Wave 2

Start of Block: ConsentDemogs

Study Information **Welcome to the Part 2 of the Study "**Understanding Digital Media and Surveys**" We provide the Participant Information Sheet and Consent Form, which is same as Part 1, below. Please click Continue to proceed to the last part of this study.** This is a **much shorter survey**, expected to take around **5 to 7 minutes**.
PARTICIPANT INFORMATION SHEET & CONSENT FORM 1.Protocol title Understanding Digital Media and Surveys Protocol No: **NUS-IRB-2023-781 2.Principal Investigator and co-investigator(s), if any, with the contact number and organization:** Principal Investigator: Dr Ozan Kuru Department of Communications and New Media National University of Singapore okuru@nus.edu.sg: Phone: +65 66016593 **3.What is the purpose of this research?** You are invited to participate in a research study. This information sheet provides you with key purposes and context of this research. You can contact the The Principal Investigator (the person in charge of this research) for your questions. Read the information below before deciding whether or not to take part. The purpose of this research is to understand whether and how individual engage with information in the media including surveys and other reports. **4.Who can participate in the research? What is the expected duration of my participation? What is the duration of this research?** You can participate in the research if you are a citizen or permanent resident in Singapore and aged 21 years and above. The survey will be conducted in English. You participation is expected to take approximately 25 minutes in total (15 minutes for first survey and 10 minutes for second survey). The duration of the entire research project is approximately 12 months. **5.What is the approximate number of research participants involved?** Approximately 2400 research participants are involved. **6.What will be done if I take part in this research study?** This research is composed of two different surveys. We will contact you again about 7 to 10 days after you complete the first survey. Each of the surveys will take about 10 to 15 minutes In this first survey, after first answering a series of questions on your demographics, beliefs, attitudes, you will be asked to read some section message and then respond to a series of questions using this online survey platform. Some research designs require that the full extent of the study not be explained prior to participation. Although we have described the general nature of the tasks that you will be asked to perform, the full intent of the study will not be explained to you until after the completion of the study. In the second survey, which is shorter than the first one as explained above, you will answer similar questions such as those about your beliefs and attitudes. At the end of second survey, we will provide you with a full debriefing which will include an explanation of the hypothesis that was tested and other relevant background information pertaining to the study. You will also be given an opportunity to ask any questions you have about the hypothesis and the procedures used in the study. **7.How will my privacy and the confidentiality of my research records be protected?** Only the principal investigator and the survey company has access to your demographic information and this will not be released to any other person, including members of the research team. No

personal data will be collected from you. Your research data will be coded via your survey company ID and you will not be personally identifiable to the researcher. All data collected will be kept in accordance to the National University of Singapore's Research Data Management Policy. Research data used in any publication will be kept in secure files for a minimum of 10 years before being discarded. **8.What are the possible discomforts and risks for participants?** Discomforts and risks for participants in general are minimal and unlikely. However, in the unlikely event that you feel uncomfortable and do not want to answer some of the more personal questions such as ideology and income levels, you will be given the option of selecting "Do not want to respond" or for some questions you can progress to the next question in the survey without responding to that question. If you feel uncomfortable for questions that request a response, you can withdraw from the survey anytime without completing it. **9.What is the compensation for any injury?** Injury and compensation as a result of this research is not expected. If you follow the directions of the PI in charge of this research study and you are injured, the NUS will pay the medical expenses for the treatment of that injury. By giving your consent, you will not waive any of your legal rights or release the parties involved in this study from liability for negligence. **10.Will there be reimbursement for participation?** You will be reimbursed by the survey company as per the industry standard rate for participation in such study upon verification that you have completed the study. Note that you will get reimbursed for both surveys separately. If you accept the invitation and take the second survey, you will be reimbursed for that separately following your completion of the second survey. Note that surveys also contain attention check questions and participants will not be reimbursed if they fail to answer those questions correctly (as they will be removed from the study). **11.What are the possible benefits to me and to others?** There is no substantive direct benefit to you by participating in this research study. However, you may learn more about surveys. The knowledge gained may benefit the public in the future. The debriefing section will provide useful information for your own informational engagement. **12.Can I refuse to participate in this research?** Yes, you can. Your decision to participate in this research study is voluntary and completely up to you. You can also withdraw from the research at any time during the survey until its completion without giving any reasons, and all data collected from you will be discarded. At the very end of the survey, there is a section where you can indicate if you want to withdraw all your data as well. This process is completely anonymous as well. **13.Whom should I call if I have any questions or problems?** Please contact the Principal Investigator, Dr Ozan Kuru (via email okuru@nus.edu.sg or telephone +65 66016593) for all research-related matters and in the event of research-related injuries. You can contact the PI for your questions before agreeing to this consent form as well.

