Wireless Radiation

Yamar Ba

Survey data concerning health effects of wireless networks.

10 Multinomial variables with 1 binary variable.

125 respondents. 119 completed.

Facts:
- Wireless radiation from wireless networks are hazardous to one's health.
- There is a law that prevents the blocking or removal of cell towers or related equipment if the reason for doing so is a related to health.
- 5G wireless networks require higher frequencies to work, which make them more harmful than 4G.

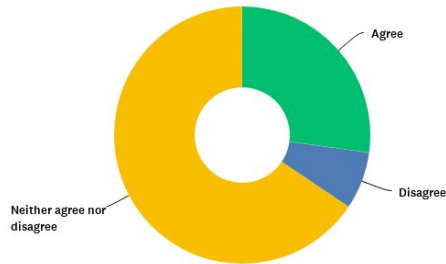Can we predict who has heard of the negative health effects of wireless radiation?
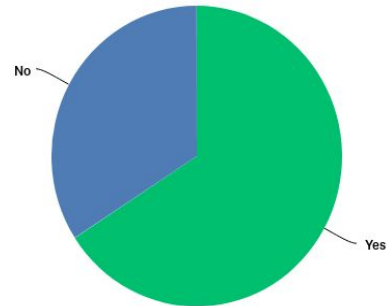
Variables

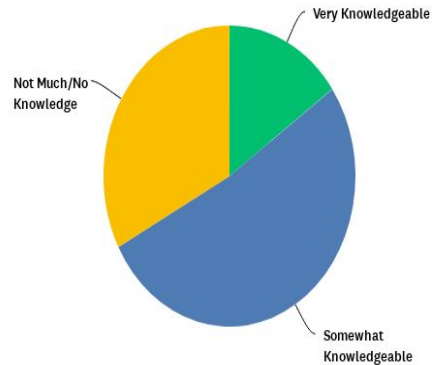Outcome: Q8   Predictors: Q2, Q3, Q4

Q3 5G will make my life better:
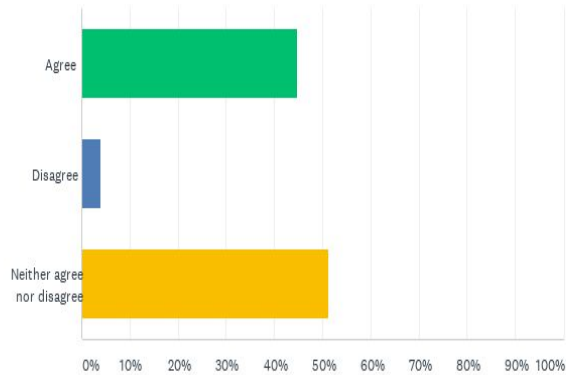
Q8 Have you ever heard of potential health risks involving wireless networks before

Q2 How would you rate your knowledge of 5G networks?

Q4 I think 5G is safer than 4G networks:

Given that you believe that you are very knowledgeable about wireless networks, the probability that you have not heard of the negative health effects of wireless networks is 87.6%

