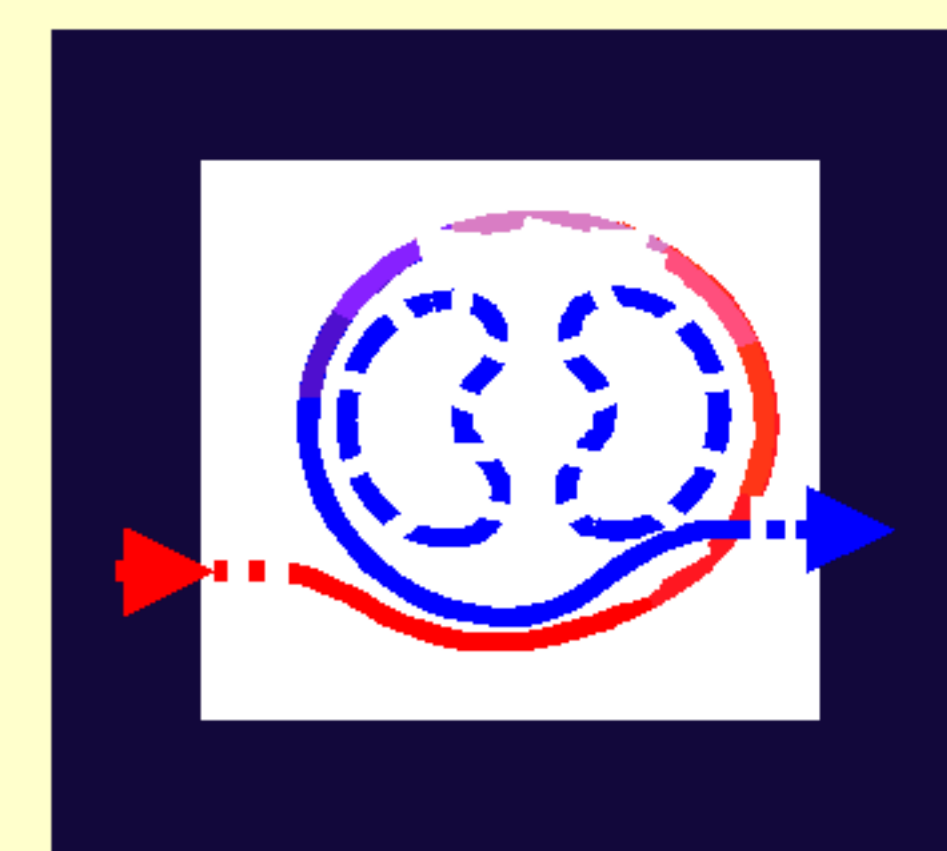


The usage of drugs including nonsteroidal anti-inflammatory drugs (NSAIDs) in patients with chronic kidney disease (CKD).



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OBJECTIVES

The avoidance of NSAIDs is recommended for most individuals with CKD. The aim of presented study was to characterize patterns of drugs use including NSAID among persons with CKD in Gdańsk Nephrology Center in Poland.

METHODS

A total of 888 adult participants of the cross-sectional study responded to a questionnaire regarding their use of drugs.

RESULTS

General characteristic of the study group is in the table 1.

The most common comorbidities were hypertension (71%), heart failure/ischemic heart disease (26,2%), diabetes (22,9%) and rheumatic disease (22,3%). The most often drugs used by our patients were: hypotensive agents (67,5%), vitamins (32,8%), statins (27,8%). The average number of drugs received per day was 5.

Number of used drugs per day in the study group - (details on fig.1)

53,5% of participants used NSAIDs available over-the-counter without a doctor's consultation. The main causes of using NSAIDs were: bone and joint pains (25,6%), headache (25,6%), infection (14,4%) and stomachache (5,4%).

The frequency of using NSAIDs in the study group - (details on fig 2).

24,2% were aware of side effects of NSAIDs. The rest of the study group (75,8%) did not know the side effects or did not answer to this question. Current use (nearly every day for 30 days or longer) of any NSAIDs was reported by 5,3%. 10,1% of the studying population used NSAIDs at least once a week. 7,5% used at least two different of NSAIDs simultaneously.

The time of CKD was connected with using higher number of drugs ($p < 0,05$) and the frequency of NSAIDs usage was connected with the number of using all drugs ($p < 0,05$).