For an independent opinion specifically regarding the rights and welfare of research participants, you may contact a staff member of the National University of Singapore Institutional Review Board at telephone (+65) 6516 1234 [Mondays to Thursdays from 8.30am to 6pm, and Fridays from 8.30am to 5.30pm, except public holidays] or email at irb@nus.edu.sg.

${e://Field/id}

Consent **Consent Form** Protocol title: Understanding Digital Media and Surveys **Protocol No:** NUS-IRB-2023-781 **Principal Investigator with the contact number and organization:** Principal Investigator: Dr Ozan Kuru Department of Communications and New Media National University of Singapore okuru@nus.edu.sg: Phone: +65 66016593 **I hereby acknowledge that:** 1.I have agreed to take part in the above research. 2.I have received a copy of this information sheet that explains the use of my data in this research. I understand its contents and agree to donate my data for the use of this research. 3.I can withdraw from the research at any time during the survey until its completion, by informing the Principal Investigator, and all my data collected will be discarded. I will still be given the option to withdraw my data immediately after completing the surveys. 4.I will not have any financial benefits that result from the commercial development of this research. **Check the box to indicate your reply:**

- ○ I have read the Participant Information Sheet and **I agree to participate in this research study (proceed to study).** (1)
- ○ I do not agree to participate in this research study. (2)

Page Break

Age How old are you? Please write in numbers.

_____

Sex Are you:

- Male (1)
- Female (2)
- Other (3)

RaceSG What is your ethnicity?

- Chinese (1)
- Malay (2)
- Indian (3)
- Other (4)

Page Break

info IMPORTANT: 1. Please complete our survey **at one sitting at a quiet place.** 2. In order to proceed to the next page, **wait for the proceed button to show up**. At a few places during this survey, there is a minimum time you need to spend on a page before being able to proceed to the next session, so the proceed button will not show up immediately.

pledge Do you commit to thoughtfully provide your best answers to each question in this survey?

- ○ I will provide my best answers (1)
- ○ I will not provide my best answers (4)
- ○ I can't promise either way (5)

End of Block: ConsentDemogs

Start of Block: AttentionBooster1

Q1 This is a question to check your attention. You must select the response option that is in the middle. It is the fourth response option. It is the one between "Slightly agree" and "Slightly disagree".

- ○ Completely agree (1)
- ○ Somewhat agree (2)
- ○ Slightly agree (3)
- ○ Neither agree nor disagree (4)
- ○ Slightly disagree (5)
- ○ Somewhat disagree (6)
- ○ Completely disagree (7)

End of Block: AttentionBooster1

Start of Block: PollInterest

Q3 How interested are you in reading **survey / poll** findings?

- Not at all interested (1)
- A little interested (2)
- Somewhat interested (3)
- Very interested (4)
- Extremely interested (5)

Q4 How frequently do you read **survey / poll** findings?

- Never (1)
- Rarely (2)
- Sometimes (3)
- Frequently (4)
- Very frequently (5)

Q5 How much attention do you give to **survey / poll** findings that are mentioned in news articles or in other media?

- ○ No attention at all (1)
- ○ A little attention (2)
- ○ Some attention (3)
- ○ Considerable attention (4)
- ○ A lot of attention (5)

Q6 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: PollInterest

Start of Block: TrustinScience

TrustinScience Thinking about scientists in general, to what extent would you say that scientists in general

	Not at all true (1)	A little true (2)	Somewhat true (3)	Very true (4)	Extremely true (5)
share your values (1)	○	○	○	○	○
are competent at what they do (2)	○	○	○	○	○
are honest and trustworthy (3)	○	○	○	○	○

Page Break

Q325 Thinking about science in general, to what extent would you say that...

	Not at all true (1)	A little true (2)	Somewhat true (3)	Very true (4)	Extremely true (5)
Scientific theories are trustworthy (1)	○	○	○	○	○
Scientific methods are reliable (4)	○	○	○	○	○
Scientific findings and knowledge acquired from science are credible (5)	○	○	○	○	○
Science is a trustworthy way to understand the world we live in (6)	○	○	○	○	○

timer1 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: TrustinScience

Start of Block: AttentionBoost2

Q537 What number do you get if you add 1 and 2? In other words, what does 1 + 2 equal to? Write the correct answer as a number.

_____

Page Break

attentioncheck1 This is a question to check your attention. You must select "Always" in order to be able to continue the survey.

- ○ Never (1)
- ○ Rarely (2)
- ○ Sometimes (3)
- ○ Usually (4)
- ○ Always (5)

Page Break

warning Please **continue to read fully and carefully** to be able to complete the survey successfully. **Please complete the remaining part of this survey now, at one session.** Please proceed to the next page. Thanks a lot.