When you go from claiming to have knowledge of wireless networks to not having any knowledge the odds ratio that you have not heard of any negative health effects concerning wireless networks vs having knowledge is 8.74.

```
  Y.level term     estimate std.error statistic p.value
  <chr>  <chr>       <dbl>     <dbl>     <dbl>   <dbl>
1 no     (Intercept   0.159    0.773    -2.38    0.0174
2 no     knowledgesome 4.29    0.824     1.77    0.0770
3 no     knowledgenone 8.74    0.872     2.49    0.0130
4 no     saferdisagree 0.00004 64.7     -0.158   0.875
5 no     aferneutral   0.735   0.493    -0.624   0.532
```
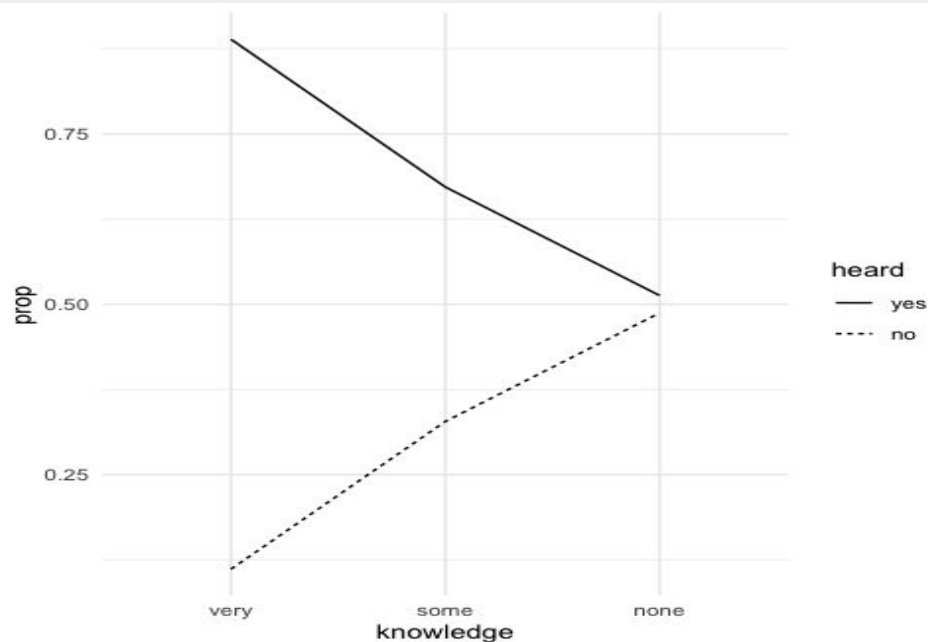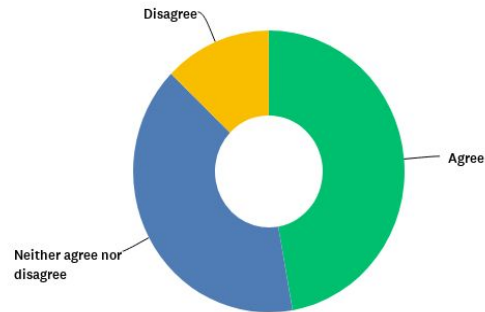
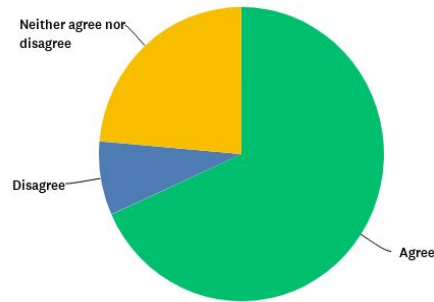Can we predict who is more likely to be concerned about wireless radiation?
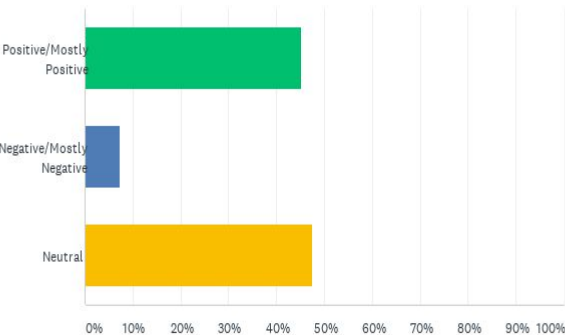
Variables

Outcome: Q10   Predictors: Q7,Q8,Q9

Q10 When you use your cellphone, tablet or laptop, you are not concerned about wireless radiation:
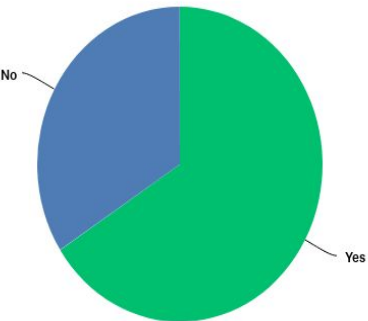

Q9 How would you categorize your opinion of 5G?

Q7 I prioritize my physical health:

Q8 Have you ever heard of potential health risks involving wireless networks before?

Given that you have a <mark>positive opinion</mark> about 5G
the probability that you are not concerned about wireless radiation
is 68.5%.
<mark>Neutral opinion</mark> -> 20.4 %
<mark>Disagree</mark> -> 11%.

