

Sabrina N. Livezey, PharmD CSP¹ | Rebekah Finley, PharmD candidate | Nisha B. Shah, PharmD¹ | Ryan Moore, MS³ | Leena Choi, PhD³ | Autumn D. Zuckerman, PharmD CSP¹ | E. Danielle Bryan, PharmD CSP¹
¹Vanderbilt Specialty Pharmacy, Vanderbilt University Medical Center; ²Lipscomb University College of Pharmacy; ³Department of Biostatistics, Vanderbilt University Medical Center

BACKGROUND

- Patient reported outcomes (PROs), a measurement of any aspect of a patient's health status that comes directly from the patient, are useful in assessing patient response to therapy and need for therapeutic adjustments.¹
- Vanderbilt Specialty Pharmacy assesses PROs through monthly refill questionnaires (MRQs), which guide pharmacist interventions.²
- Identifying the correlation between PROs and pharmacist interventions can help improve the allocation of resources.

STUDY OBJECTIVE

To assess PROs in neurology specialty disease gathered via MRQs within an integrated care center

METHODS

- DESIGN** Single-center retrospective analysis
- INCLUSION** All patients prescribed a neurology specialty medication by center's outpatient neurology clinics with:
- 2+ fills through the center's specialty pharmacy, and
 - 2+ MRQ responses from Jan – March 2020
- OUTCOMES**
- Patient-reported missed doses
 - Patient-reported adverse effects
 - Patient-reported medication effectiveness
 - Specialty pharmacist interventions

RESULTS

TABLE 1. Cohort demographics (n=168)

	n (%)
Age, years, median (IQR)	51 (18-72)
Gender, male	95 (57)
Race	
White	150 (89)
Black or African American	15 (9)
Other Asian	3 (2)
Insurance type	
Medicare	83 (49)
Medicaid	48 (29)
Commercial	29 (17)
Tricare	8 (5)

