

# EUROCRINE Benchmark Report on Operations for Primary Hyperparathyroidism

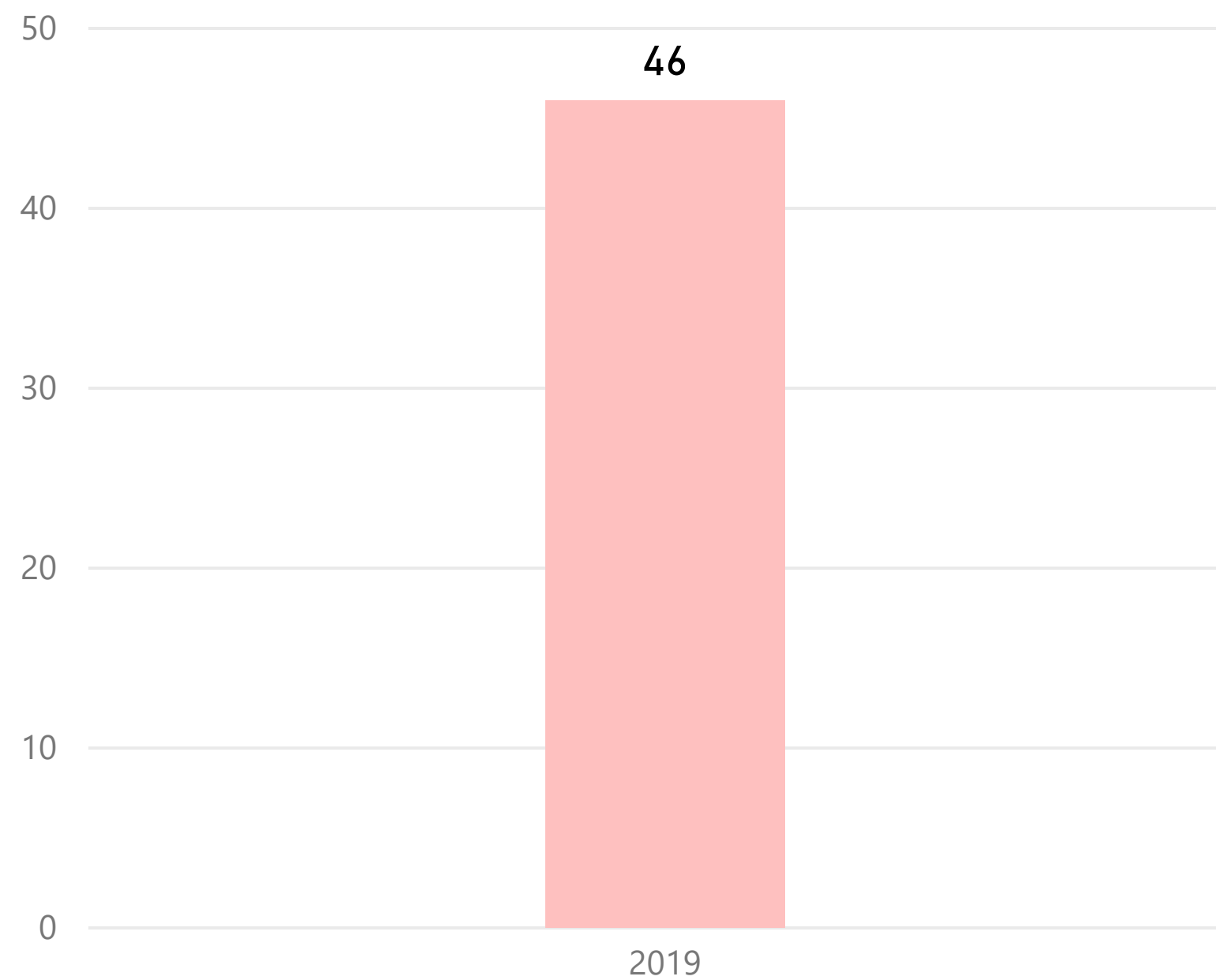


| Investigated Clinic   | Benchmark Clinics   | Investigated Year                        |
|---|---|--|
| <input type="checkbox"/> Bröst och Endokrinkirurgiska kliniken, KS H... | <input type="checkbox"/> Markera alla                                       | <input type="checkbox"/> Markera alla    |
| <input type="checkbox"/> Carlanderska Endokrinkirurgi                   | <input checked="" type="checkbox"/> Bröst och Endokrinkirurgiska klinike... | <input type="checkbox"/> 2012            |
| <input type="checkbox"/> Gastro Center Skåne                            | <input checked="" type="checkbox"/> Carlanderska Endokrinkirurgi            | <input type="checkbox"/> 2013            |
| <input type="checkbox"/> Kirurgiska kliniken, Aabenraa                  | <input checked="" type="checkbox"/> Gastro Center Skåne                     | <input type="checkbox"/> 2014            |
| <input type="checkbox"/> Kirurgiska kliniken, Århus                     | <input type="checkbox"/> Kirurgiska kliniken, Aabenraa                      | <input type="checkbox"/> 2015            |
| <input type="checkbox"/> Kirurgiska kliniken, Borås                     | <input type="checkbox"/> Kirurgiska kliniken, Århus                         | <input type="checkbox"/> 2016            |
| <input type="checkbox"/> Kirurgiska kliniken, Danderyd                  | <input checked="" type="checkbox"/> Kirurgiska kliniken, Borås              | <input type="checkbox"/> 2017            |
| <input type="checkbox"/> Kirurgiska kliniken, Eksjö                     | <input type="checkbox"/> Kirurgiska kliniken, Danderyd                      | <input type="checkbox"/> 2018            |
| <input type="checkbox"/> Kirurgiska kliniken, Falun                     | <input checked="" type="checkbox"/> Kirurgiska kliniken, Eksjö              | <input checked="" type="checkbox"/> 2019 |
| <input type="checkbox"/> Kirurgiska kliniken, Gävle                     | <input checked="" type="checkbox"/> Kirurgiska kliniken, Falun              |  |
| <input type="checkbox"/> Kirurgiska kliniken, Göteborg                  | <input checked="" type="checkbox"/> Kirurgiska kliniken, Gävle              |  |
| <input type="checkbox"/> Kirurgiska kliniken, Halmstad                  | <input checked="" type="checkbox"/> Kirurgiska kliniken, Göteborg           |  |
| <input type="checkbox"/> Kirurgiska kliniken, Haukeland                 | <input checked="" type="checkbox"/> Kirurgiska kliniken, Halmstad           |  |
| <input type="checkbox"/> Kirurgiska kliniken, Helsingborg               | <input type="checkbox"/> Kirurgiska kliniken, Haukeland                     |  |
| <input type="checkbox"/> Kirurgiska kliniken, Herning                   | <input checked="" type="checkbox"/> Kirurgiska kliniken, Helsingborg        |  |
| <input type="checkbox"/> Kirurgiska kliniken, Horsens                   | <input type="checkbox"/> Kirurgiska kliniken, Herning                       |  |
| <input type="checkbox"/> Kirurgiska kliniken, Jönköping                 | <input type="checkbox"/> Kirurgiska kliniken, Horsens                       |  |
| <input type="checkbox"/> Kirurgiska kliniken, Kalmar                    | <input checked="" type="checkbox"/> Kirurgiska kliniken, Jönköping          |  |
| <input type="checkbox"/> Kirurgiska kliniken, Karlskrona                | <input checked="" type="checkbox"/> Kirurgiska kliniken, Kalmar             |  |
| <input type="checkbox"/> Kirurgiska kliniken, Karlstad                  | <input checked="" type="checkbox"/> Kirurgiska kliniken, Karlskrona         |  |
| <input type="checkbox"/> Kirurgiska kliniken, Kristianstad              |   |  |
| <input type="checkbox"/> Kirurgiska kliniken, KS Solna                  |   |  |

