Workflow: Physical Activity and Well-Being

Sofia Gil-Clavel

- Open the Data
- From the variable "PHSGAPA" (Moderate/vigorous physical activity -average/hours) drop those individuals whose content is "NOT STATED".
- Transform the variable sex (DHH SEX) into factor
- Create the variable "GROUP" by transforming "PHSGAPA" into the next categories:
 - "NOT" if they do 0 hours of exercise
 - "0%-25%" for those in the first quantile without considering those that do 0 hours of exercise.
 - "25-50" for those in the second quantile without considering those that do 0 hours of exercise.
 - "50-75" for those in the third quantile without considering those that do 0 hours of exercise.
 - "75-100" for those in the fourth quantile without considering those that do 0 hours of exercise.
- Create a table that shows the percentage of population in each "GROUP" by age-groups breaking down by sex.

80-more -	5.1	4	3.3	2.5	8.7	<u>-</u>	
75–79	2.9	4.2	3.5	2.7	6.5		
70–74 —	5.1	4.8	4.9	4.9	7.7		
65–69	6.2	6.8	7.7	7.1	8.9	_	
60–64	6.7	8	8.4	8.9	10.1	_	
55–59	7.7	7.8	8.5	9.5	10.4	_	
50–54	6.8	7.8	8.1	7.9	8.8	MA — E	
45–49	9.3	7	6	6.3	6.9	— fi 📕	
40–44	9.9	9	7	6.8	6.9	_	
35–39 —	8.4	7.2	7.2	7.8	6.3		
30–34	8.5	8.2	6.6	7.7	5.4	10	
25–29 —	7.2	6.4	7.5	7.5	4.6		
20–24	7.4	9	9.9	9.6	5.4		
15–19 —	8.8	9.9	11.5	10.9	3.2	-	
	5.0		2.2	0.0	10.0	%	
80-more -	5.6	4.4	3.9	3.9	13.8	 5	
75–79 —	4.3	4.3	4.3	4.1	7.4		
70–74 —	4.2	5.1	5.5	7	7		
65–69	6.5	7.1	8.5	8.9	8.4		
60–64	8	8.5	9.7	10.1	9	1 3	
55–59	8.3	8.5	8.5	9.9	9.6		
50–54 —	8.1	6.7	7.7	7.9	7.9	FEMALE	
45–49 —	6.6	7.2	5.2	7.2	5.8	<u> </u>	
40–44 —	7	6.5	5.6	6.3	4.7		
35–39 —	7.2	7.6	6	6.7	5.6		
30–34	9.6	8.4	8	6.3	6.3		
25–29	7.8	7.2	7	6.4	4.6		
20–24 —	8.4	9.6	9.1	7.5	5.3		
15–19 —	8.3	8.7	11	8	4.6		
	0%-25%	25%-50%	50%-75%	75%-100%	NOT		

• Transform to NA all the values in "GEN_02A2", "GEN_04", "GEN_07", and "GEN_10" that correspond to responds: "DON'T KNOW", "REFUSAL", and "NOT STATED".

Table 1: Results Liner Model

NAMES	lower	mean	upper	SE	p-value	p-value<
Sex:Female	-1.3546	-1.2545	-1.1544	0.0510510	0.0000	***
Age	-0.0941	-0.0808	-0.0675	0.0067900	0.0000	***
Satif. Life	0.0432	0.0770	0.1109	0.0172717	0.0000	***
Trob. Sleep.	-0.0220	0.0216	0.0651	0.0222102	0.3314	
Life Stress	-0.0938	-0.0395	0.0147	0.0276776	0.1531	
Sense Belong.	-0.2799	-0.2213	-0.1626	0.0299329	0.0000	***
Health	0.5083	0.5639	0.6194	0.0283423	0.0000	***

- Run a linear model where the outcome is "PHSGAPA" and the independent variables are "DHH_SEX", "DHHGAGE", "GEN_02A2", "GEN_04", "GEN_07", "GEN_10", and "GENDHDI".
- Report the results as a table (Table 1) with the coefficients and their 95% confidence intervals, standard errors, p-values, and the standard p-value< '*' coding. Also rename the variables into more descriptive names:
 - DHH_SEXFEMALE: "Sex:Female"
 - DHHGAGE: "Age"
 - GEN_02A2: "Satif. Life"
 - GEN_04: "Trob. Sleep."
 - GEN_07: "Life Stress"
 - GEN_10: "Sense Belong."
 - GENDHDI: "Health"

• Plot the results