Q622 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: AttentionBoost2

Start of Block: c1

Q474
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q584 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q314 Please read **carefully** and **fully** (by scrolling down the entire page).

c1_m **The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines** According a recent survey released by KnowledgeMetrics, the majority of the public is concerned about the side effects of the COVID-19 vaccines. 58% of the respondents in the survey stated that they believe the serious side effects of the vaccine, such as having hearth problems, hospitalization and even death, are very common in the population. This shows that most of the public is very worried about the safety of COVID-19 vaccines. The survey was conducted with a convenience sample of online news consumers of the major digital news platforms in October 2023, and the response rate was 7%. The sample size of the survey was 289 adults (21 years old and older). The margin of error for this result is +/- 7 percentage points. The participants were recruited through invitations in the websites and social media accounts of digital news channels and answered the questions through an online form.

timer13 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c1

Start of Block: c2

Q475
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q585 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q476 Please read **carefully** and **fully** (by scrolling down the entire page).

c2_m **The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines** According a recent survey released by KnowledgeMetrics, the majority of the public is concerned about the side effects of the COVID-19 vaccines. 58% of the respondents in the survey stated that they believe the serious side effects of the vaccine, such as having hearth problems, hospitalization and even death, are very common in the population. This shows that most of the public is very worried about the safety of COVID-19 vaccines. The survey was conducted on a nationally-representative probability-based sample in October 2023, and the response rate was 70%. The sample size of the survey was 1537 adults (21 years old and older). The margin of error for this result is +/- 2 percentage points. The participants were recruited through address-based sampling and were interviewed either face to face or through telephones with human interviewers.

Q478 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c2

Start of Block: c3

Q479
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q586 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q480 Please read **carefully** and **fully** (by scrolling down the entire page).

c3_m **The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines** According a recent survey released by KnowledgeMetrics, the majority of the public is confident about the safety of the COVID-19 vaccines. 58% of the respondents in the survey stated that they believe the serious side effects of the vaccine, such as heart problems, hospitalization and death, are extremely rare in the population. This shows that most of the public is confident about the safety of COVID-19 vaccines. The survey was conducted with a convenience sample of online news consumers of the major digital news platforms in October 2023, and the response rate was 7%. The sample size of the survey was 289 adults (21 years old and older). The margin of error for this result is +/- 7 percentage points. The participants were recruited through invitations in the websites and social media accounts of digital news channels and answered the questions through an online form.

Q482 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c3

Start of Block: c4

Q483
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q587 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q484 Please read **carefully** and **fully** (by scrolling down the entire page).

c4_m **The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines** According a recent survey released by KnowledgeMetrics, the majority of the public is confident about the safety of the COVID-19 vaccines. 58% of the respondents in the survey stated that they believe the serious side effects of the vaccine, such as heart problems, hospitalization and death, are extremely rare in the population. This shows that most of the public is confident about the safety of COVID-19 vaccines. The survey was conducted on a nationally-representative probability-based sample in October 2023, and the response rate was 70%. The sample size of the survey was 1537 adults (21 years old and older). The margin of error for this result is +/- 2 percentage points. The participants were recruited through address-based sampling and were interviewed either face to face or through telephones with human interviewers.

Q486 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c4

Start of Block: c5

Q487
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q588 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q488 Please read **carefully** and **fully** (by scrolling down the entire page).

c5_m **The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in work, school, and healthcare settings** According a recent survey released by KnowledgeMetrics, the majority of the public supports stricter regulation of artificial intelligence (AI) technologies. 58% of the respondents in the survey stated that they believe it is very important to regulate and control how AI technologies are integrated into workplace, school and healthcare settings. Respondents highlighted that unregulated AI use could lead to problems like job losses, decline in student performance, and breach of patient privacy; therefore AI should be regulated more strictly. This shows that most of the public supports stronger regulation of AI use. The survey was conducted with a convenience sample of online news consumers of the major digital news platforms in October 2023, and the response rate was 7%. The sample size of the survey was 289 adults (21 years old and older). The margin of error for this result is +/- 7 percentage points. The participants were recruited through invitations in the websites and social media accounts of digital news channels and answered the questions through an online form.