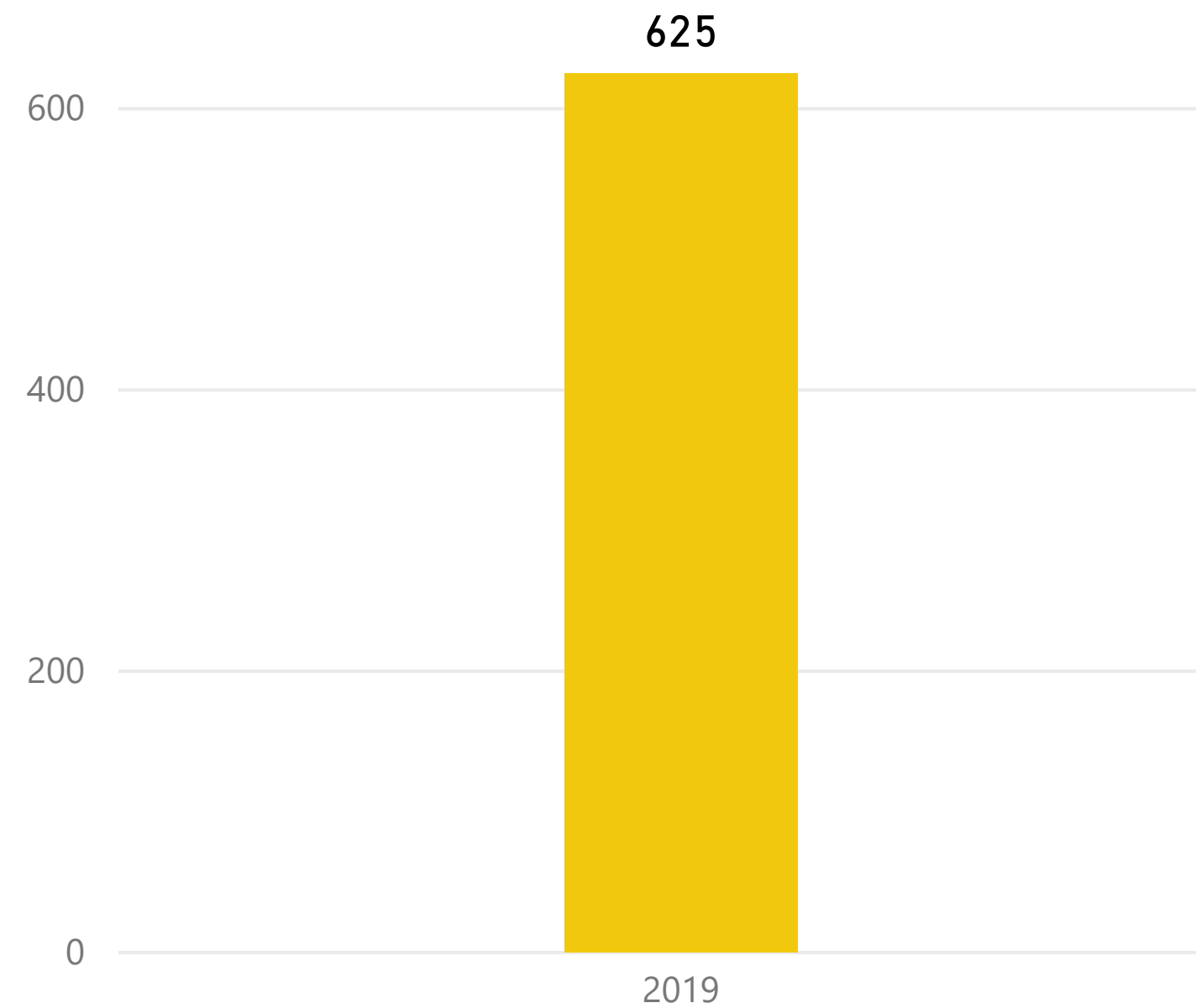
# EUROCRINE Benchmark Report on Operations for Primary Hyperparathyroidism



Registered Parathyroid Operations  
in Your Clinic



Registered Parathyroid Operations in  
Other EUROCRINE Clinics of Your Country



Investigated Year

- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019

Color Coding in this Report:

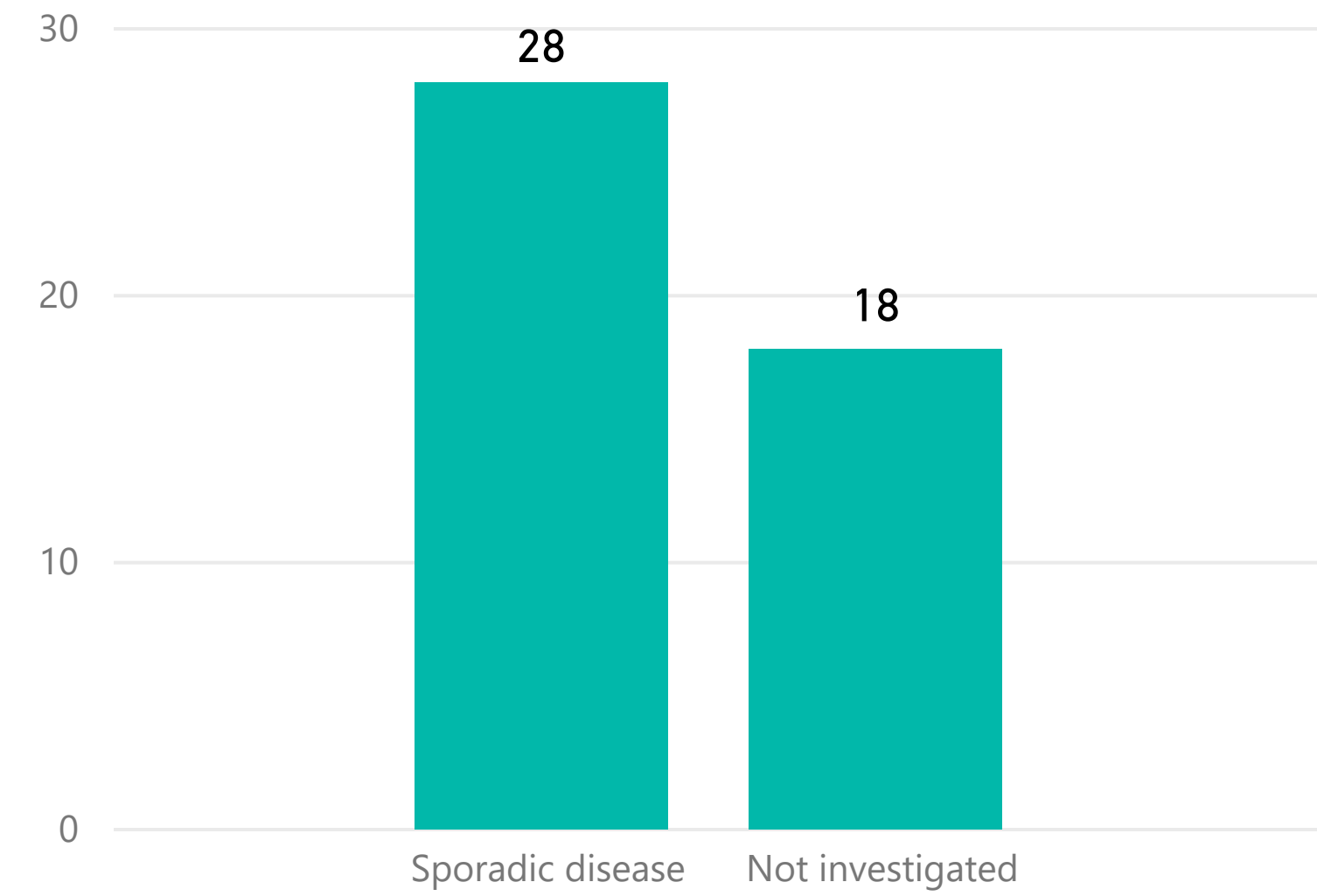
Your Clinic

Other EUROCRINE Clinics in Your Country

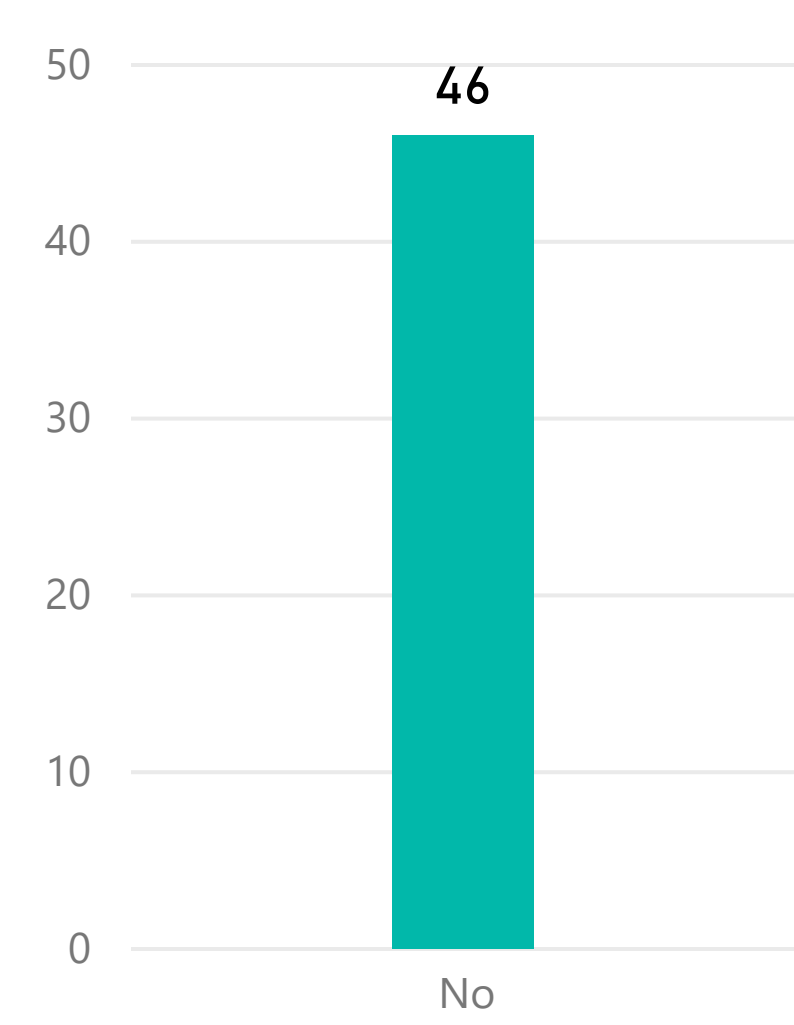
# Parathyroids

## Ethiology, Age Distribution