RESULTS

FIGURE 1. Neurology specialty medications

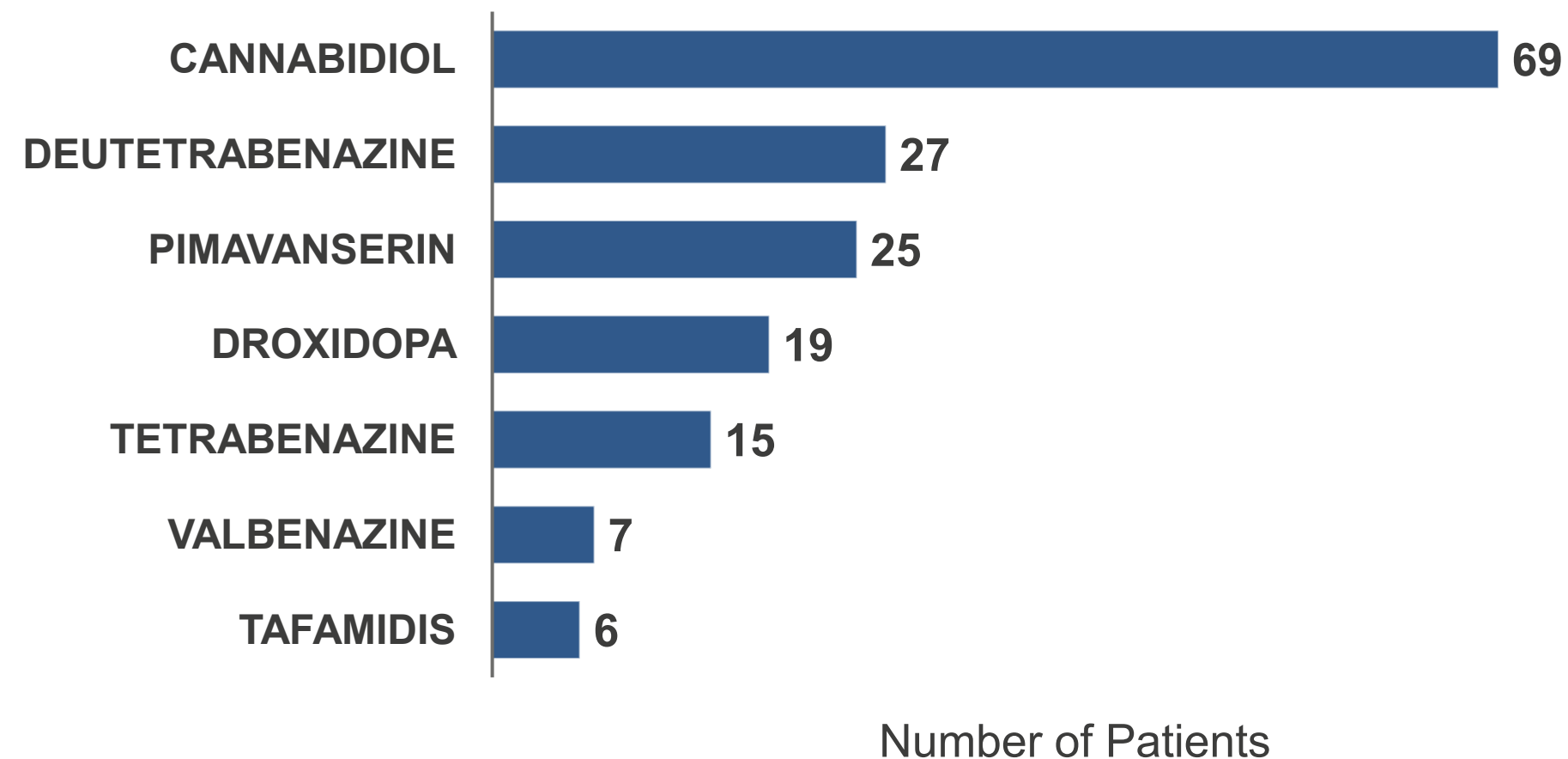


FIGURE 2. Patient-reported reasons for missed doses (n=19)

