstick | 2 | 0.7 |
| sunscreen, lip care | 1 | 0.3 |
| face cream, hand cream | 1 | 0.3 |
| aftershave, hand cream | 1 | 0.3 |
| sunscreen, face cream, lip care | 1 | 0.3 |
| sunscreen, hand cream, lip care | 1 | 0.3 |
| face cream, body lotion, hand cream | 1 | 0.3 |
| sunscreen, face cream, body lotion, lip care | 1 | 0.3 |
| sunscreen, face cream, body lotion, lipstick | 1 | 0.3 |
| sunscreen, face cream, hand cream, makeup | 1 | 0.3 |
| sunscreen, face cream, hand cream, lipstick | 1 | 0.3 |
| sunscreen, face cream, makeup, lip care | 1 | 0.3 |
| sunscreen, face cream, lip care, lipstick | 1 | 0.3 |
| sunscreen, body lotion, hand cream, lip care | 1 | 0.3 |
| sunscreen, face cream, body lotion, aftershave, hand cream | 1 | 0.3 |

Table S14. Cont.

| sunscreen, face cream, aftershave, hand cream, lipstick | 1 | 0.3 |
|--|---|-----|
| sunscreen, body lotion, hand cream, makeup, lip care | 1 | 0.3 |
| face cream, body lotion, aftershave, hand cream, lip care | 1 | 0.3 |
| face cream, body lotion, hand cream, makeup, lip care | 1 | 0.3 |
| face cream, body lotion, hand cream, lip care, lipstick | 1 | 0.3 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup | 1 | 0.3 |
| sunscreen, face cream, aftershave, hand cream, makeup, lipstick | 1 | 0.3 |
| face cream, body lotion, hand cream, makeup, lip care, lipstick | 1 | 0.3 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup, | | |
| lipstick | 1 | 0.3 |
| sunscreen, body lotion, aftershave, hand cream, makeup, lip care, lipstick | 1 | 0.3 |

^a Overall 295 adult female respondents reported product co-use.

Table S15. PCP co-use patterns for children and adolescent males.

| PCP combination | no. users | % users ^a |
|---|-----------|----------------------|
| sunscreen, face cream, body lotion, lip care | 33 | 21.2 |
| sunscreen, face cream, body lotion | 18 | 11.5 |
| sunscreen, lip care | 16 | 10.3 |
| sunscreen, face cream, body lotion, hand cream, lip care | 16 | 10.3 |
| sunscreen, body lotion, lip care | 13 | 8.3 |
| sunscreen, hand cream, lip care | 10 | 6.4 |
| sunscreen, face cream, hand cream, lip care | 9 | 5.8 |
| sunscreen, body lotion, hand cream, lip care | 6 | 3.8 |
| sunscreen, face cream | 6 | 3.8 |
| sunscreen, body lotion | 5 | 3.2 |
| sunscreen, face cream, lip care | 4 | 2.6 |
| sunscreen, hand cream | 3 | 1.9 |
| sunscreen, face cream, body lotion, hand cream | 3 | 1.9 |
| sunscreen, face cream, hand cream | 2 | 1.3 |
| sunscreen, face cream, body lotion, hand cream, makeup, lip care | 2 | 1.3 |
| sunscreen, face cream, body lotion, aftershave, hand cream, makeup, lip care, | | |
| lipstick | 2 | 1.3 |
| sunscreen, lipstick | 1 | 0.6 |
| sunscreen, face cream, aftershave | 1 | 0.6 |
| sunscreen, face cream, body lotion, aftershave | 1 | 0.6 |
| sunscreen, face cream, aftershave, hand cream | 1 | 0.6 |
| sunscreen, face cream, aftershave, lip care | 1 | 0.6 |
| sunscreen, body lotion, aftershave, lip care | 1 | 0.6 |
| sunscreen, aftershave, hand cream, lip care | 1 | 0.6 |
| sunscreen, face cream, body lotion, hand cream, lip care, lipstick | 1 | 0.6 |