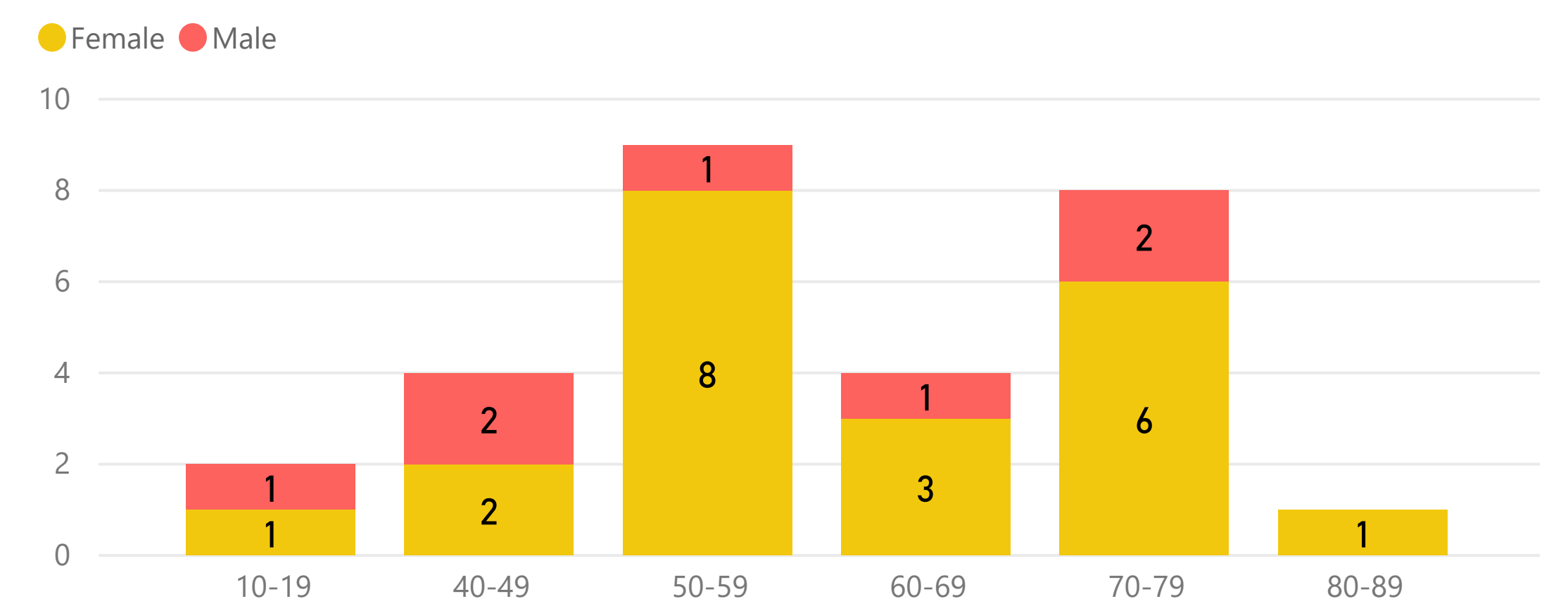
Etiology



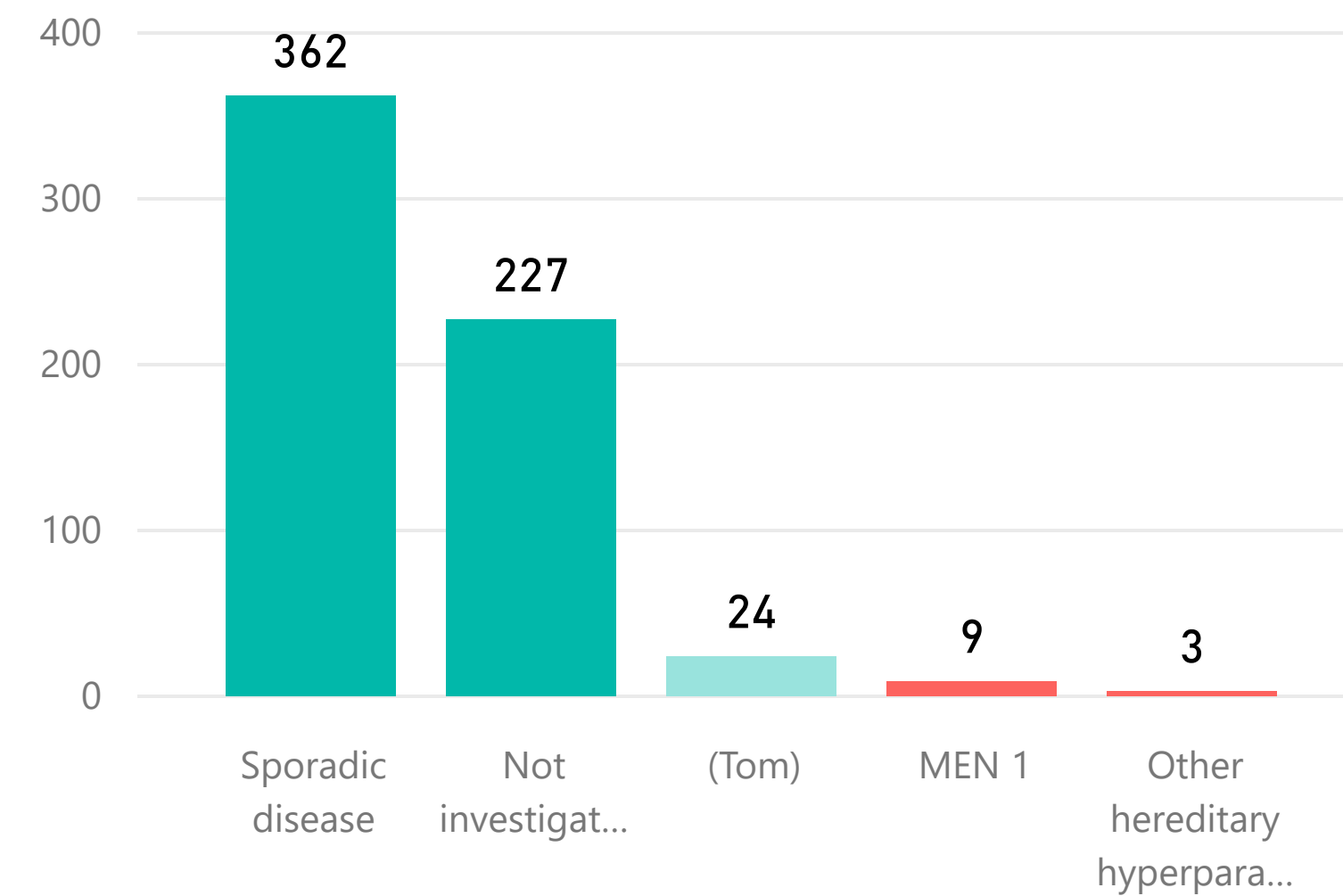
Lithium - Therapy



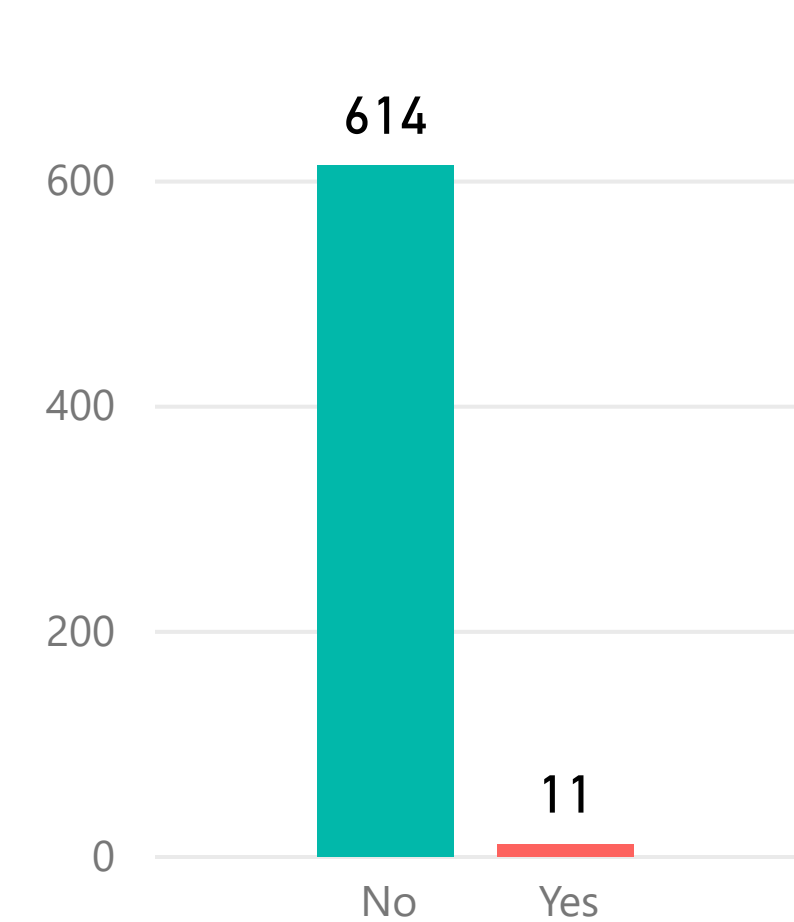
Age Distribution and Gender (Sporadic pHPT)