Table 1 General characteristic of the study group.

	unit	value
Amount of participants	-	888
Gender F/M	-	417/471
Average age	years	54,71
Time of control in Nephrological Outpatient Clinic	years	9,61
Average time of chronic kidney disease	years	13,9
Average level of serum creatinine	mg/dl	1,7
Average level of eGFR	ml/min	42,69

Figure 1 Number of used drugs per day in the study group.

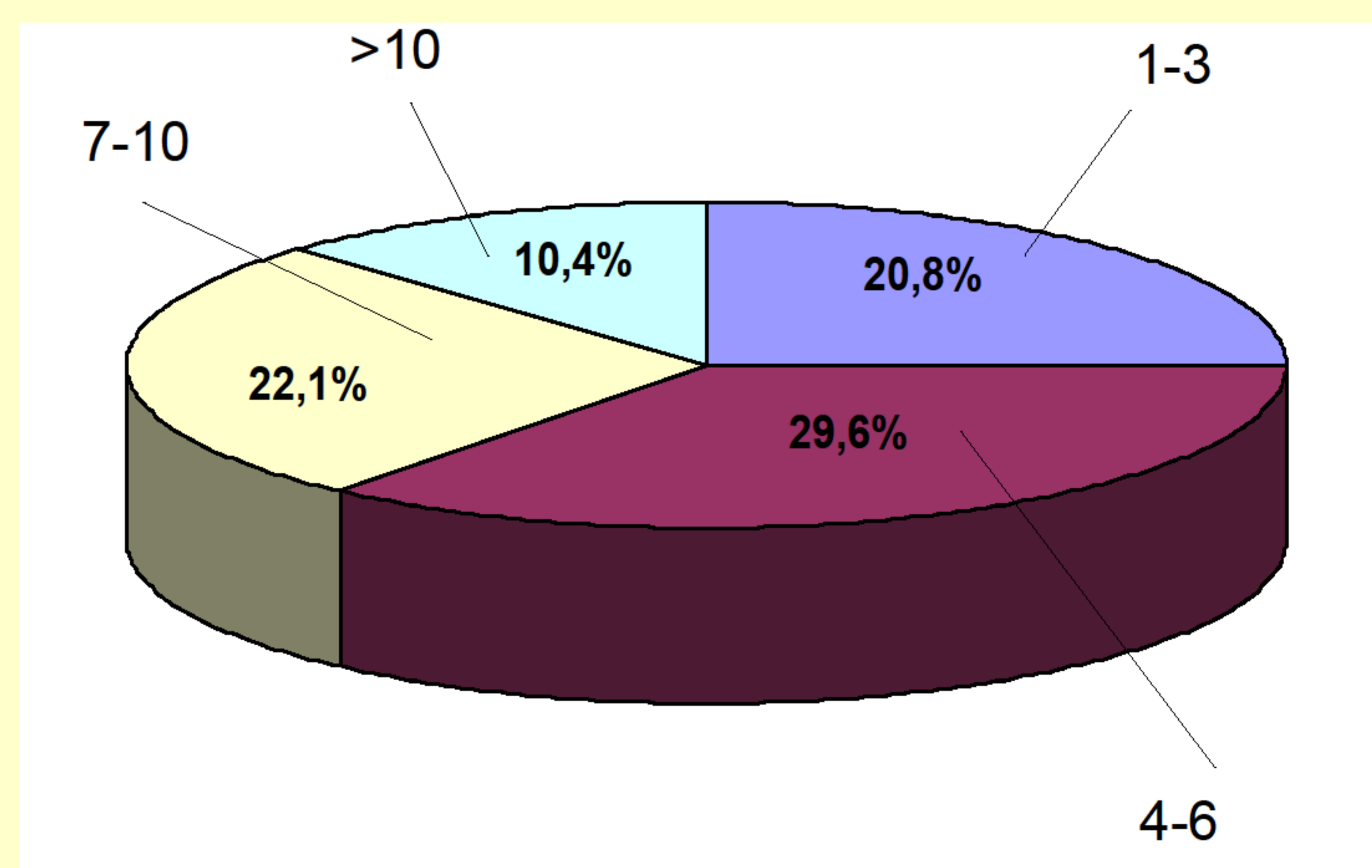
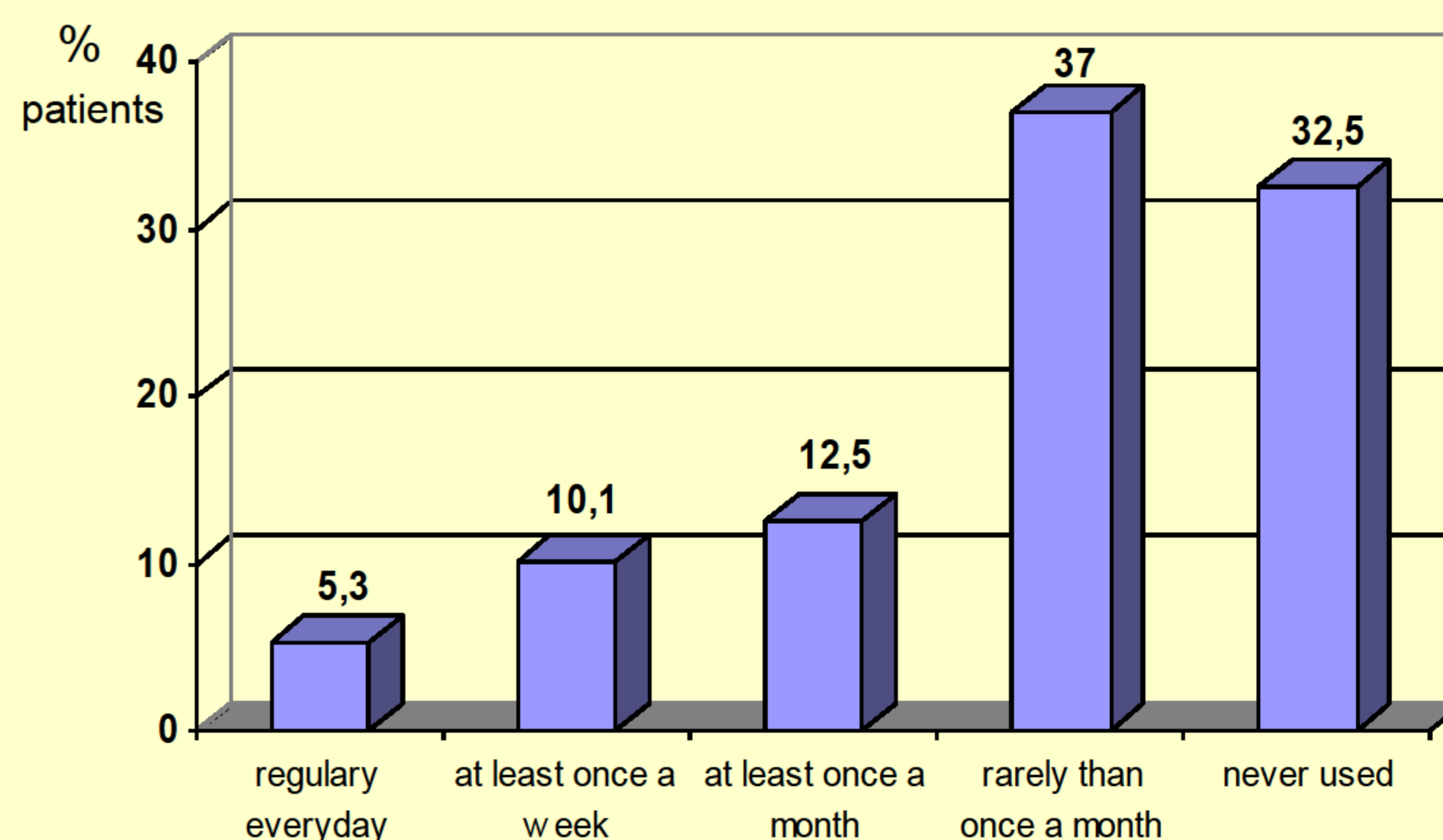


Figure 2 The frequency of using NSAIDs in the study group.



CONCLUSIONS

1. Patients with CKD use a large amount of drugs.
2. Most of them use NSAIDs often or very often without being aware of side effects of them.
3. It is necessary to systematically repeat the patient's education concerning potential side effects of drugs.