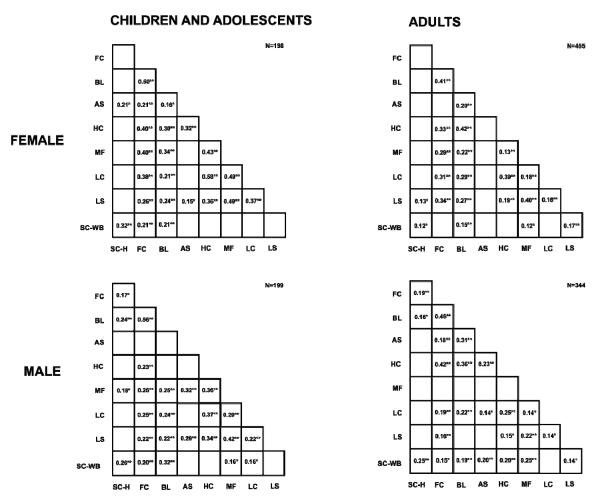
^a Overall 156 children and adolescent male respondents reported product co-use.

Table S16. PCP co-use patterns for children and adolescent females.

| PCP combination | no. users | % users |
|--|-----------|---------|
| sunscreen, face cream, body lotion, hand cream, lip care | 29 | 18.4 |
| sunscreen, face cream, body lotion | 17 | 10.8 |
| sunscreen, face cream, body lotion, lip care | 17 | 10.8 |
| sunscreen, face cream, body lotion, hand cream, makeup, lip care, | | |
| lipstick | 10 | 6.3 |
| sunscreen, body lotion, lip care | 8 | 5.1 |
| sunscreen, body lotion | 7 | 4.4 |
| sunscreen, face cream, body lotion, hand cream, makeup, lip care | 7 | 4.4 |
| sunscreen, body lotion, hand cream, lip care | 6 | 3.8 |
| sunscreen, face cream, body lotion, hand cream, lip care, lipstick | 6 | 3.8 |
| sunscreen, face cream, body lotion, hand cream | 5 | 3.2 |
| sunscreen, face cream, hand cream, lip care | 5 | 3.2 |
| sunscreen, face cream | 4 | 2.5 |
| sunscreen, face cream, body lotion, lip care, lipstick | 4 | 2.5 |
| sunscreen, lip care | 3 | 1.9 |
| sunscreen, hand cream, lip care | 3 | 1.9 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lip | | |
| care | 3 | 1.9 |
| sunscreen, face cream, body lotion, aftershave, hand cream, | | |
| makeup, lip care, lipstick | 2 | 1.3 |
| sunscreen, face cream, hand cream | 2 | 1.3 |
| sunscreen, face cream, lip care | 2 | 1.3 |
| sunscreen, body lotion, hand cream | 2 | 1.3 |
| sunscreen, body lotion, hand cream, lip care, lipstick | 2 | 1.3 |
| sunscreen, face cream, body lotion, aftershave, hand cream, | | |
| makeup, lip care | 2 | 1.3 |
| sunscreen, face cream, aftershave | 1 | 0.6 |
| sunscreen, face cream, lipstick | 1 | 0.6 |
| sunscreen, body lotion, lipstick | 1 | 0.6 |
| sunscreen, body lotion, hand cream, lipstick | 1 | 0.6 |
| sunscreen, face cream, body lotion, aftershave, hand cream | 1 | 0.6 |
| sunscreen, face cream, body lotion, aftershave, lip care | 1 | 0.6 |
| sunscreen, body lotion, aftershave, hand cream, lip care | 1 | 0.6 |
| sunscreen, body lotion, hand cream, makeup, lip care | 1 | 0.6 |
| sunscreen, hand cream, makeup, lip care, lipstick | 1 | 0.6 |
| sunscreen, face cream, body lotion, makeup, lip care, lipstick | 1 | 0.6 |
| sunscreen, face cream, hand cream, makeup, lip care, lipstick | 1 | 0.6 |
| sunscreen, face cream, body lotion, aftershave, hand cream, lip | | |
| care, lipstick | 1 | 0.6 |

^a Overall 158 children and adolescent female respondents reported product co-use.

Figure S1. Correlation between use frequencies of the eight different PCP categories by gender and life-stage subgroup.



^{*} Correlation is significant at 0.05 level (2-tailed). ** Correlation is significant at 0.01 level (2-tailed).

Zero use included; FC (face cream); BL (body lotion); AS (aftershave); HC (hand cream); MF (makeup foundation); LS (lipstick); LC (lip care); SC-WH (sunscreen whole body application in summer); SC-H (sunscreen head only application in winter).

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