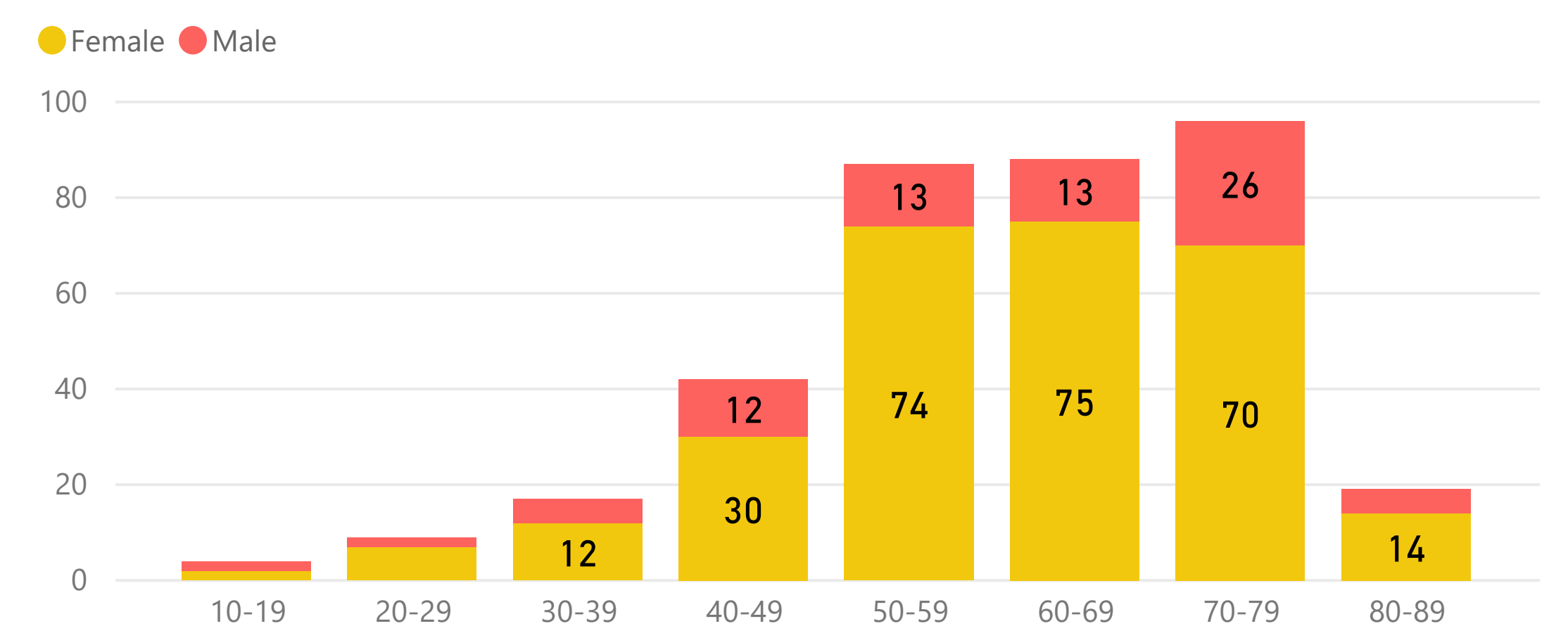
Etiology



Lithium - Therapy



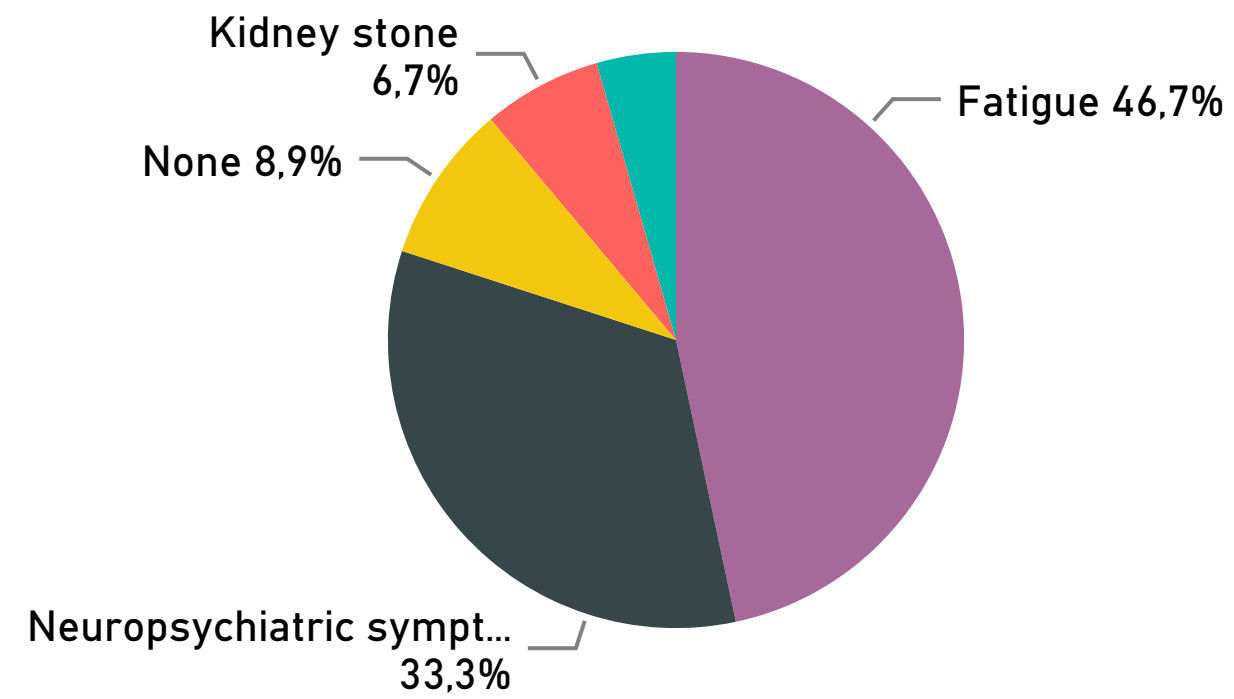
Age Distribution and Gender (Sporadic pHPT)