Q490 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c5

Start of Block: c6

Q491
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q589 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q492 Please read **carefully** and **fully** (by scrolling down the entire page).

c6_m **The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in work, school, and healthcare settings** According a recent survey released by KnowledgeMetrics, the majority of the public supports stricter regulation of artificial intelligence (AI) technologies. 58% of the respondents in the survey stated that they believe it is very important to regulate and control how AI technologies are integrated into workplace, school and healthcare settings. Respondents highlighted that unregulated AI use could lead to problems like job losses, decline in student performance, and breach of patient privacy; therefore AI should be regulated more strictly. This shows that most of the public supports stronger regulation of AI use. The survey was conducted on a nationally-representative probability-based sample in October 2023, and the response rate was 70%. The sample size of the survey was 1537 adults (21 years old and older). The margin of error for this result is +/- 2 percentage points. The participants were recruited through address-based sampling and were interviewed either face to face or through telephones with human interviewers.

Q494 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c6

Start of Block: c7

Q495
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q590 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q496 Please read **carefully** and **fully** (by scrolling down the entire page).

c7_m **The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in work, school, and healthcare settings** According a recent survey released by KnowledgeMetrics, the majority of the public opposes stricter regulation of artificial intelligence (AI) technologies. 58% of the respondents in the survey stated that they believe it is not needed to regulate and control how AI technologies are integrated into workplace, school and healthcare settings. Respondents highlighted that more regulation is not needed as job losses, decline in student performance, and breach of patient privacy were minimal and benefits of AI should be maximized without restrictions. This shows that most of the public opposes stronger regulation of AI use. The survey was conducted with a convenience sample of online news consumers of the major digital news platforms in October 2023, and the response rate was 7%. The sample size of the survey was 289 adults (21 years old and older). The margin of error for this result is +/- 7 percentage points. The participants were recruited through invitations in the websites and social media accounts of digital news channels and answered the questions through an online form.

Q498 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c7

Start of Block: c8

Q499
On the next page, you will read a short section and answer some questions about it afterwards.

Please read fully, and do not refresh the page. Please proceed to the next page to start reading:

Q591 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Q500 Please read **carefully** and **fully** (by scrolling down the entire page).

c8_m **The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in work, school, and healthcare settings** According a recent survey released by KnowledgeMetrics, the majority of the public opposes stricter regulation of artificial intelligence (AI) technologies. 58% of the respondents in the survey stated that they believe it is not needed to regulate and control how AI technologies are integrated into workplace, school and healthcare settings. Respondents highlighted that more regulation is not needed as job losses, decline in student performance, and breach of patient privacy were minimal and benefits of AI should be maximized without restrictions. This shows that most of the public opposes stronger regulation of AI use. The survey was conducted on a nationally-representative probability-based sample in October 2023, and the response rate was 70%. The sample size of the survey was 1537 adults (21 years old and older). The margin of error for this result is +/- 2 percentage points. The participants were recruited through address-based sampling and were interviewed either face to face or through telephones with human interviewers.

Q502 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: c8

Start of Block: DV_polls

DVreliable How reliable do you find the survey finding you just read?

- ○ Not at all reliable (1)
- ○ A little reliable (2)
- ○ Somewhat reliable (3)
- ○ Very reliable (4)
- ○ Extremely reliable (5)

DVaccurate How accurate do you find the survey finding you just read?

- Not at all accurate (1)
- A little accurate (2)
- Somewhat accurate (3)
- Very accurate (4)
- Extremely accurate (5)

DVvalid How valid do you find the survey finding you just read?

- Not at all valid (1)
- A little valid (2)
- Somewhat valid (3)
- Very valid (4)
- Extremely valid (5)

DVcredible How credible do you find the survey finding you just read?

- Not at all credible (1)
- A little credible (2)
- Somewhat credible (3)
- Very credible (4)
- Extremely credible (5)

Q623 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

DVscientific How scientific do you find the survey finding you just read?

- ○ Not at all scientific (1)
- ○ A little scientific (2)
- ○ Somewhat scientific (3)
- ○ Very scientific (4)
- ○ Extremely scientific (5)

Q624 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: DV_polls

Start of Block: Posttest_Vax

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxRisk1 How risky do **you** think the side effects of COVID-19 vaccines are?

- Not risky at all (1)
- A little risky (2)
- Somewhat risky (3)
- Very risky (4)
- Extremely risk (5)

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxRisk2 How concerned are **you** about the side effects of COVID-19 vaccines?

- Not concerned at all (1)
- A little concerned (2)
- Somewhat concerned (3)
- Very concerned (4)
- Extremely concerned (5)

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxRisk3 How worried are **you** about the side effects of COVID-19 vaccines?

- Not worried at all (1)
- A little worried (2)
- Somewhat worried (3)
- Very worried (4)
- Extremely worried (5)

Q4 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxPercept1

Now please focus on **what other people think about the side effects of COVID-19 vaccines.**

How risky do you think **most people in the country** find the side effects of COVID-19 vaccines?