When you go from having a positive opinion to a negative opinion
the odds ratio that you are concerned about your wireless radiation vs
not being concerned 9.25.

|	y.level	term	estimate	std.error	statistic	p.value
	<chr>	<chr>	<dbl>	<dbl>	<dbl>	<dbl>
1	neutral	(Intercept)	0.297	0.343	-3.53	0.000412
2	neutral	opinionnegative	5.05	0.975	1.66	0.0970
3	neutral	opinionneutral	6.53	0.455	4.12	0.00004
4	disagree	(Intercept)	0.162	0.440	-4.13	0.00004
5	disagree	opinionnegative	9.25	1.01	2.20	0.0282
6	disagree	opinionneutral	2.18	0.647	1.20	0.230
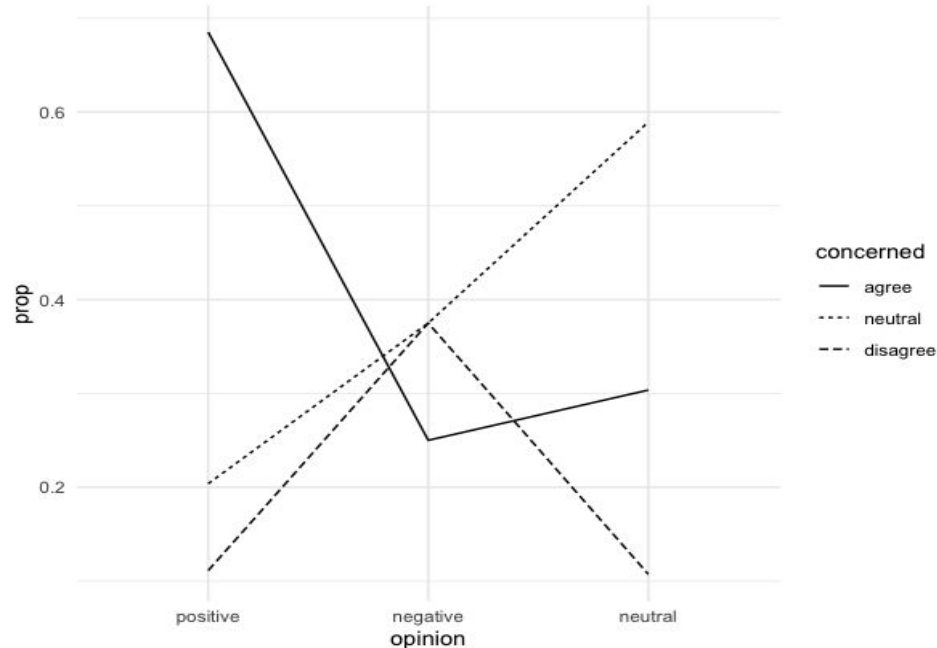
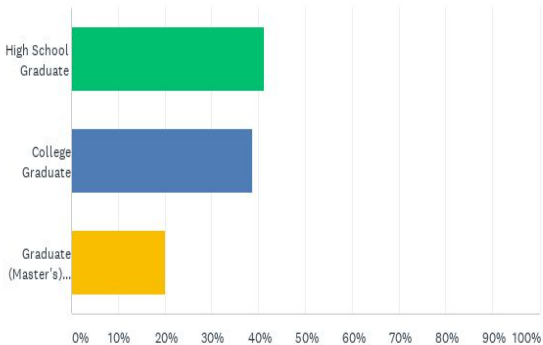Can we predict who is conscious of wireless radiation when in proximity to wireless tech?