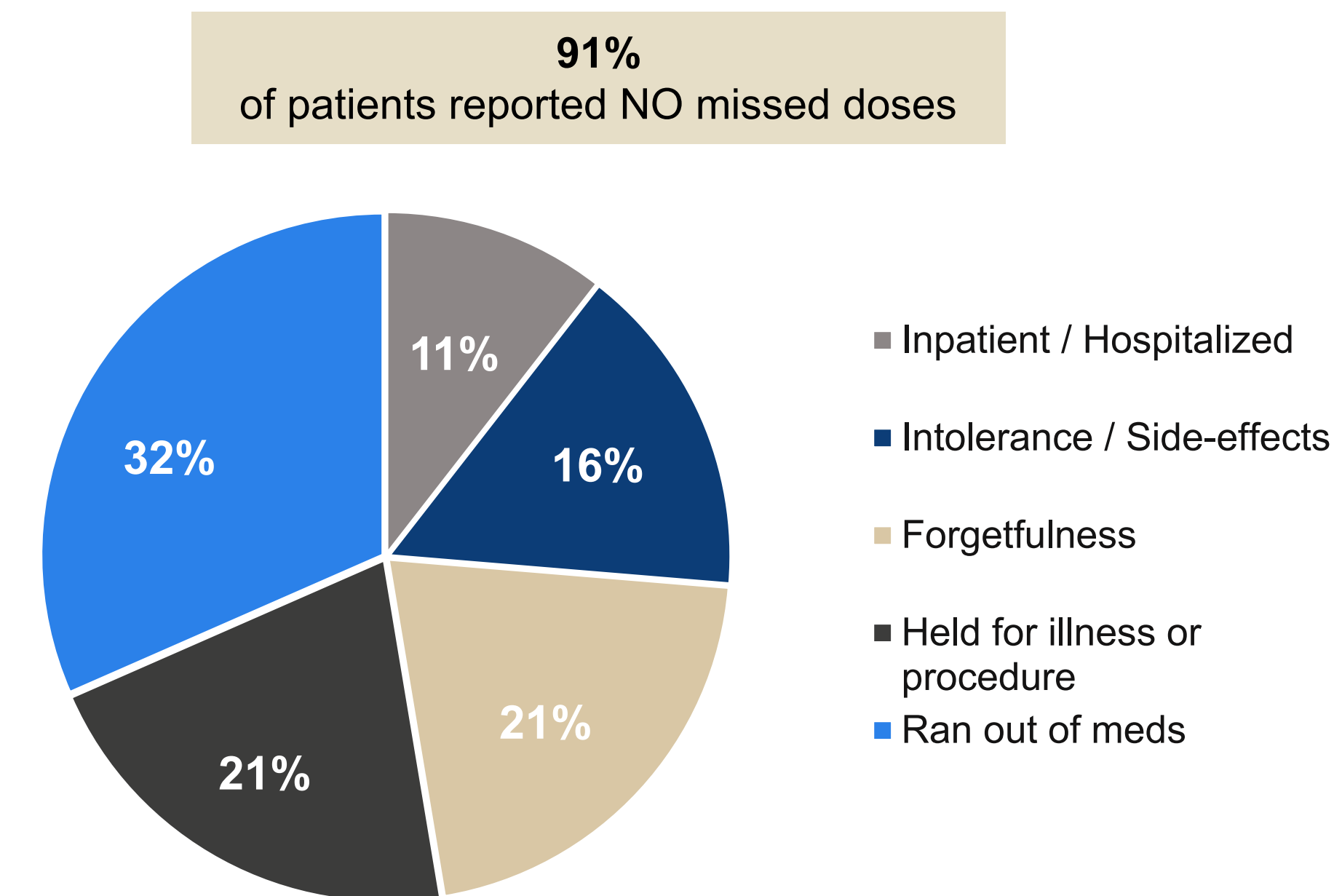


FIGURE 3. Patient-reported adverse events (n=9)

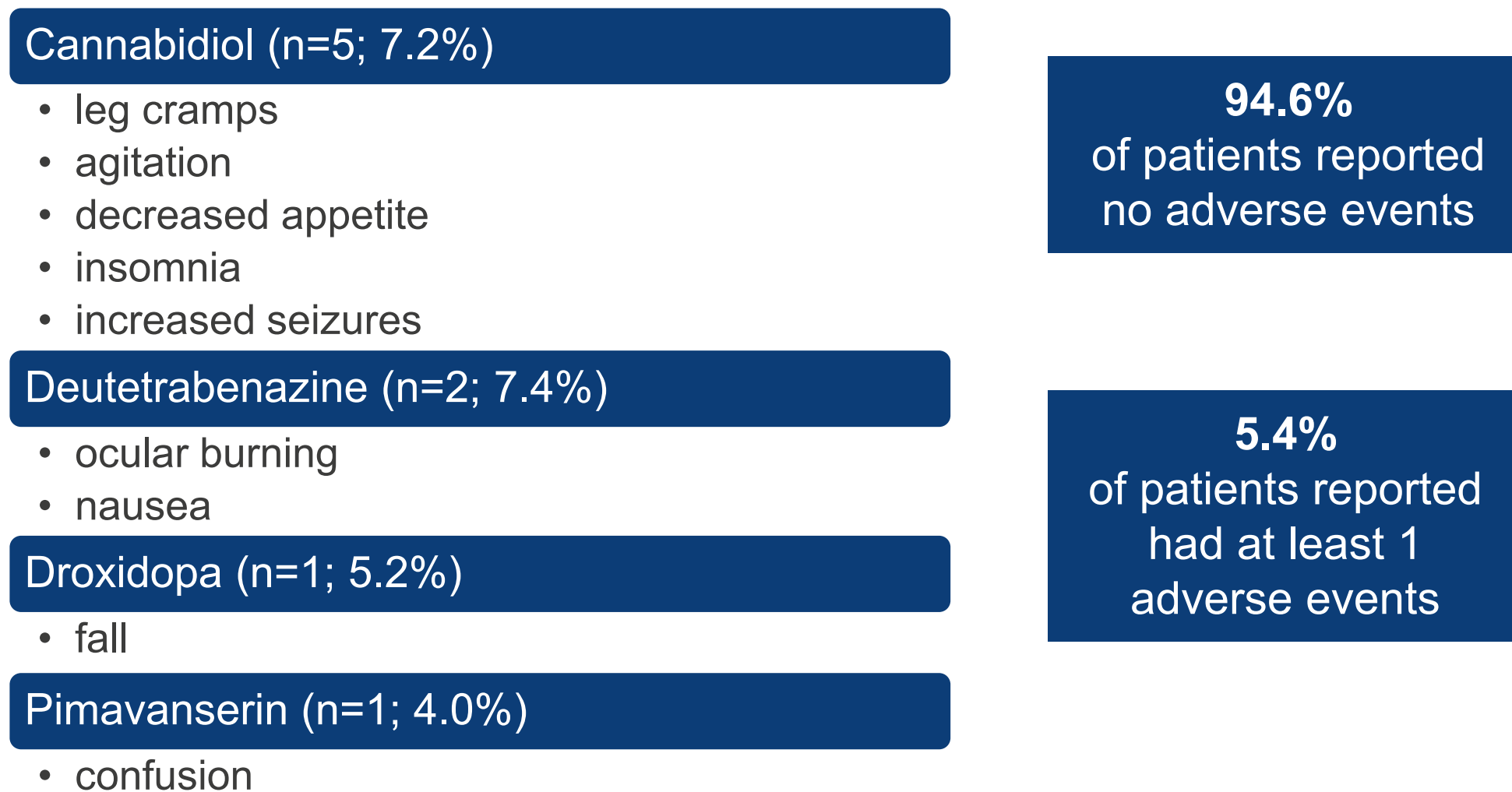


FIGURE 4. Patient-reported medication effectiveness (n=499)