- Not risky at all (1)
- A little risky (4)
- Somewhat risky (2)
- Very risky (5)
- Extremely risky (3)

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxPercept2
Now please focus on **what other people think about the side effects of COVID-19 vaccines.**

How concerned do you think **most people in the country** are about the side effects of COVID-19 vaccines?

- ○ Not concerned at all (1)
- ○ A little concerned (4)
- ○ Somewhat concerned (2)
- ○ Very concerned (5)
- ○ Extremely concerned (3)

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxPercept3
Now please focus on **what other people think about the side effects of COVID-19 vaccines.**

How worried do you think **most people in the country** are about the side effects of COVID-19 vaccines?

- ○ Not worried at all (1)
- ○ A little worried (4)
- ○ Somewhat worried (2)
- ○ Very worried (5)
- ○ Extremely worried (3)

Q8 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

VaxPercept4

Now please focus on **what other people think about the side effects of COVID-19 vaccines.**

What portion of the general public in the country do you think is concerned about the side effects of COVID-19 vaccines?

- 9% or less (1)
- 10% to 19% (2)
- 20% to 29% (3)
- 30% to 39% (4)
- 40% to 49% (5)
- About 50% (6)
- 50% to 59% (7)
- 60% to 69% (8)
- 70% to 79% (9)
- 80% to 89% (10)
- 90% or more (11)

Q10 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Vax_Intent On a scale of 1 to 7, where 1 is "strongly unlikely" and 7 is "strongly likely", how likely is it for you to get a COVID-19 vaccine (or booster shots) in future if health authorities recommend it for your age group? Please indicate your preference as a likelihood.

- 1) Strongly unlikely (1)
- 2) (2)
- 3) (6)
- 4) Unsure (3)
- 5) (4)
- 6) (7)
- 7) Strongly likely (5)

Q12 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Vax_Overall Overall, how positive or negative do you feel towards COVID-19 vaccines?

- ○ Strongly negative (1)
- ○ Moderately negative (2)
- ○ Slightly negative (3)
- ○ Neutral (4)
- ○ Slightly positive (5)
- ○ Moderately positive (6)
- ○ Strongly positive (7)

Q625 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: Posttest_Vax

Start of Block: Posttest_AI

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Risk1 How risky do **you** think the use of artificial intelligence (AI) technologies in settings such as work, school, and healthcare is?

- ○ Not risky at all (1)
- ○ A little risky (2)
- ○ Somewhat risky (3)
- ○ Very risky (4)
- ○ Extremely risk (5)

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Risk2 How concerned are **you** about the use of artificial intelligence (AI) technologies in settings such as work, school, and healthcare?

- ○ Not concerned at all (1)
- ○ A little concerned (2)
- ○ Somewhat concerned (3)
- ○ Very concerned (4)
- ○ Extremely concerned (5)

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Risk3 How worried are **you** about the use of artificial intelligence (AI) technologies in settings such as work, school, and healthcare?

- ○ Not worried at all (1)
- ○ A little worried (2)
- ○ Somewhat worried (3)
- ○ Very worried (4)
- ○ Extremely worried (5)

Q4 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Percept1
Now please focus on **what other people think about the use of artificial intelligence (AI) in our lives.**

How risky do you think **most people in the country** find the artificial intelligence (AI) technologies?

- ○ Not risky at all (1)
- ○ A little risky (4)
- ○ Somewhat risky (2)
- ○ Very risky (5)
- ○ Extremely risky (3)

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Percept2
Now please focus on **what other people think about the use of artificial intelligence (AI) in our lives.**

How concerned do you think **most people in the country** are about artificial intelligence (AI) technologies?

- ○ Not concerned at all (1)
- ○ A little concerned (4)
- ○ Somewhat concerned (2)
- ○ Very concerned (5)
- ○ Extremely concerned (3)

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Percept3
Now please focus on **what other people think about the use of artificial intelligence (AI) in our lives.**

How worried do you think **most people in the country** are about artificial intelligence (AI) technologies?

- Not worried at all (1)
- A little worried (4)
- Somewhat worried (2)
- Very worried (5)
- Extremely worried (3)

Q8 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Percept4
Now please focus on **what other people think about the use of artificial intelligence (AI) in our lives.**

What portion of the general public in the country do you think is concerned about artificial intelligence (AI) technologies?

- 9% or less (1)
- 10% to 19% (2)
- 20% to 29% (3)
- 30% to 39% (4)
- 40% to 49% (5)
- About 50% (6)
- 50% to 59% (7)
- 60% to 69% (8)
- 70% to 79% (9)
- 80% to 89% (10)
- 90% or more (11)

Q10 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_PolicyView Would you support or oppose a policy proposal that aims to regulate more strictly the use of artificial intelligence (AI) technologies in settings such as work, school, and healthcare?

