Article:
Laguna, L, Mingioni, M, Maitre, I et al. (11 more authors) (2016) Perception of Difficulties Encountered in Eating Process from European Elderlies' Perspective. Journal of Texture Studies, 47 (4). pp. 342-352. ISSN 0022-4901

https://doi.org/10.1111/jtxs.12192

Table 1. Description of survey participants

	N	Cat. 1	Cat. 2	Cat.3	M	F	Mean Age	Mean MMSE
Finland	86	31	27	28	24	62	81.52 ±7.30	26.38±2.69
France	101	26	36	39	20	81	84.58 ±7.30	27.26±2.18
Poland	70	28	27	15	16	54	80.8 ±6.87	26.56±2.81
Spain	77	28	24	25	22	55	83.31 ±7.12	26.25±2.64
UK	71	30	27	14	9	62	81.22 ±7.65	26.52±2.65

(Category is abbreviated as cat.; cat.1: living at home with help for food purchasing; cat. 2: living at home with help for food preparation, cat. 3: living at nursing home; MMSE: Mental State Examination test).

Number followed by (±) represent standard deviation.

Table 2. Number of participant's response per country and category to the question : Do you have *difficulties to open…?*

		Finland			France			Poland			Spain			United Kingdom			X^2 test [a] (P-value)	
Closure type		cat. 1	cat. 2	cat 3	cat. 1	cat. 2	cat 3	cat. 1	cat. 2	cat. 3	cat. 1	cat. 2	cat 3	cat. 1	cat. 2	cat 3	Country	Category
Easy open	Yes	15	11	10	11	18	19	7	10	5	12	6	3	15	10	2	4.66	0.33
	No	15	14	11	15	18	19	19	16	9	11	16	7	14	14	7	(0.324)	(0.847)
Cap	Yes	20	14	19	28	28	12	16	6	7	7	1	16	16	3	3	41.01	8.31
	No	7	13	7	8	10	16	10	9	15	15	12	14	8	6	6	(0.001)	(0.090)
Operacula	Yes	15	15	10	4	11	22	4	9	5	7	6	1	14	12	0	15.81	4.55
	No	16	8	9	22	25	11	24	18	10	15	16	6	16	14	8	(0.003)	(0.103)
Can	Yes	12	17	12	4	16	18	4	11	5	6	6	1	15	12	0	7.00	7.03
	No	19	10	9	22	19	17	24	16	9	15	15	7	14	13	7	(0.023)	(0.013)
Tin can	Yes	15	11	15	4	15	18	8	14	7	6	7	1	14	13	1	7.03	7.43
	No	16	14	7	22	20	15	20	12	4	15	13	5	15	12	6	(0.134)	(0.024)

[a]Chi-square test for independence between food packaging closure and country; and between food packaging closure and category.
Note. Food packaging closure difficulties were initially assessed in a 4 point scale (1= Yes, 2= Probably yes, 3= Probably no, 4= No), in the table has been grouped the affirmative responses (Yes and probably yes) as "Yes", and the negative responses (Probably no, and No) as "No".
Category is abbreviated as cat.; cat.1: living at home with help for food purchasing; cat. 2: living at home with help for food preparation

Table 3. Percentage of respondents perceiving difficulty to reheat meal preparation at home

	Cat. 1		**Cat. 2**			
	Yes/Probably yes	No/Probably No	Yes	Probably yes	Probably no	No
Finland	0	100	7.4	0	7.4	70.4
France	0	100	0	5.6	0	94.4
Poland	0	100	22.2	3.7	11.1	63.0
Spain	0	100	0.0	8.3	4.2	62.5
UK	0	100	3.7	3.7	7.4	85.2

(Category is abbreviated as cat.; cat.1: living at home with help for food purchasing; cat. 2: living at home with help for food preparation .N cat. 1=142; N cat. 2=141.)

Note. Reheating difficulties were assessed in a 4 point scale (1=Yes, 2=Probably yes, 3=Probably no, 4=No). As in category 1, none of the respondents give a negative answer, in the table has been grouped the

Table 4. Percentage (by categories) of elderlies who confirmed to have problem executing different actions during eating process including hand and oral actions.

ACTIONS	Category 1 (% population cat.1)	Category 2 (% population cat.2)	Category 3 (% population cat.3)	X^{2*}	p-value*
• cutting meat with a knife?	27.5	38.3	41.4	7.61	0.268
• cutting food such as pie	14.4	31.2	34.7	18.70	0.017
• cutting food as boiled potatoes	6.3	22.7	20.7	15.50	0.017
• cutting "solid foods" such as chocolate bar, bread, toasted bread with your hand	21.1	34.0	33.1	8.49	0.204
• peeling fresh fruits or vegetables, banana, green beans	11.7	24.1	29.8	19.91	0.003
• peeling fresh vegetables, apple, potato, cucumber	18.3	38.3	35.5	21.24	0.002
• penetrating food with fork	7.0	16.3	21.5	14.20	0.027
• bite with incisors fresh apple, chocolate bar	29.58	46.1	42.98	16.07	0.013
• chewing/masticating	14.79	31.09	29.75	12.07	0.060
• swallowing	7.04	17.73	24.79	11.43	0.076

Category is abbreviated as cat.; cat.1: living at home with help for food purchasing; cat. 2: living at home with help for food preparation, cat. 3: living at nursing home

*Chi-square test for independence among categories and difficulty perceived

Table 5. Influence of the teeth status on the difficulty perceived.

	Difficulty perceived executing:	
Teeth status	first bite	chewing
Complete set of teeth, bridges & implants	3.63[a] (0.81)	3.76[a] (0.66)
Natural set of teeth and false teeth	3.41[ab] (0.98)	3.68[a] (0.78)
Total false teeth (denture)	3.25[ab] (1.04)	3.53[a] (0.94)
Partial natural set of teeth	2.80[abc] (1.13)	3.26[ab] (0.95)
Partial false teeth	3.09[bc] (1.05)	3.25[ab] (1.10)
Absence of teeth and false teeth	2.55[c] (1.44)	2.73[b] (1.42)

Values in parentheses are standard deviations. Means in the same column with the same letter do not differ significantly ($p>0.05$) according to Tukey's test.

Note. Difficulty perceived was assessed in a 4 point scale (1= Yes, 2= Probably yes, 3= Probably no, 4= No)