

FAT CONTENT IN FINELY COMMINUTED COOKED AND LIVER SAUSAGES ON SERBIAN RETAIL MARKET

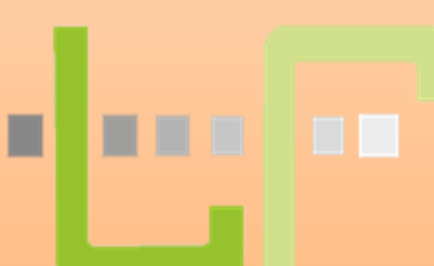
Miloš ŽUPANJAC^{1,*}, Tatjana PEULIĆ¹, Jovana DELIĆ¹, Predrag IKONIĆ¹, Jasmina LAZAREVIĆ¹,
Snežana ŠKALJAC², Marija JOKANOVIĆ²



¹ University of Novi Sad , Institute of Food Technology, Bulevar cara Lazara 1, 21000 Novi Sad, Serbia

² University of Novi Sad , Faculty of Technology Novi Sad, Bulevar cara Lazara 1, 21000 Novi Sad, Serbia

*e-mail: milos.zupanjac@fins.uns.ac.rs



INTRODUCTION

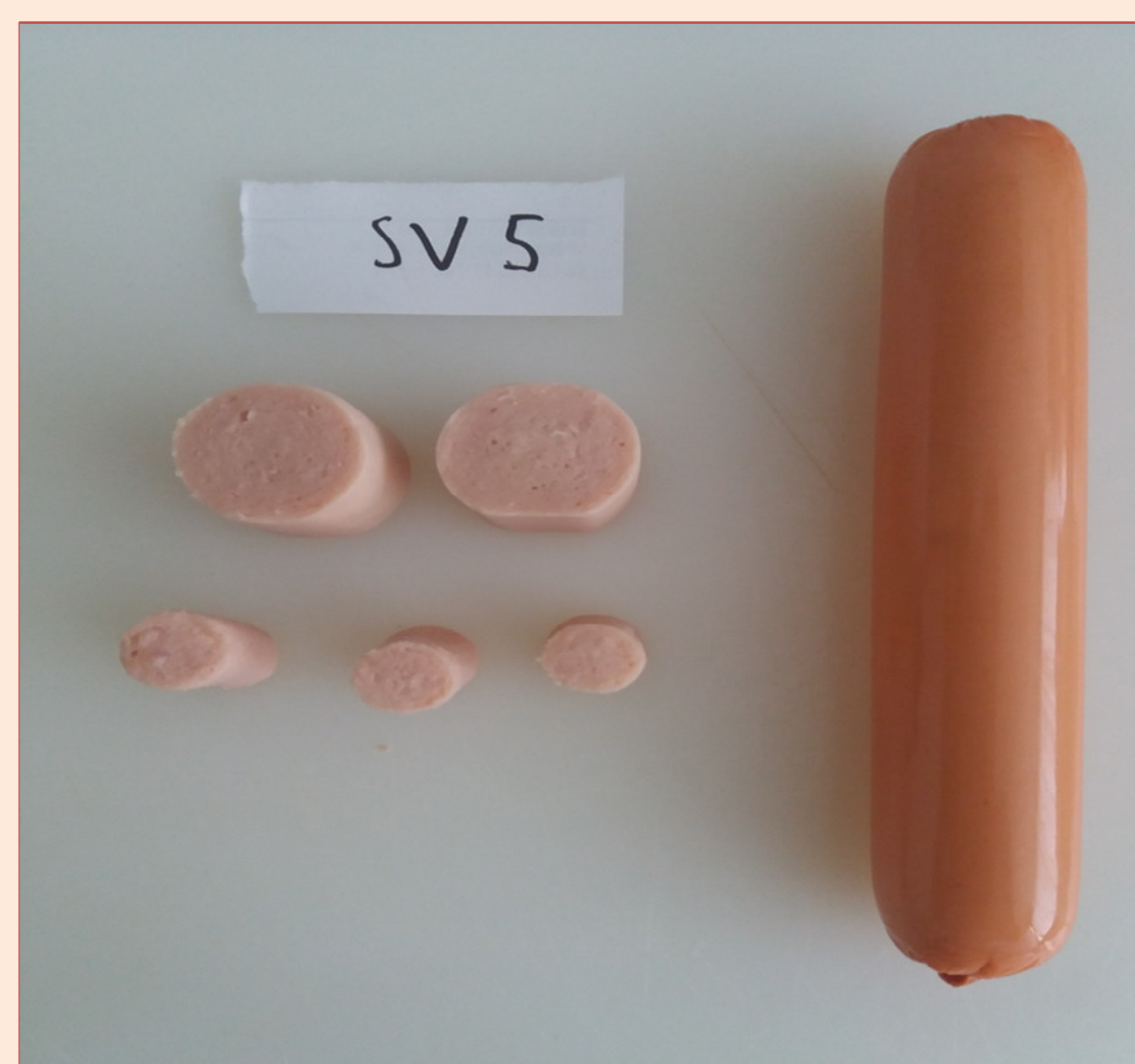
- Finely comminuted cooked sausages and liver sausages are among the most popular meat products worldwide. These meat products have a high content of fat that is required for sensory perception of juiciness, flavor and texture. However, fat from meat and meat products contain high amount of saturated fatty acids, which are frequently recognized as dietary elements that may contribute to the development of chronic noncommunicable diseases. Consequently, high fat content, typically 20–30% in finely comminuted cooked sausages and up to 40% in some liver sausages/pates, may be perceived negatively by consumers, as consumers nowadays become more aware of the link between food and health.