- ○ Strongly oppose regulation (1)
- ○ Moderately oppose regulation (2)
- ○ Slightly oppose regulation (3)
- ○ Neither oppose nor support regulation (4)
- ○ Slightly support regulation (5)
- ○ Moderately support regulation (6)
- ○ Strongly support regulation (7)

Q12 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

Display this question:

If How risky do you think the side effects of COVID-19 vaccines are? , Not risky at all Is Not Displayed

AI_Overall Overall, how positive or negative do you feel towards artificial intelligence (AI) technologies?

- Strongly negative (1)
- Moderately negative (2)
- Slightly negative (3)
- Neutral (4)
- Slightly positive (5)
- Moderately positive (6)
- Strongly positive (7)

Q626 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: Posttest_AI

Start of Block: manipcheck0

mc1 Please answer the following question about the story you just read **carefully**. What was the survey / poll you just read about?

- COVID-19 vaccines (1)
- Artificial intelligence (2)
- Cryptocurrencies (3)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

mc2a1 Please answer the following question about the story you just read **carefully**. What was the survey / poll you just read about?

- ○ COVID-19 vaccines (1)
- ○ History museums (2)

Page Break

Display this question:

If The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in... Displayed

Or Or The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in... Displayed

Or Or The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in w... Displayed

Or Or The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in w... Displayed

mc2b1 Please answer the following question about the story you just read **carefully**. What was the survey / poll you just read about?

- ○ Artificial intelligence (1)
- ○ History museums (2)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

mc2xa1 Please answer the following question about the story you just read **carefully**. In the survey / poll you just read, what was the finding?

- ○ The majority (58%) of the public is **CONCERNED** about the **safety of COVID-19 vaccines** (1)
- ○ The majority (58%) of the public is **CONCERNED** about **cryptocurrencies** (2)

Page Break

Display this question:

If The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

mc2xa2 Please answer the following question about the story you just read **carefully**. In the survey / poll you just read, what was the finding?

- ○ The majority (58%) of the public is **CONFIDENT** about the **safety of COVID-19 vaccines** (1)
- ○ The majority (58%) of the public is **CONFIDENT** about **cryptocurrencies** (2)

Page Break

Display this question:

If The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in... Displayed

Or Or The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in... Displayed

mc2xb1 Please answer the following question about the story you just read **carefully**. In the survey / poll you just read, what was the finding?

- ○ The majority (58%) of public **SUPPORTS** regulation of **artificial intelligence** (1)
- ○ The majority (58%) of public **SUPPORTS** regulation of **cryptocurrencies** (2)

Page Break

Display this question:

If The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in w... Displayed

Or Or The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in w... Displayed

mc2xb2 Please answer the following question about the story you just read **carefully**. In the survey / poll you just read, what was the finding?

- ○ The majority (58%) of public **OPPOSES** regulation of **artificial intelligence** (1)
- ○ The majority (58%) of public **OPPOSES** regulation of **cryptocurrencies** (2)

Page Break

Display this question:

If The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONCERNED about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

Or Or The majority (58%) of the public is CONFIDENT about the safety of COVID-19 vaccines According a r... Displayed

mc2a2 Please answer the following question about the story you just read **carefully**. In the survey / poll you just read, what was the finding?

- ○ The majority (58%) of the public is **CONCERNED** about the safety of COVID-19 vaccines (1)
- ○ The majority (58%) of the public is **CONFIDENT** about the safety of COVID-19 vaccines (2)

Page Break

Display this question:

If The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in... Displayed

Or Or The majority (58%) of public SUPPORTS regulation of artificial intelligence (AI) technologies in... Displayed

Or Or The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in w... Displayed

Or Or The majority (58%) of public OPPOSES regulation of artificial intelligence (AI) technologies in w... Displayed

mc2b2 Please answer the following question about the story you just read **carefully**. In the survey / poll you just read, what was the finding?

- ○ The majority (58%) of public **SUPPORTS** regulation of artificial intelligence (1)
- ○ The majority (58%) of public **OPPOSES** regulation of artificial intelligence (2)

Page Break

mc3_Representative How representative is the sample of the poll you just read?

- ○ Not at all representative (1)
- ○ A little representative (2)
- ○ Somewhat representative (3)
- ○ Very representative (4)
- ○ Extremely representative (5)

End of Block: manipcheck0

Start of Block: manipcheck1

c Assuming all other characteristics are the same, which of the following surveys' sample characteristics would provide the best estimate of support levels in the country for a particular policy position?