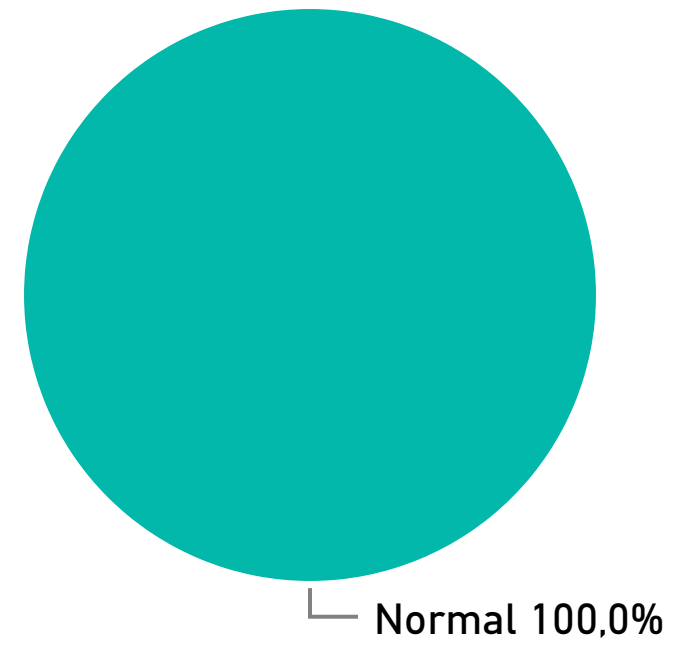
# Parathyroids

## Symptomatology and Preoperative Workup, Sporadic Disease, Primary Operations

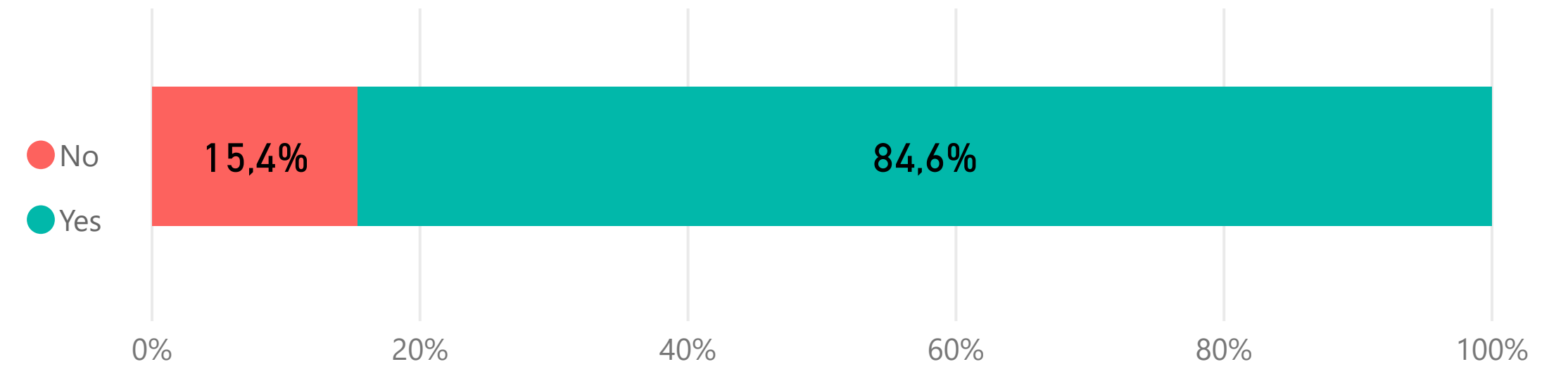
Preoperative Symptomatology



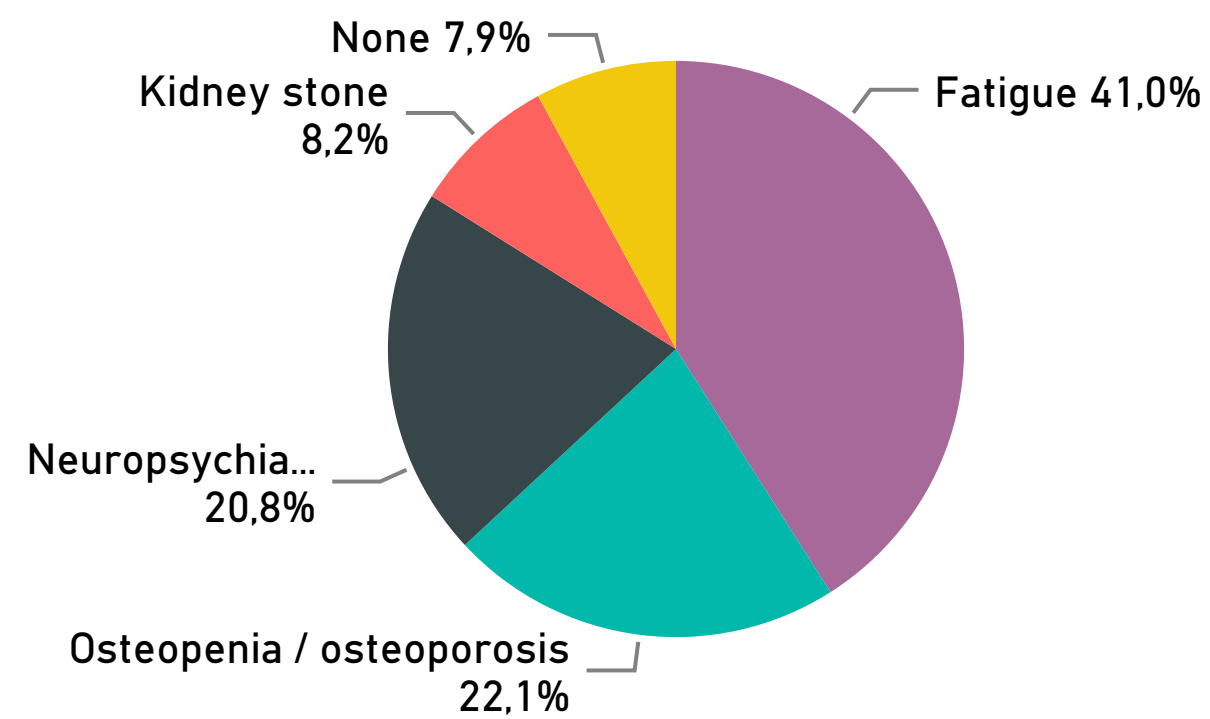
Preoperative Laryngoscopy



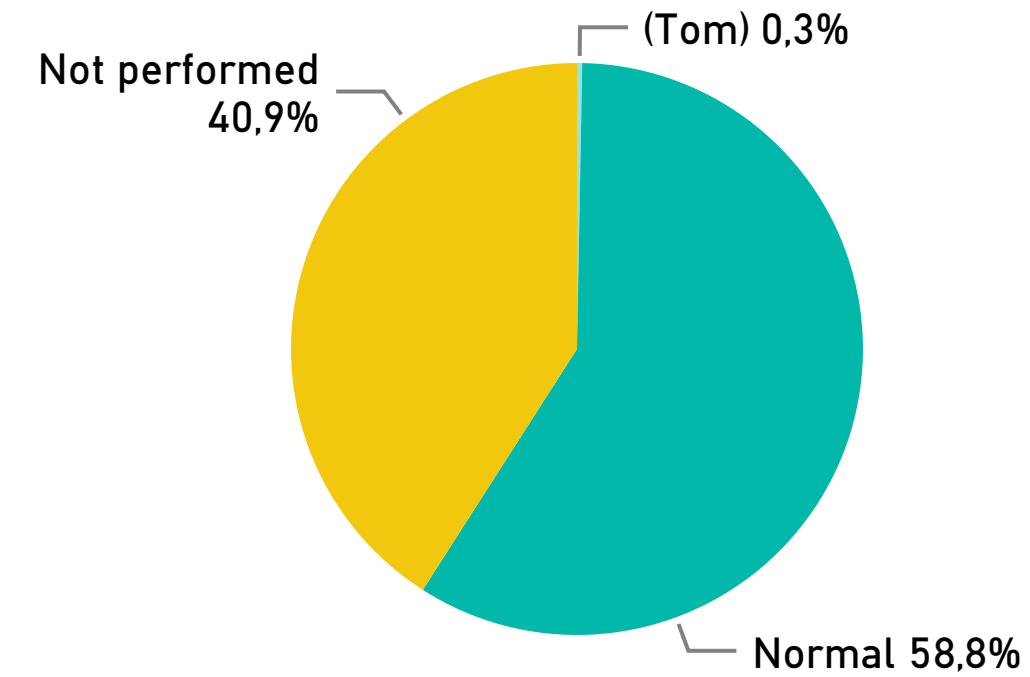
Localisation Examinations Performed



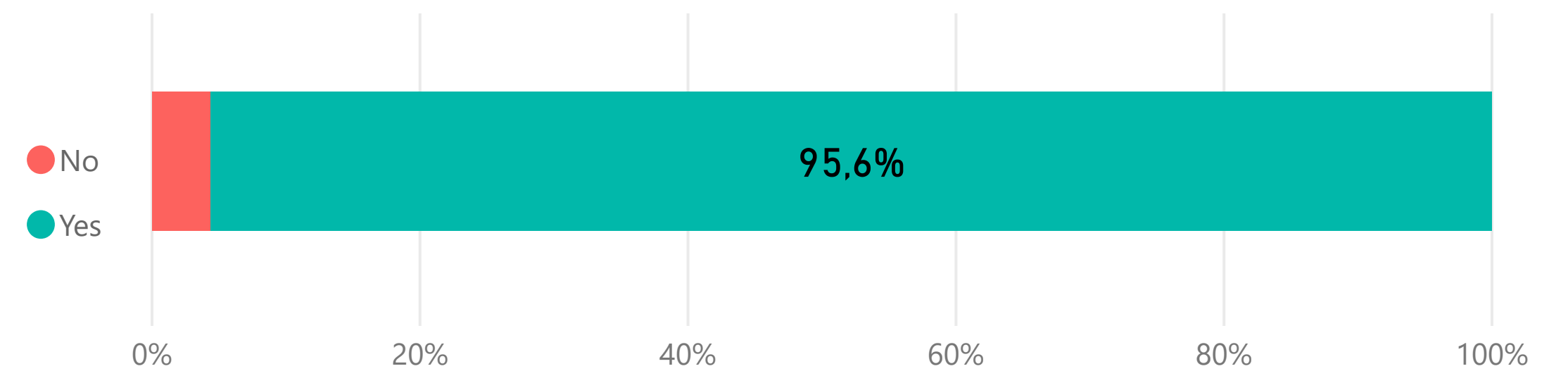
Preoperative Symptomatology



Preoperative Laryngoscopy



Localisation Examinations Performed



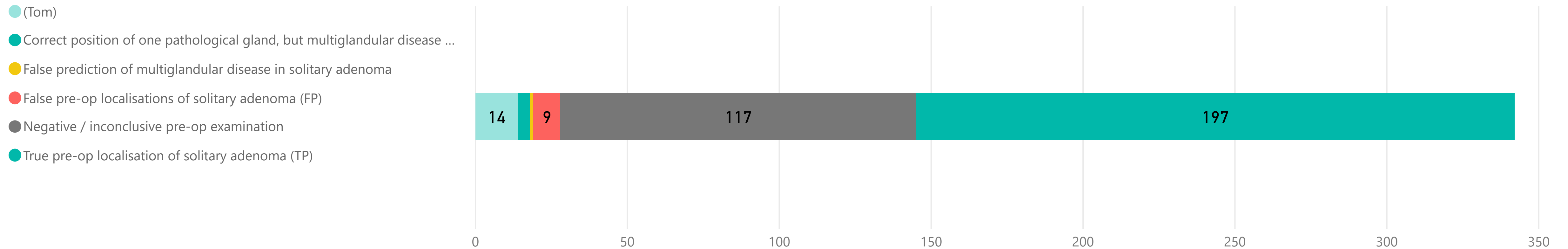
# Parathyroids

## Preoperative Imaging: Ultrasound, Sporadic Disease, Primary Operations

### Preoperative Ultrasound in Relation to Intraoperative Finding



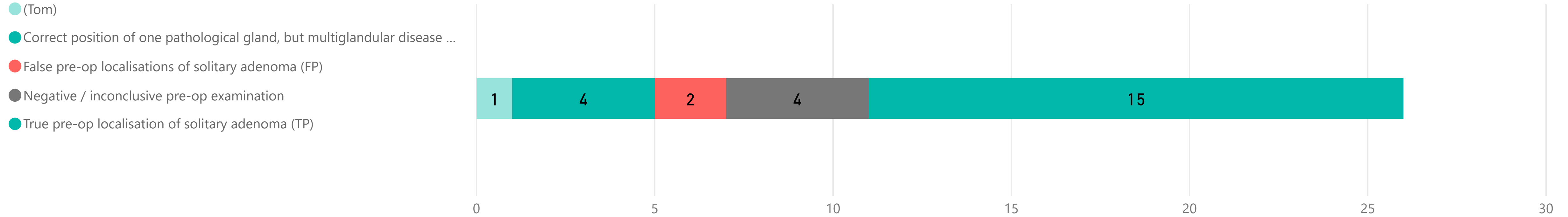
### Preoperative Ultrasound in Relation to Intraoperative Finding