Variables

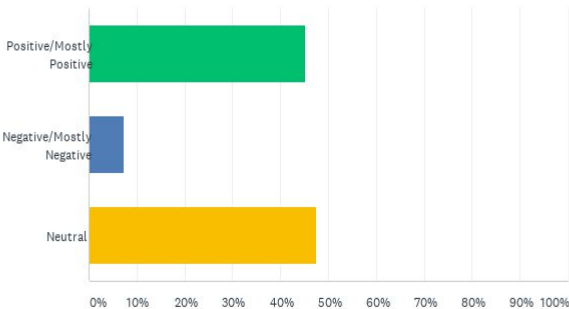Outcome: Q6   Predictors: Q1, Q2, Q9

Q6 There is no adverse health risk for using or being in proximity to wireless networks (i.e. wifi) or smart meters (smart meter: transmits usage data wirelessly):
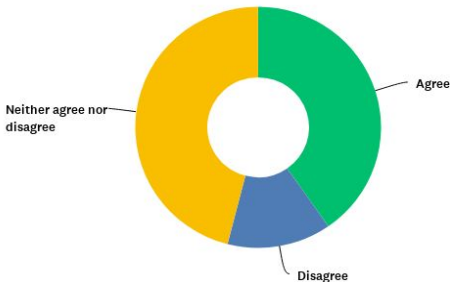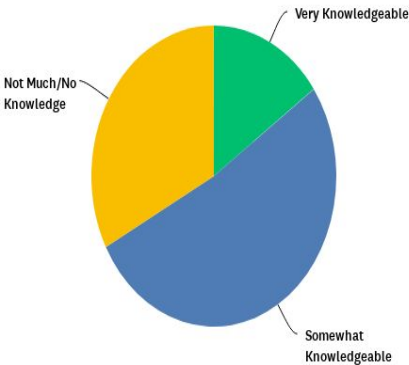

Q9 How would you categorize your opinion of 5G?

Q1 Education level reached:


Q2 How would you rate your knowledge of 5G networks?

Given that they have a positive opinion about 5G networks the probability that they believe wireless networks pose no adverse health risk is 80%.
Negative opinion -> 9.7%
Neutral opinion -> 10.7%

When you go from having a positive opinion of wireless networks to a negative one, the odds ratio that you disagree with the statement, "wireless networks pose no adverse health risk" versus agreeing with the statement is 63.2

| y.level	term	estimate	std.error	statistic	p.value
<chr>	<chr>	<dbl>	<dbl>	<dbl>	<dbl>
1 disagree	(Intercept)	0.122	0.797	-2.64	8.37e-3
2 disagree	opinionnegat…	63.2	1.27	3.27	1.07e-3
3 disagree	opinionneutr…	8.00	0.779	2.67	7.62e-3
4 disagree	knowledge2	0.536	0.848	-0.736	4.62e-1
5 disagree	knowledge3	0.879	0.925	-0.139	8.89e-1
6 neutral	(Intercept)	0.135	0.727	-2.76	5.86e-3
7 neutral	opinionnegat…	3.84	1.27	1.06	2.90e-1
8 neutral	opinionneutr…	6.09	0.479	3.78	1.60e-4
9 neutral	knowledge2	3.64	0.753	1.72	8.63e-2
10 neutral	knowledge3	6.45	0.809	2.31	2.12e-2
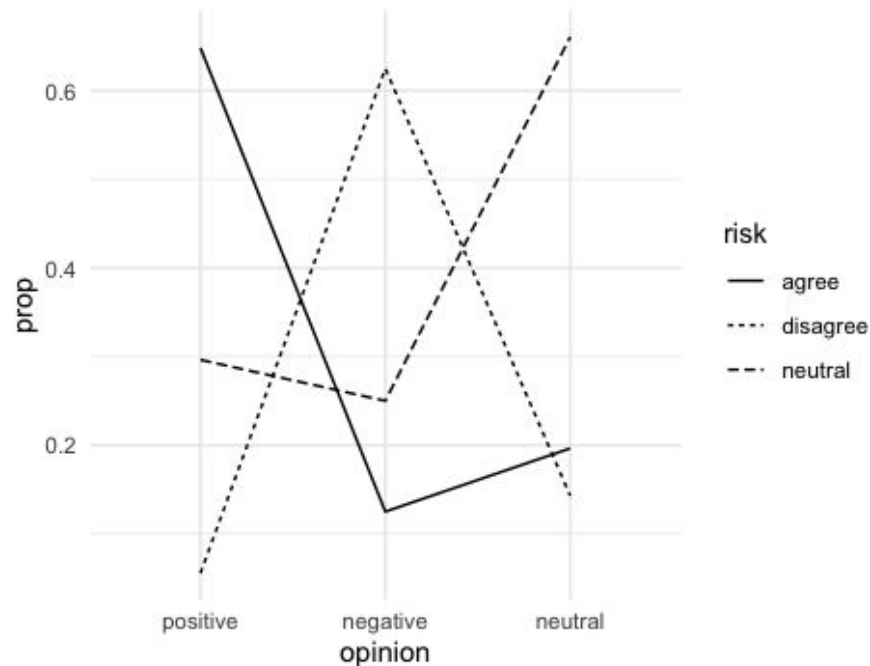
Can we predict who is more likely to believe that the government prioritizes their health?
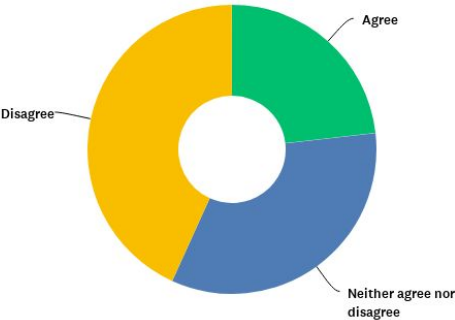
Variables

