

Supplementary material

Figure 1. English translation of the questionnaire.



Espacio Interdisciplinario
Universidad de la República
Uruguay

**SURVEY ON FOOD
ADVERTISING IN SOCIAL
MEDIA
2024**

Participant number:

Institution number:

In the following section, we are
going to ask you a few
questions about
advertisements of foods and
beverages

**1. Have you seen advertisements of foods
and beverages on social media or websites
in the last week?**

Yes, more than once a day.....☐

Yes, once a day.....☐

Yes, several times a week.....☐

Yes, once in the week.....☐

No, I haven't seen any advertisement....☐

**2. What advertisements of food and
beverages do you recall seeing on social
media?**

**3. In which of the following media do you
remember seeing any food or beverage
advertisements in the last week?**

Instagram

Yes ☐ No ☐

TikTok

Yes ☐ No ☐

Facebook

Yes ☐ No ☐

YouTube

Yes ☐ No ☐

Snapchat

Yes ☐ No ☐

Twitter

Yes ☐ No ☐

Web browsing

Yes ☐ No ☐

Twitch

Yes ☐ No ☐

**4. Do you remember seeing any
advertisement of the following food or
beverages on social media or websites in
the last week?**

Soft drinks

Yes ☐ No ☐

Energy drinks

Yes ☐ No ☐

Flavoured water

Yes ☐ No ☐

Bottled juices or powdered drinks

Yes ☐ No ☐

Cookies or crackers

Yes ☐ No ☐

Alfajores

Yes ☐ No ☐

Flavoured milk, yogurt, or milk
desserts

Yes ☐ No ☐

Chocolates or confectionary

Yes ☐ No ☐

Ice-cream

Yes ☐ No ☐

Cold-cuts or sausages (e.g., ham,
salami, sausages, hot dogs)

Yes ☐ No ☐

Breakfast cereals or cereal bars

Yes ☐ No ☐

Bakery products (e.g., croissants,
donuts, pastries)

Yes ☐ No ☐

Savoury snacks (e.g., potato chips,
Doritos, Cheetos)

Yes ☐ No ☐

Condiments (e.g., ketchup,
mustard, mayonnaise)

Yes ☐ No ☐

Soups or broths

Yes ☐ No ☐

Marmalades or dulce de leche

Yes ☐ No ☐

Food eaten in fast food restaurants
(e.g., burgers, pizza, French fries)

Yes ☐ No ☐

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In the following section you will see a list of foods and beverages. We will ask you to indicate how often you have eaten or drunk them last week.

5. How many days last week did you eat fruits?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

6. How many days last week did you eat vegetables?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

7. How many days last week did you eat beef, chicken or pork?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

8. How many days last week did you eat fish?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

9. How many days last week did you drink milk or eat cheese?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

10. How many days last week did you drink soft drinks?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

11. How many days last week did you drink energy drinks?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
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12. How many days last week did you drink flavoured water?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
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13. How many days last week did you drink bottled juices or powdered drinks?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

14. How many days last week did you eat cookies or crackers?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

15. How many days last week did you eat alfajores?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

16. How many days last week did you drink flavoured milk or yogurt or eat dairy desserts?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

17. How many days last week did you eat chocolates or candies?

0 days	1 day	2 to 3 days	4 to 6 days	7 days
☐	☐	☐	☐	☐

18. How many days last week did you eat **ice-cream**?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

19. How many days last week did you eat **cold cuts or sausages** (e.g., ham, salami, sausages, hot dogs)?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

20. How many days last week did you eat **breakfast cereals or cereal bars**?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

21. How many days last week did you eat **bakery products** (e.g., croissants, donuts, pastries)?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

23. How many days last week did you eat **savoury snacks** (e.g., potato chips, Doritos, Cheetos)?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

24. How many days last week did you eat **ketchup, mustard or mayonnaise**?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

25. How many days last week did you eat or ordered **at a fast-food restaurant** (e.g., burgers, pizza, French fries)?

0	1	2 to 3	4 to 6	7
days	day	days	days	days
☐	☐	☐	☐	☐

The following questions are related to social media and TV

26. On a normal weekday, how much time do you use **Instagram**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

27. On a normal weekday, how much time do you use **TikTok**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

28. On a normal weekday, how much time do you use **Facebook**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

29. On a normal weekday, how much time do you use **Twitter**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

30. On a normal weekday, how much time do you use **YouTube**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

31. On a normal weekday, how much time do you use **website browsing**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

32. On a normal weekday, how much time do you use **Snapchat**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

33. On a normal weekday, how much time do you use **Twitch**?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

34. On a normal weekday, how much time do you **watch TV** (including cable TV, Netflix, Disney+ or other platforms)?

I don't use	Less than 15 minutes	15 to 30 minutes	30 minutes to 1 hour	1 to 2 hours	2 to 3 hours	3 to 4 hours	More than 4 hours
☐	☐	☐	☐	☐	☐	☐	☐

The last questions are about yourself

37. What is your gender?

Feminine.....☐

Masculine.....☐

Other.....☐

36. How old are you?

Age _____

37. In which neighbourhood do you live?

Neighbourhood _____

You have reached the end of the questionnaire.