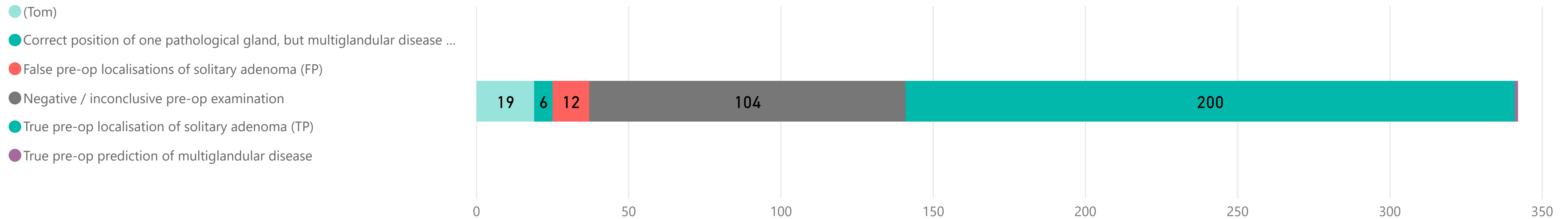
# Parathyroids

## Preoperative Imaging: Sestamibi-Scintigraphy, Sporadic Disease, Primary Operations

Preoperative Mibi-Scintigraphy in Relation to Intraoperative Finding



Preoperative Mibi-Scintigraphy in Relation to Intraoperative Finding

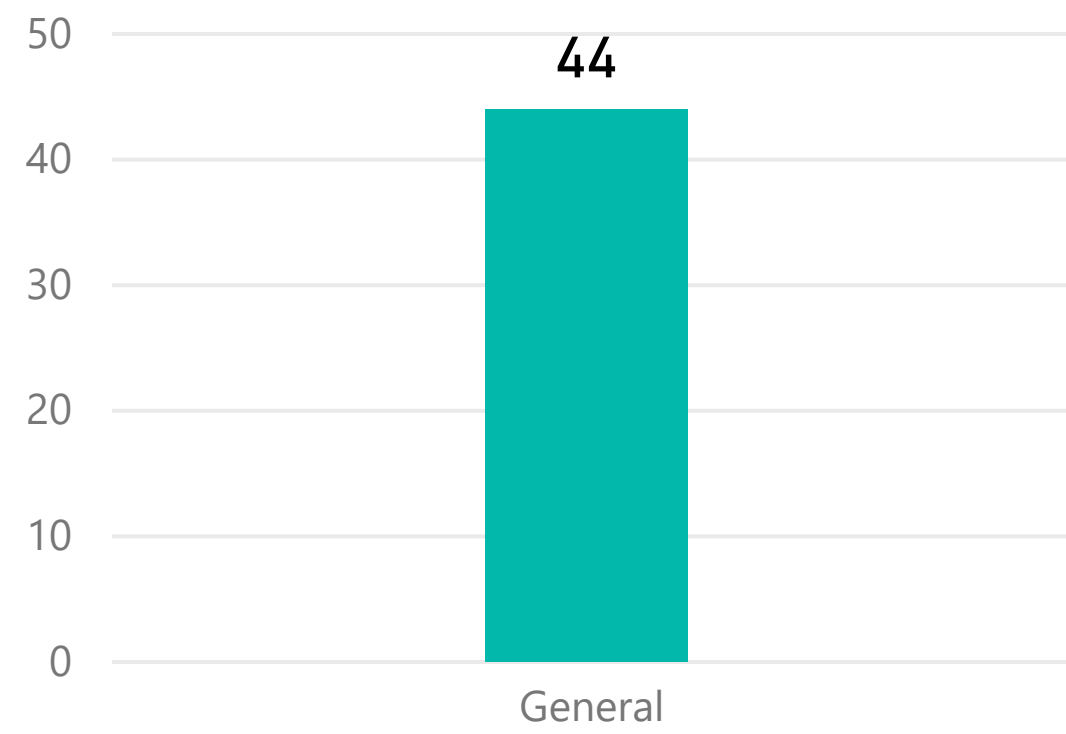


# Parathyroids

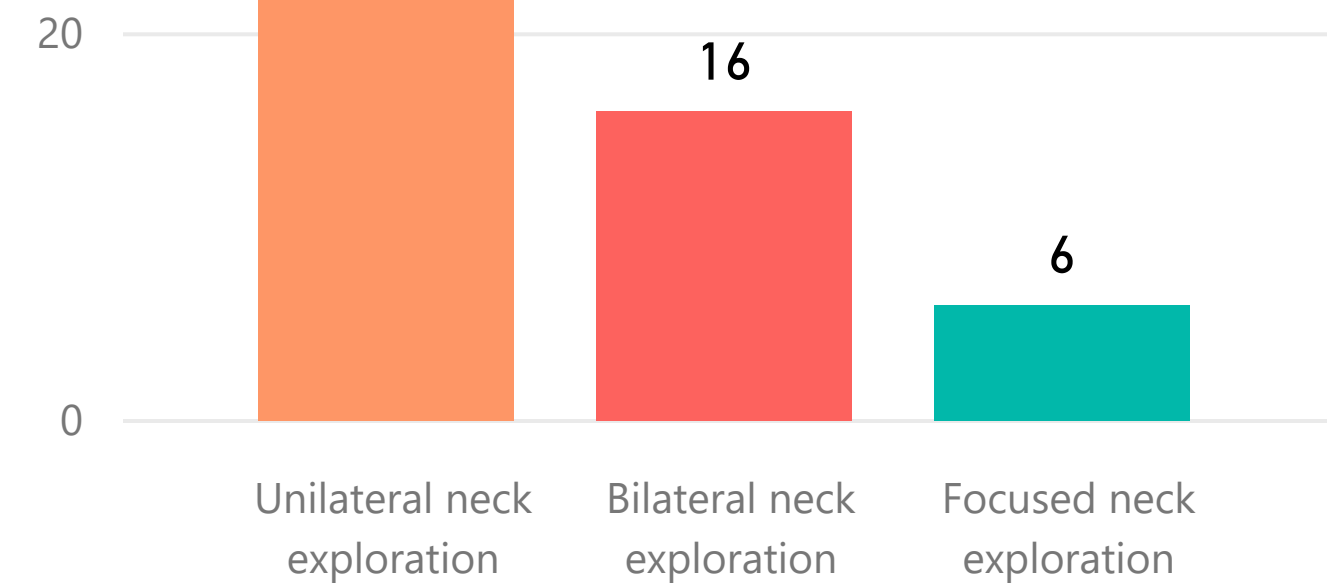
## Characteristics of Primary Operations, Sporadic Disease