Outcome: Q11   Predictors:Q1, Q5, Q10
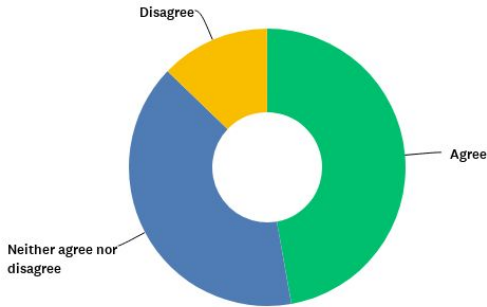
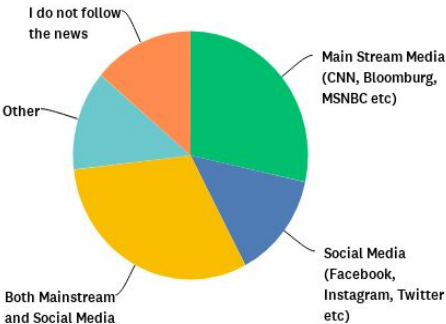### Q1 Education level reached:
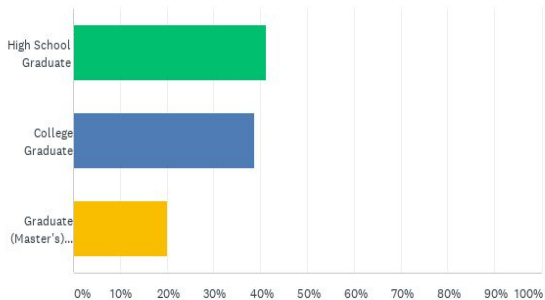
Q11 My health is a priority of my government:

Q10 When you use your cellphone, tablet or laptop, you are not concerned about wireless radiation:
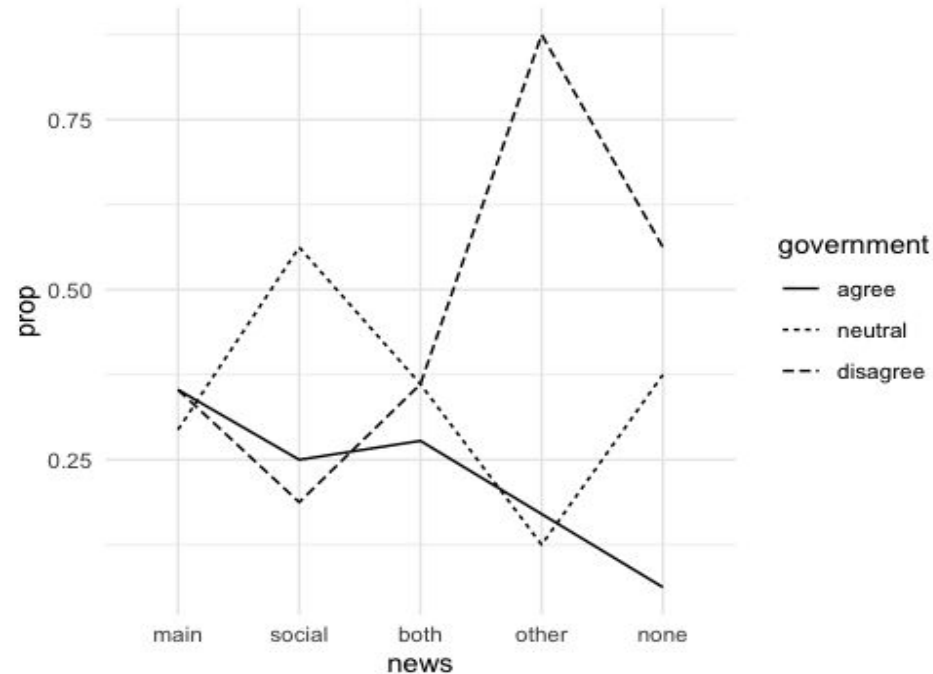

Q5 I get most my news from:

Given that they get their news from the mainstream media the probability that they agree with statement, "the government prioritizes my health" is 35%.
Disagree with statement -> 29.4%
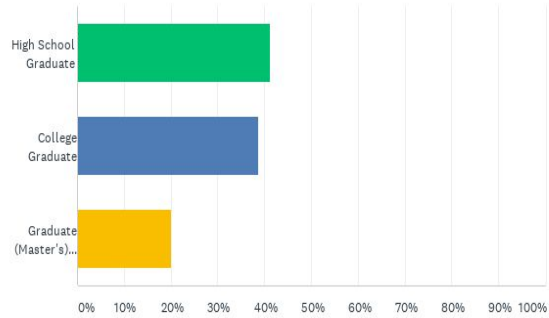Neutral -> 35.4%

When you go from getting your news from mainstream media to social media, the odds ratio that you have a neutral opinion as to whether or not you think the government prioritize your health versus agreeing with the statement is 2.70.

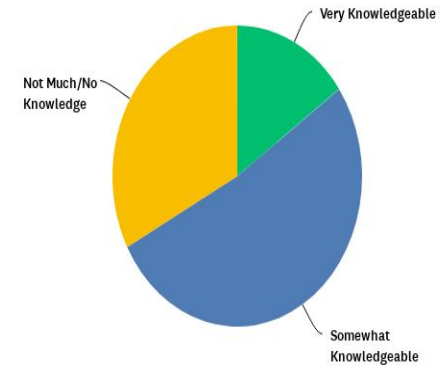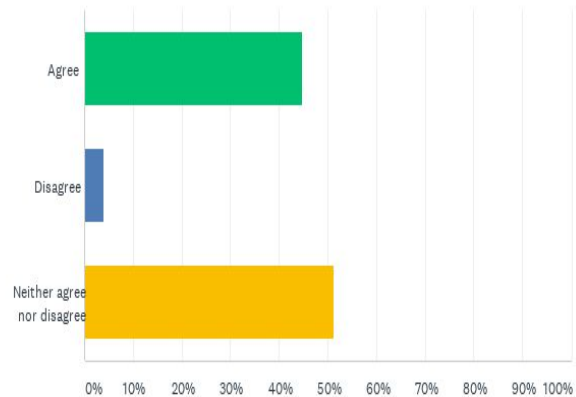|	y.level	term	estimate	std.error	statistic	p.value
	<chr>	<chr>	<dbl>	<dbl>	<dbl>	<dbl>
1	neutral	(Intercept)	0.834	0.428	-0.425	0.671
2	neutral	newssocial	2.70	0.738	1.35	0.178
3	neutral	newsboth	1.56	0.600	0.741	0.459
4	neutral	newsother	22075.	95.9	0.104	0.917
5	neutral	newsnone	7.19	1.16	1.70	0.0894
6	disagree	(Intercept)	1.00	0.408	0.000667	0.999
7	disagree	newssocial	0.750	0.866	-0.332	0.740
8	disagree	newsboth	1.30	0.586	0.448	0.654
9	disagree	newsother	128783.	95.9	0.123	0.902
10	disagree	newsnone	8.99	1.13	1.94	0.0520

Thanks! Questions?
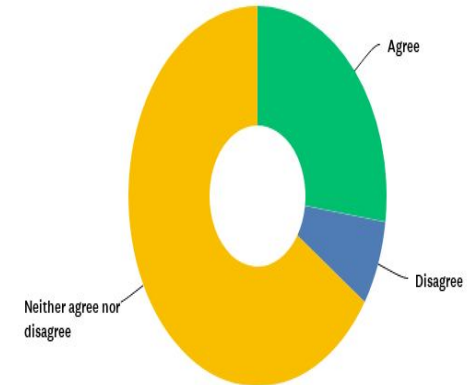
Q1 Education level reached:

Education Level	Percentage
High School Graduate	~40%
College Graduate	~38%
Graduate (Master's)...	~20%

(0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%)

Q2 How would you rate your knowledge of 5G networks?

