

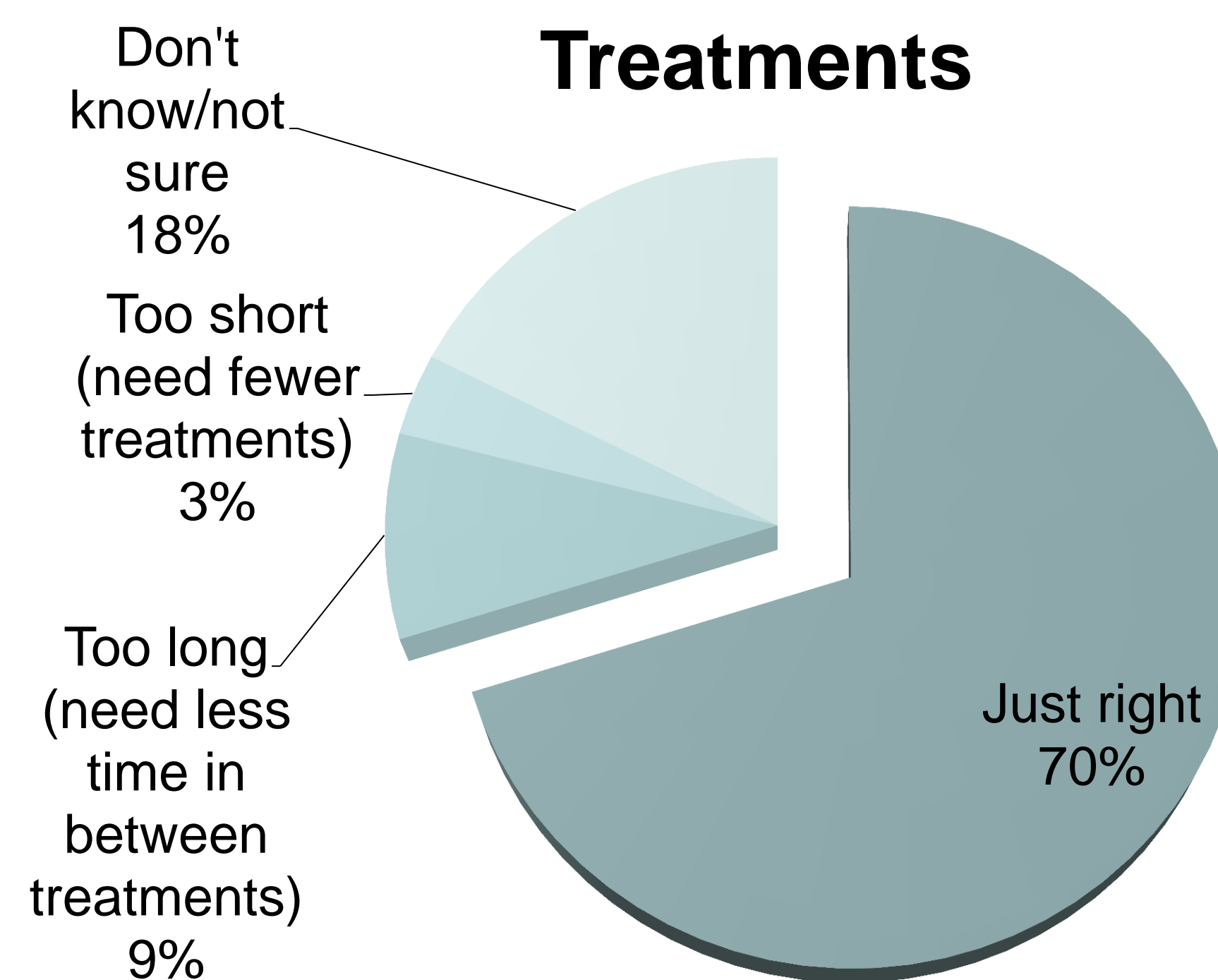


Department of Pathology, University of New Mexico, Albuquerque, New Mexico

RESULTS

- | Demographic | Number (%) |
|----------------------------|-------------------|
| Total number of patients | 9 (100%) |
| Total number of treatments | 58 |
| Female Patients | 5 (56%) |
| White, non-Hispanic | 6 (67%) |
| Median age | 54 |
| Frequency of treatments | 3/week to 1/month |
| Clinically stable patients | 5 |

Time Interval Between Treatments



A 3D pie chart illustrating the distribution of symptoms reported by patients. The chart is divided into eight segments of varying sizes and colors, with labels and percentages for each. The largest segment is 'Breathing/chest pain' at 46%, followed by 'Large muscle weakness' at 31%. Other symptoms include 'Double vision' (3%), 'Talking' (5%), 'Choking/swallowing' (6%), 'Fatigue' (6%), 'Chewing' (3%), and 'Double vision' (3%).

Symptom	Percentage
Breathing/chest pain	46%
Large muscle weakness	31%
Double vision	3%
Talking	5%
Choking/swallowing	6%
Fatigue	6%
Chewing	3%
Double vision	3%

- Active pharmacotherapy included prednisone, azathioprine, mycophenolate, rituximab, and pyridostigmine.
- All patients reported that lengthening the interval between successive TPE treatments, even by a few days, resulted in noticeable MG changes.
- During the study period, 4 patients (44%) had significant changes identified by the MG-ADL, a mean of 5.5 times per patient (range 2-8) and 2 (22%) had significant changes identified by the MG-QoL15r, a mean of 2 times per patient (range 1-3).
- MG-ADL appeared to be more sensitive in correlating with patient-reported clinical changes, with clinical improvements identified a mean of 3.2 times per patient and clinical deteriorations identified a mean of 2.3 times per patient (compared to 1.5 and 1 times per patient, respectively, for the MG-QoL15r; $p=0.03$ for interaction effect).
- **Subjective clinical deteriorations were correlated with objectively worsening MG-ADL scores, and was used as evidence to medically justify intensification of TPE therapy.**

CONCLUSIONS

- Objective longitudinal assessments in MG patients receiving long-term TPE may be helpful for accurate disease monitoring.
- A subset of MG patients receiving long-term TPE still has dynamic changes in disease status as assessed by clinical history and two different validated instruments.
- In all patients with stable MG, both the MD-ADL and MG-QoL15r accurately indicated no significant changes.
- In patients with fluctuating disease status, MG-ADL was more sensitive to both clinical improvement and worsening.
- These findings need to be validated in larger studies.