Thank you very much!

Table 1. Results of the ordinal logistic regressions analysing the association between consumption frequency of specific ultra-processed product categories and self-reported exposure to an advertisement of the food category on digital media in the previous week and total social media use (hours), while controlling for gender, age range, socio-economic status and TV watching time. Results of the Lipsitz goodness of fit and Pulkstenis-Robinson chi-squared tests are also shown.

Food group	Exposure to a food advertisement (Yes vs. No)	Total social media use (hours)	Socio-economic status (Low vs. High)	Socio-economic status (Medium vs. High)	Age range (15.19 vs. 11-14)	Gender (Male vs. Female)	TV use (hours)	Lipsitz test	Pulkstenis-Robinson test
Soft drinks	<0.001	<0.001	0.17	0.69	0.169	0.255	<0.001	0.886	0.499
Energy drinks	<0.001	<0.001	0.35	0.73	0.029	0.022	0.904	0.827	0.148
Flavoured water	<0.001	0.241	0.494	0.489	0.301	0.718	0.071	0.916	0.094
Bottled juices or powdered drinks	0.016	0.003	0.106	0.072	<0.001	0.292	0.057	0.52	0.719
Savory snacks	<0.001	<0.001	0.565	0.648	0.028	0.705	0.077	0.304	0.669
Bakery products	<0.001	0.001	0.068	0.047	0.549	0.443	<0.001	0.256	0.407
Cookies or crackers	0.988	0.150	0.988	0.617	0.129	0.637	0.028	0.619	0.576
Alfajores	<0.001	<0.001	0.413	0.704	0.093	0.093	0.08	0.275	0.762
Breakfast cereals or cereal bars	<0.001	0.487	0.019	0.003	0.63	0.936	0.234	0.478	0.516
Flavoured milk, yogurt or dairy deserts	<0.001	<0.001	0.629	0.114	<0.001	0.586	0.767	0.982	0.186
Ice-cream	0.006	0.098	0.008	0.005	0.215	0.883	0.956	0.63	0.623
Chocolates or confectionary	<0.001	0.004	0.197	0.032	0.098	<0.001	0.052	0.645	0.567
Cold cuts and sausages	0.002	0.047	0.002	0.328	0.752	<0.001	0.009	0.241	0.846
Ketchup or mayonnaise	<0.001	<0.001	0.702	0.746	0.472	0.011	0.015	0.99	0.513
Fast food	0.050	<0.001	0.414	<0.001	0.345	0.011	0.489	0.757	0.002

Notes: Participants with missing data (n=24) or whose self-reported gender identities (n=9) different from males and females were not considered in the model. The reference in the model for consumption frequency was '0 days' compared to '1 day', and '2-3 days', '4-6 days' and '7 days'. p-values highlighted in bold are significant at 0.05.

Table 2. Results of the ordinal logistic regressions analysing the association between consumption frequency of specific food groups and self-reported exposure to digital food marketing in the week prior to the survey and total social media use (hours), while controlling for gender, age range, socio-economic status and TV watching time. Results of the Lipsitz goodness of fit and Pulkstenis-Robinson chi-squared tests are also shown.

Food group	Exposure to a food advertisement (Yes vs. No)	Total social media use (hours)	Socio-economic status (Low vs. High)	Socio-economic status (Medium vs. High)	Age range (15.19 vs. 11-14)	Gender (Male vs. Female)	TV use (hours)	Lipsitz test	Pulkstenis-Robinson test
Fruits	0.311	<0.001	<0.001	<0.001	0.613	<0.001	0.636	0.171	0.16
Vegetables	0.298	0.009	0.088	0.02	0.005	<0.001	0.466	0.052	0.101
Meats	0.646	0.169	0.102	0.795	0.039	<0.001	0.466	0.416	0.274
Fish	0.928	0.206	0.074	0.053	0.73	<0.001	0.654	0.910	<0.001

Notes: Participants with missing data (n=24) or whose self-reported gender identities (n=9) different from males and females were not considered in the model. The reference in the model for consumption frequency was '0 days' compared to '1 day', and '2-3 days', '4-6 days' and '7 days'. p-values highlighted in bold are significant at 0.05.