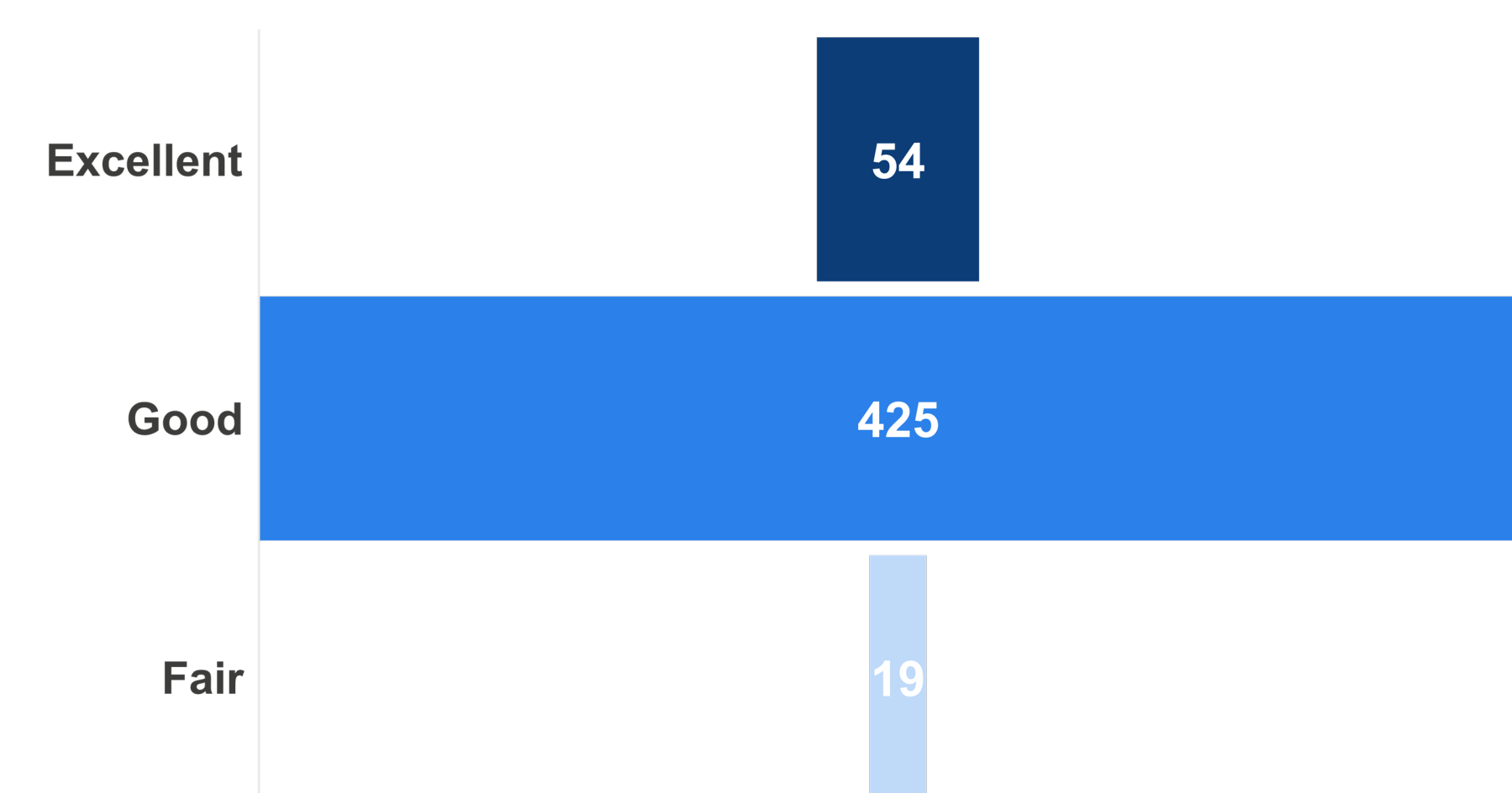
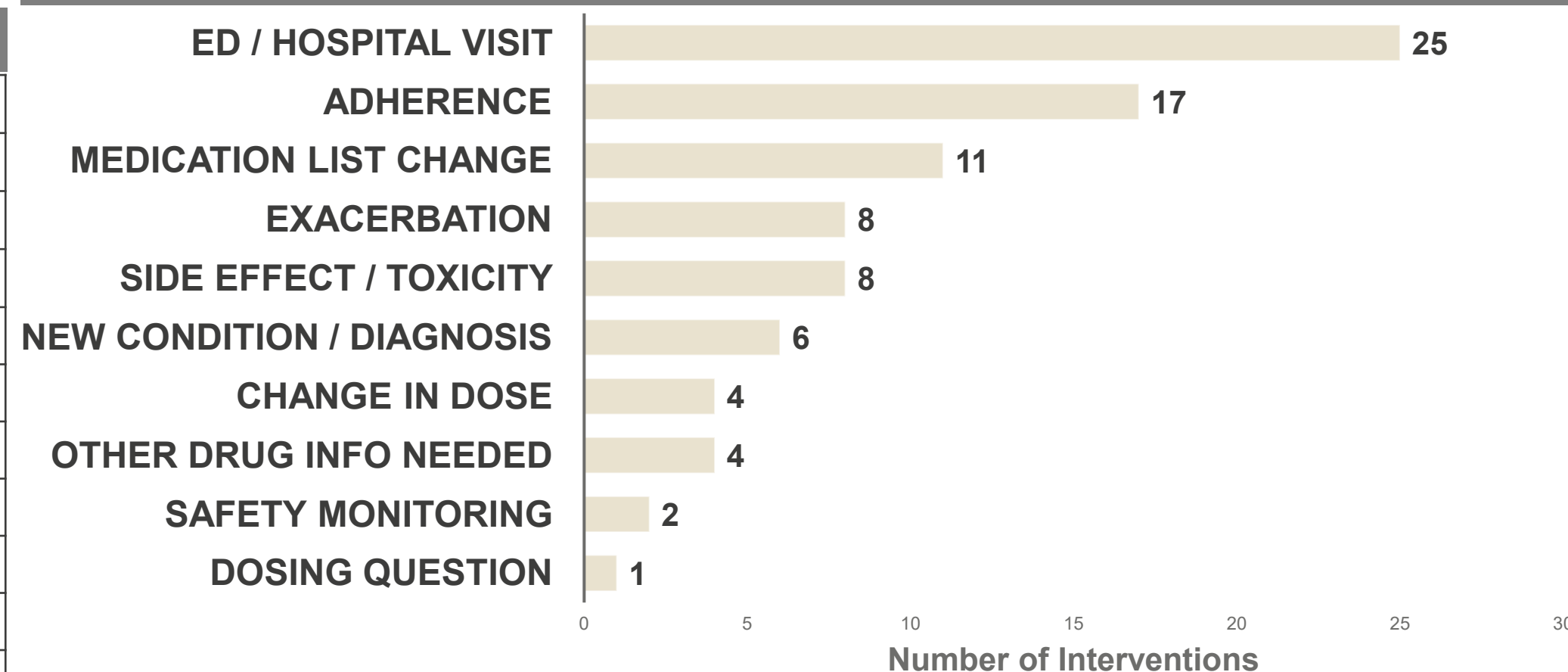


FIGURE 5. Specialty pharmacy interventions (n=86)



Number of interventions per patient: 67% had 0, 24% had 1, 8% had 2, 1% had 3.

CONCLUSIONS

- There was a high rate of patient-reported adherence at 91%. Of the patients that reported a missed dose, the majority was due to running out of medications. This could be from a variety of reasons including but not limited to unpreparedness, forgetting to order refills, or not picking up their refills.
- Neurology integrated specialty pharmacists perform targeted interventions to ensure safe and effective medication use, with most of the interventions addressing recent emergency department or hospital visits.

1. Lavalley DC, Chenok KE, Love RM, et al. Incorporating Patient-Reported Outcomes Into Health Care To Engage Patients And Enhance Care. Health Aff (Millwood). 2016;35(4):575-582.

2. AMCP Partnership Forum: Improving Quality, Value, and Outcomes with Patient-Reported Outcomes. J Manag Care Spec Pharm. 2018;24(3):304-310.