Very Knowledgeable
Somewhat Knowledgeable
Not Much/No Knowledge

Q3 5G will make my life better:

Response	Percentage
Agree	~45%
Disagree	~3%
Neither agree nor disagree	~50%

(0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%)

Q4 I think 5G is safer than 4G networks:

Agree
Disagree
Neither agree nor disagree

Q5 I get most my news from:

- I do not follow the news
- Main Stream Media (CNN, Bloomburg, MSNBC etc)
- Other
- Social Media (Facebook, Instagram, Twitter etc)
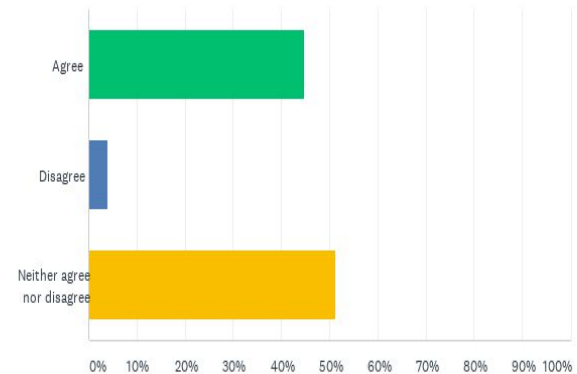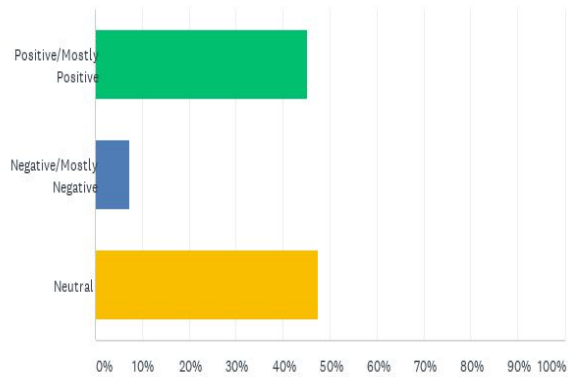- Both Mainstream and Social Media

Q6 There is no adverse health risk for using or being in proximity to wireless networks (i.e. wifi) or smart meters (smart meter: transmits usage data wirelessly):
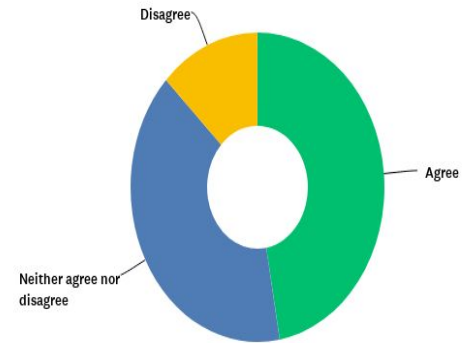

- Agree
- Neither agree nor disagree
- Disagree

Q7 I prioritize my physical health:

- Neither agree nor disagree
- Disagree
- Agree

Q3 5G will make my life better:

	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Agree											
Disagree											
Neither agree nor disagree											
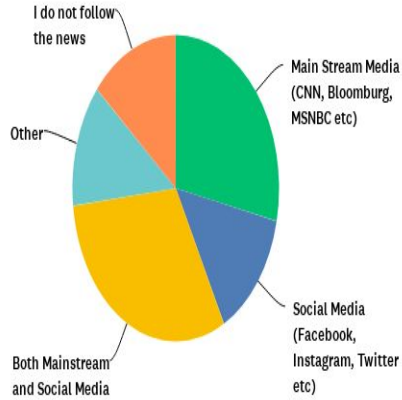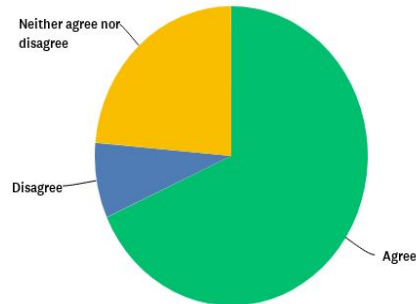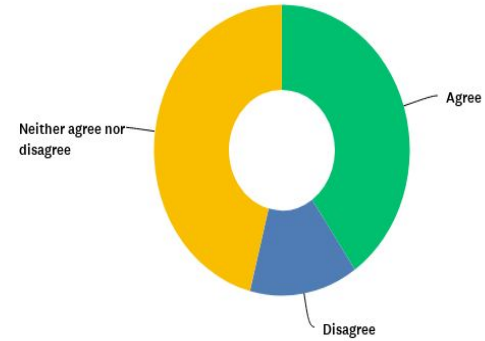
Q9 How would you categorize your opinion of 5G?

Q10 When you use your cellphone, tablet or laptop, you are not concerned about wireless radiation:

Q11 My health is a priority of my government: