

Final Project: Will Masturbation Make me Smarter?

I. STUDY QUESTION:

Will masturbation reduce an individual's IQ score more than just sitting?

II. PREDICTED OUTCOME:

I believe that masturbation will help increase an individual's IQ score more than sitting still.

III. POPULATION OF INTEREST:

Adult Islanders

IV. SAMPLING METHOD:

All the cities within the Island were grouped into their respective geographical region and 10 participants were randomly selected from each regional cluster.

V. POPULATION OF STUDY:

60 Adult Islanders

VI. DECIDING STUDY SIZE:

60 participants is a large enough number to provide accurate information and small enough to manually test each participant. Also when dividing the groups into two, 30 observations will still be a large enough to provide data.

VII. THE STUDY:

Before any testing, an IQ test is given to all participants and then recorded. Then we split the participants into 2 group of 30 random participants. The first group is asked to masturbate and the second group is asked to just sit still for 15 minutes. After each groups respective task, we ask them to take another IQ test and record their results.

VIII. TYPE OF STUDY:

Experimental Study

IX. GRAPHIC:



X. SUMMARY STATISTICS:

X	Name	Age	Gender	IQTest1
Min. : 1.00	Aaron Bernard : 1	Min. :18.0	F:30	Min. : 64.0
1st Qu.:15.75	Alexis Novak : 1	1st Qu.:24.5	M:30	1st Qu.: 95.0
Median :30.50	Amy Bernard : 1	Median :31.5		Median :107.0
Mean :30.50	Amy Durand : 1	Mean :33.8		Mean :108.0
3rd Qu.:45.25	Asuka Carrasco : 1	3rd Qu.:42.0		3rd Qu.:119.5
Max. :60.00	Ayano Takahashi: 1	Max. :59.0		Max. :149.0
	(Other) :54			
IQTest2	IQDiff	Mors	Mtotal	Stotal
Min. : 56.00	Min. : -14.000	M:30	Min. : -10.000	Min. : -14.00
1st Qu.: 89.75	1st Qu.: -8.000	S:30	1st Qu.: -7.000	1st Qu.: -8.75
Median :101.50	Median : -6.000		Median : -4.500	Median : -7.00
Mean :102.22	Mean : -5.767		Mean : -4.533	Mean : -7.00
3rd Qu.:114.00	3rd Qu.: -3.750		3rd Qu.: -3.000	3rd Qu.: -5.00
Max. :141.00	Max. : 1.000		Max. : 1.000	Max. : 0.00

XI. HYPOTHESIS TEST:

Difference of Two Means:

$$H_0: \mu_{\text{masturbation}} - \mu_{\text{sitting}} = 0$$

$$H_A: \mu_{\text{masturbation}} - \mu_{\text{sitting}} > 0$$

$$\alpha = 0.05$$

$$\mu_{\text{masturbation}} = -4.533$$

$$\mu_{\text{sitting}} = -7$$

$$t_{\text{statistic}} = 3.2233$$

$$p\text{-value} = 0.001562891$$

$p\text{-value} < \alpha$, therefore reject the null.

Conclusion: We have significant evidence that masturbation is better than sitting at increasing IQ scores.

XII. ABSTRACT:

Masturbation is a touchy subject that does not find its way into the public, yet it is a natural biological exercise. It is known that masturbation provides individuals with sexual pleasure, but what if it also affects the way the brain thinks. This experiment was conducted on 60 individuals as representative of the whole island population. We found that the mean IQ score for those who masturbated has dropped by about 4.533 and the mean IQ score for those who just sat for 15 minutes has dropped about 7. The study shows that masturbating decreases IQ scores, but not masturbating and sitting will decrease IQ scores even more. Although both activities decrease IQ scores, masturbation does increase IQ score more than sitting still.

XIII. APPENDIX

	Name	Age	Gender	IQTest1	IQTest2	IQDiff	MorS	Mtotal	Stotal
1	Aaron Bernard	36	M	122	112	-10	M	-10	-6
2	Amy Bernard Benjamin	20	F	107	101	-6	S	-2	-7
3	Bernard	34	M	119	117	-2	M	-3	-5
4	Eve Bernard Matthias	38	F	93	86	-7	S	-3	-5
5	Bernard	25	M	100	97	-3	M	-6	-8
6	Asuka Carrasco	52	F	125	120	-5	S	-7	-6
7	Barbara Carrasco Francisco	42	F	126	123	-3	M	-9	-4
8	Carrasco	35	M	109	104	-5	S	-7	-4
9	Kin Carrasco	18	M	77	71	-6	M	-5	-14
10	Louise Carrasco	21	F	149	137	-8	S	0	-7
11	Maja Carrasco	41	F	121	115	-7	M	-1	-12
12	Natalia Carrasco Takahiro	25	F	122	116	-6	S	-3	-8
13	Carrasco	46	M	101	92	-9	M	-8	-8
14	Marko Castro	32	M	125	121	-4	S	-8	-6
15	Amy Durand Benjamin	37	F	114	107	-7	M	-8	-7
16	Durand	40	M	117	113	-4	S	-1	-8
17	Dylan Durand Francisco	28	M	145	140	-5	M	1	0
18	Durand	21	M	103	89	-14	S	-4	-8
19	Gemma Durand	23	F	109	109	0	M	-7	-9
20	Holly Durand	22	F	112	105	-7	S	-3	-12
21	Kaeda Durand	20	F	142	141	-1	M	-5	-5
22	Kelly Durand	23	F	114	102	-12	S	-4	-4
23	Olivia Durand	31	F	139	136	-3	M	-5	-3
24	Pablo Durand	56	M	101	93	-8	S	-5	-11
25	Paul Durand	20	M	115	107	-8	M	-4	-9
26	Renato Durand	33	M	64	56	-8	S	-8	-7
27	Rin Durand	26	F	91	83	-8	M	-6	-9
28	Robert Durand	42	M	107	101	-6	S	1	-9
29	Shauna Durand	50	F	133	125	-8	M	-3	-3
30	Takumi Durand	39	M	111	104	-7	S	-3	-6
31	Tomas Durand	44	M	83	82	-1	M		
32	Camilia Fiala	51	F	111	103	-8	S		
33	Lea Gonzalez	38	F	113	114	1	M		
34	Daniel Kennedy	54	M	104	104	0	S		
35	Gabriela	59	F	84	80	-4	M		

Kennedy						
36	Hina Kennedy	37	F	122	114	-8 S
37	Megan Kennedy	29	F	104	97	-7 M
38	Chelsea Lopez	25	F	128	119	-9 S
39	Erik Lopez	28	M	97	94	-3 M
40	Hannah Lopez	27	F	85	73	-12 S
41	Laura Lopez	49	F	95	90	-5 M
42	Lucija Lopez	26	F	101	96	-5 S
Chealsea						
43	McCarthy	19	F	124	120	-4 M
44	Daiki McCarthy	51	M	113	109	-4 S
45	Mayu McCarthy	30	F	105	100	-5 M
Renato						
46	McCarthy	32	M	83	80	-3 S
47	Shota McCarthy	19	M	94	89	-5 M
48	Alexis Novak	51	M	103	92	-11 S
49	Justin Novak	21	M	89	85	-4 M
50	Lucija Novak	41	F	118	109	-9 S
51	Val Simon	55	M	85	77	-8 M
52	Kevin Steiner	23	M	91	84	-7 S
53	Patrick Steiner	20	M	95	89	-6 M
54	Rosalie Steiner	28	F	88	79	-9 S
55	Jakob Summers	26	M	91	92	1 M
56	Kevin Summers	46	M	103	94	-9 S
Kristina						
57	Summers	26	F	102	99	-3 M
58	Ayano Takahashi	31	F	143	140	-3 S
59	Daichi Takahashi	19	M	112	109	-3 M
60	Kin Takahashi	47	M	103	97	-6 S