MATERIAL AND METHOD

- The aim of this paper was to conduct a comparative analysis of the fat content in total of 34 meat samples produced by 14 most represented meat producers on the Serbian retail market.
- Twenty one (n=21) sample belonged to a group of finely comminuted sausages (11 were chicken hot dogs and 10 pork hot dogs) and thirteen (n=13) samples belonged to a group of liver sausages.

RESULTS AND DISCUSSION

- Fat content in the finely comminuted cooked sausages ranged from 13.5 to 20.9 g/100 g.
- Fat span in chicken hot dogs was from 13.5 to 20.7 g/100 g, while in pork hot dogs from 15.5 to 20.9 g/100 g.
- The largest group of pork hot dogs (40%) was characterized by fat content of 16-17 g/100 g, while two groups of 20% of samples contained between 15-16 g/100 g and 20-21 g/100 g fat share. Fat content between 17-18 and 19-20 g/100 g were detected in two groups of 10% of samples.
- The fat content in the examined samples of liver sausages varied from 22.1 to 32.0 g/100 g.



Groups of sausages	Pork hot dogs	Chicken hot dogs	Liver sausages
	Total Fat (g/100g)		
1.	16.2	18.9	22.2
2.	15.6	13.5	30.7
3.	20.4	13.7	23.1
4.	20.9	18.9	23.4
5.	16.8	18.2	22.1
6.	15.5	14.8	24.6
7.	16.0	14.8	32.0
8.	19.7	16.9	23.1
9.	17.3	19.2	25.4
10.	16.1	20.7	25.5
11.	-	16.0	25.9
12.	-	-	22.3
13.	-	-	23.9

CONCLUSION

The fat content of finely comminuted cooked sausages and liver sausages produced by the 14 represented meat producers on the Serbian retail market was consistent with literature data and represents normal fat contents in that type of meat products. As the most current dietary guidelines recommend keeping relative fat intake to 30% of total daily energy, meat processors can think about the reducing fat content.

Key words: fat content, finely comminuted sausages, liver sausages.

Acknowledgment: The authors wish to express their sincere gratitude to the Ministarstvo nauke, tehnološkog razvoja i inovacija of the Republic of Serbia for its financial support (Agreement no.: 451-03-47/2023-01/200222).