- ○ 1-) When the sample size of the poll is 5,000, half of it coming from cities and the other half of it coming from rural areas (1)
- ○ 2-) When the sample size of the poll is 10,000, and is representative of 3 big cities or districts (2)
- ○ 3-) When the sample size of the poll is 8,000, and it is a convenience non-probability sample (4)
- ○ 4-) When the sample size of the poll is 5,000, and it is a probability-based nationally representative sample (5)

Q635 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

d Which one is a methodologically stronger / more scientific survey?

- ○ A survey with a margin of error of 6 (1)
- ○ A survey with a margin of error of 2 (2)
- ○ Not sure (4)

Page Break

a Which one is a methodologically stronger / more scientific survey?

- ○ A survey with a convenience sample (1)
- ○ A survey with probability-based random sampling (2)
- ○ Not sure (4)

Page Break

mc6 What was the type of sample of the survey/poll you just read in the news story? Please write very briefly with a couple of words at most.

_____

Page Break

e How worried are you about potential misuse of and misinformation in surveys / polls?

- ○ Not at all worried (1)
- ○ A little worried (2)
- ○ Somewhat worried (3)
- ○ Very worried (4)
- ○ Extremely worried (5)

Page Break

Q632 How informative do you find social media features such as **Twitter Polls** or **Instagram Polls**?

- Not at all informative (1)
- A little informative (2)
- Somewhat informative (3)
- Very informative (4)
- Extremely informative (5)

End of Block: manipcheck1

Start of Block: manipcheck2

credible How credible do you find survey/poll findings in the media in general?

- Not at all credible (1)
- A little credible (2)
- Somewhat credible (3)
- Very credible (4)
- Extremely credible (5)

accurate How acccurate do you find survey/poll findings in the media in general?

- Not at all accurate (1)
- A little accurate (2)
- Somewhat accurate (3)
- Very accurate (4)
- Extremely engaging (5)

informative How informative do you find survey/poll findings in the media in general?

- Not at all informative (1)
- A little informative (2)
- Somewhat informative (3)
- Very informative (4)
- Extremely informative (5)

Q4 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

concern1 How risky is the possibility that surveys/polls can manipulate and mislead people?

- Not at all risky (1)
- A little risky (2)
- Somewhat risky (3)
- Very risky (4)
- Extremely risky (5)

concern2 How worried are you that surveys/polls can manipulate and mislead people?

- Not at all worried (1)
- A little worried (2)
- Somewhat worried (3)
- Very worried (4)
- Extremely worried (5)

concern3 How concerned are you that surveys/polls can manipulate and mislead people?

- Not at all concerned (1)
- A little concerned (2)
- Somewhat concerned (3)
- Very concerned (4)
- Extremely concerned (5)

Q8 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

efficacy1 How **confident are you** in understanding survey/poll findings in the media?

- ○ Not at all confident (1)
- ○ A little confident (2)
- ○ Somewhat confident (3)
- ○ Very confident (4)
- ○ Extremely confident (5)

efficacy2 How much **informed are you** in understanding survey/poll findings in the media?

- ○ Not at all informed (1)
- ○ A little informed (2)
- ○ Somewhat informed (3)
- ○ Very informed (4)
- ○ Extremely informed (5)

Q11 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

mc_for_control_w2 How informed do you feel about the game of baseball?

- ○ Not at all informed (1)
- ○ A little informed (2)
- ○ Somewhat informed (3)
- ○ Very informed (4)
- ○ Extremely informed (5)

Page Break

soup When talking about survey and polls, to explain the idea of **representative samples**, some scientists make the **comparison** to **tasting a pot of soup**. How familiar are you about this soup comparison?

- ○ Not at all familiar (1)
- ○ A little familiar (2)
- ○ Somewhat familiar (3)
- ○ Very familiar (4)
- ○ Extremely familiar (5)

End of Block: manipcheck2

Start of Block: interference

int1 In the past week, did you pay attention to any poll result reported in the media?

- ○ Not at all (1)
- ○ 1 time (2)
- ○ 2 times (3)
- ○ 3 times (4)
- ○ 4 times (5)
- ○ 5 times of more (6)

Page Break

int2 In the past week, did you read or hear any information about COVID-19 vaccines?

- ○ Not at all (1)
- ○ 1 time (2)
- ○ 2 times (3)
- ○ 3 times (4)
- ○ 4 times (5)
- ○ 5 times of more (6)

Page Break

int3 In the past week, did you read or hear any information about artificial intelligence (AI)?

- ○ Not at all (1)
- ○ 1 time (2)
- ○ 2 times (3)
- ○ 3 times (4)
- ○ 4 times (5)
- ○ 5 times of more (6)

End of Block: interference

Start of Block: Media

media1 In the past 14 days, how often have you used the following sources to get **news and information?**

	Never (1)	Once in the past 14 days (2)	Once per week (3)	2-3 times per week (4)	4-6 times per week (5)	Once every day (6)	2-3 times every day (7)	4-5 times every day (8)	More than 5 times every day (9)
Print newspapers (1)	○	○	○	○	○	○	○	○	○
TV news (2)	○	○	○	○	○	○	○	○	○
Online news websites (3)	○	○	○	○	○	○	○	○	○
Facebook (4)	○	○	○	○	○	○	○	○	○
Twitter (5)	○	○	○	○	○	○	○	○	○
WhatsApp (6)	○	○	○	○	○	○	○	○	○
Telegram (7)	○	○	○	○	○	○	○	○	○
Instagram (8)	○	○	○	○	○	○	○	○	○
YouTube (9)	○	○	○	○	○	○	○	○	○

timer6 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: Media

Start of Block: Debriefing

debrief1 **Please read the debriefing of the study and finalize the survey by clicking the submission and blue arrow at the bottom right of this page: Debriefing. IMPORTANT NOTIFICATION!** Thank you for your participation in our study, which has the full title as follows: Understanding Methods of Polls. This debriefing session is to clarify and inform you of the true nature of the study, which could not have been revealed at the start of the study because the study design requires that you remain as not fully informed about the content at the beginning in order to measure your reactions. If we had disclosed the full purpose of the study at the beginning, which involved training about polling methodology or different techniques of messaging (as explained below), it could have shaped your judgements directly in evaluating the credibility of hypothetical poll results in this current session, which would introduce validity problems to this experimental scientific research. The experimental purposes needs to be hidden until its effects are measured in this type of research. Hence, we provide more details about the full nature of the study below.
The purpose of this study is to understand whether exposure training about survey/poll methods could equip individuals to be more critical when they encounter survey results. A few different approaches are tested experimentally. These include 1) providing information about methodological details of surveys that are relevant for quality assessments, 2) including interactive quiz with response explanation, 3) warning about misuse and mis-contextualization of poor quality surveys in digital media. Participants were shown surveys with either low or high methodological quality to understand and test the effectiveness of these strategies. We were also interested whether and how your beliefs about science and numeracy skill perceptions can shape your evaluation of information about surveys.
Please note that we have shown you accurate and scientific methodological information about surveys in the training. The surveys you were shown, on the other hand, were hypothetical and not real. These surveys do not include misinformation but were hypothetically created to test your reactions in the given scenario. Please do not take these survey results as evidence of public opinion whether or not their results might be similar to contemporary poll results on these issues in the society. Example surveys/polls are regularly reported in media, as seen in the following links, which are real surveys (not hypothetical):

Example of a recent survey about misinformation beliefs in the society: [**https://www.straitstimes.com/singapore/around-one-in-four-singapore-residents-surveyed-believe-false-claim-about-covid-19-vaccine**] Example of a recent survey about issue position support levels in the society: [**https://www.channelnewsasia.com/singapore/covid-19-vaccination-making-it-compulsory-singapore-ips-study-2352781**] Please ignore the hypothetical surveys we showed you. This is an academic study and we do not show these posts to influence your beliefs and decisions. To be critical consumers of surveys in the media, please pay attention to the methodological details such as sampling type (is it representative?), sample size, margin of error, question wordings and timing of the survey. Please cross-check online information that you suspect with public authorities' recommendations and official sources whenever possible.
If you have any further queries about the study, please contact the Principal Investigator and

they will be more than happy to address any other queries that you may have about the study. If you decide to withdraw your data after going through the debriefing document, you can do it. You will still be reimbursed if you decide to withdraw after the debrief. Please contact the Principal Investigator, Dr Ozan Kuru, (via email okuru@nus.edu.sg or telephone +65 66016593) for all research-related matters and in the event of research-related injuries, or withdrawal requests. Withdrawals are possible both during submission of this page as well as afterwards.
IMPORTANT NOTIFICATION: The messages (surveys) you were shown in this study were only hypothetical. They are produced for research purposes by incorporating and editing some real examples of recent surveys. Do not take into account this information when making your judgments and decisions. Participants should not take screenshots of the messages nor share them outside of the research. These messages are for research purposes only and are not representative nor are they opinions of the research team or NUS. You may keep a record of this debriefing for your own records by taking a screenshot, a picture of the screen by another device, or copy-pasting it in a document.
Please indicate below if you want to submit your answers and finalize the survey. If, after reading this debriefing, you want to withdraw your responses from this study, you have the option to do so (click below) before closing this screen.

- ○ **CLICK HERE TO SUBMIT YOUR RESPONSES AND FINALIZE THE SURVEY** (1)
- ○ WITHDRAW MY RESPONSES (2)

End of Block: Debriefing