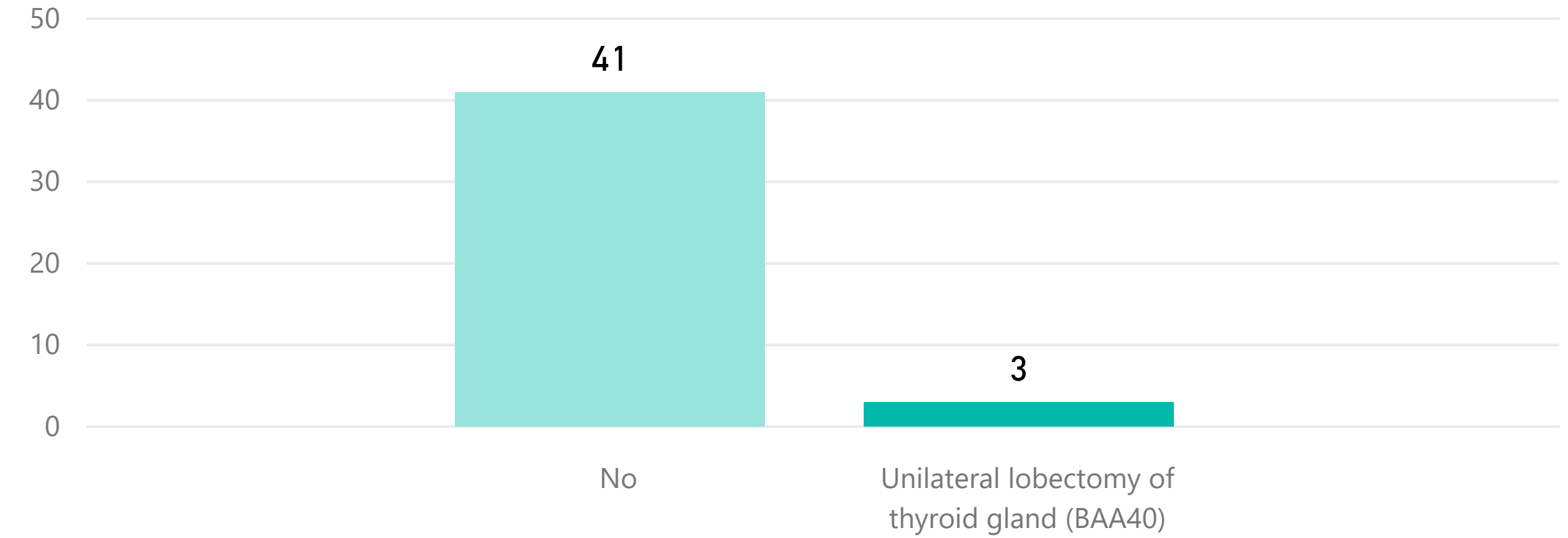
Type of Anesthesia



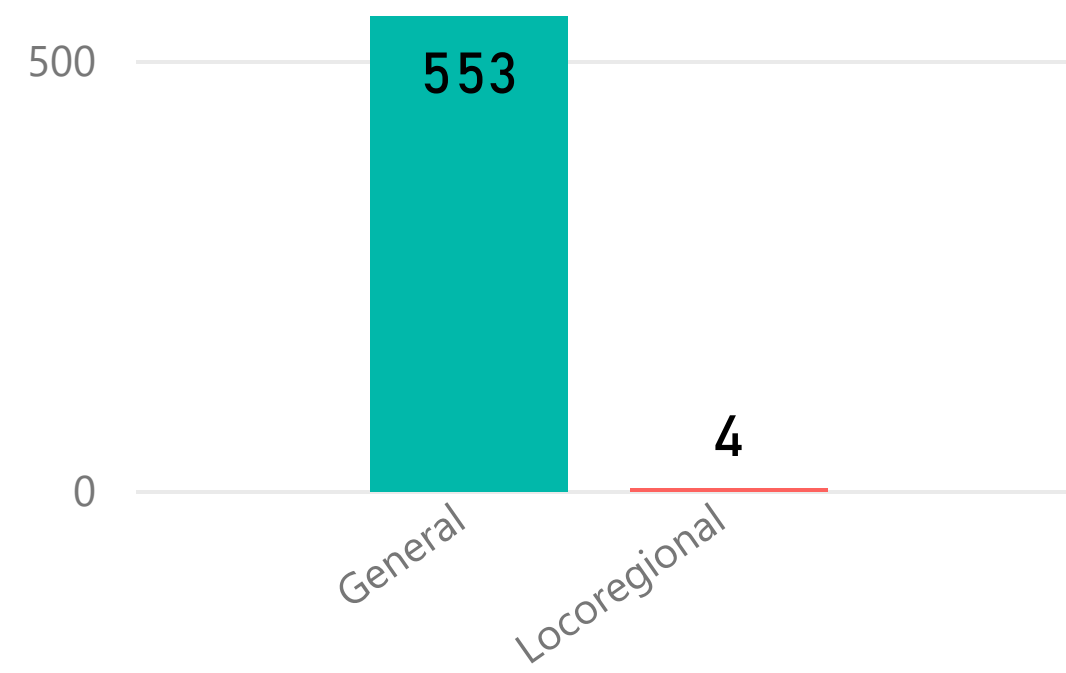
Type of Approach



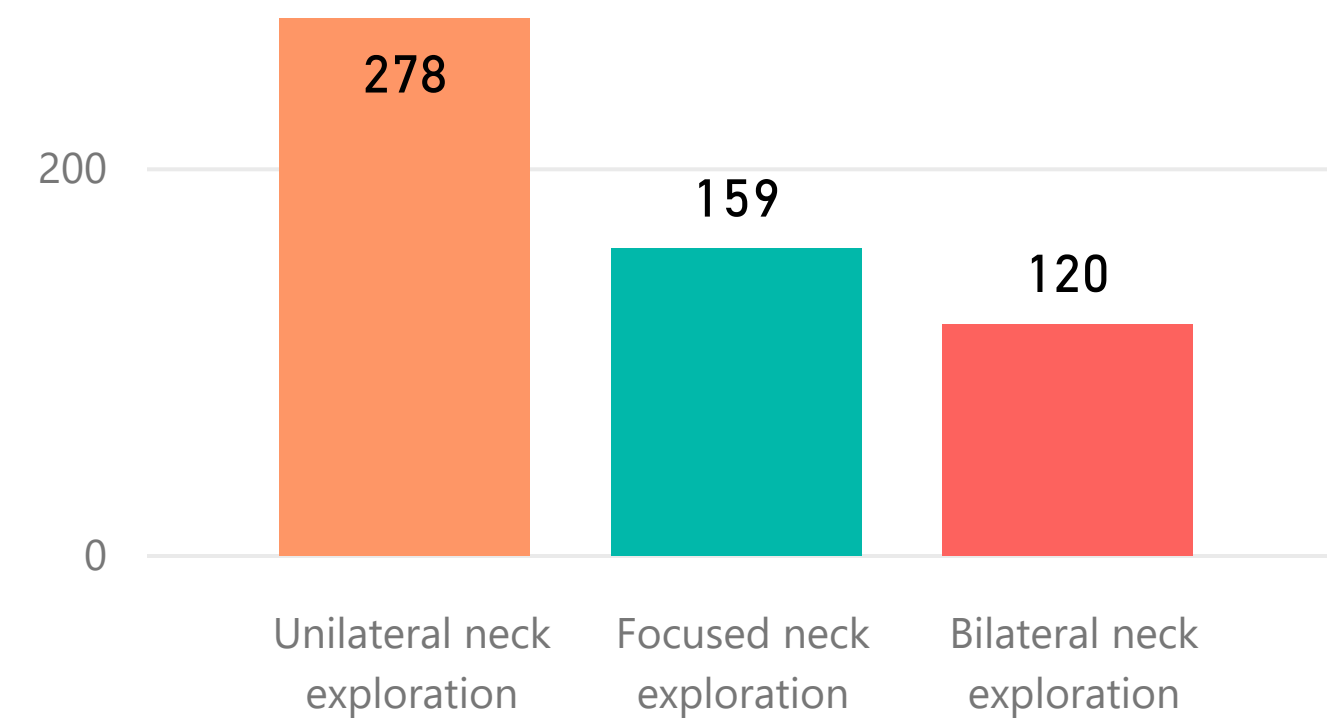
Concomittant Thyroid Resection



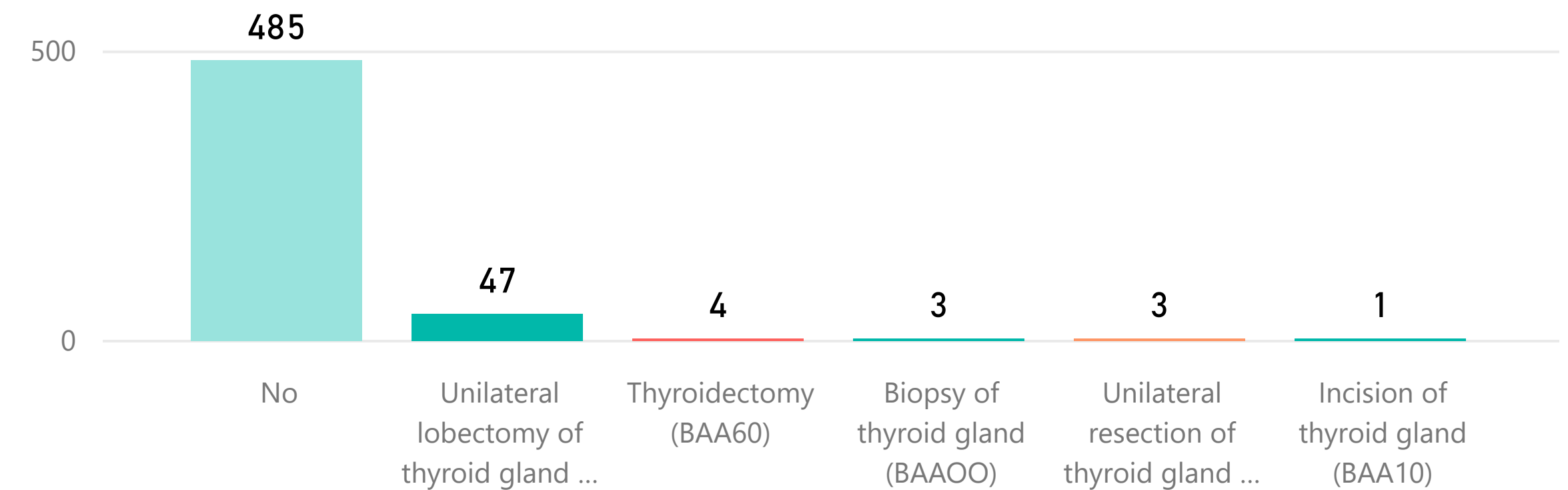
Type of Anesthesia



Type of Approach



Concomittant Thyroid Resection

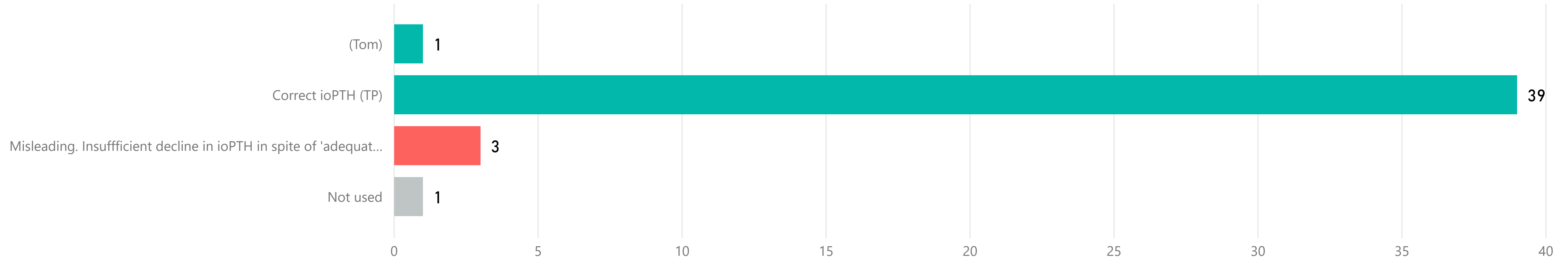


# Parathyroids

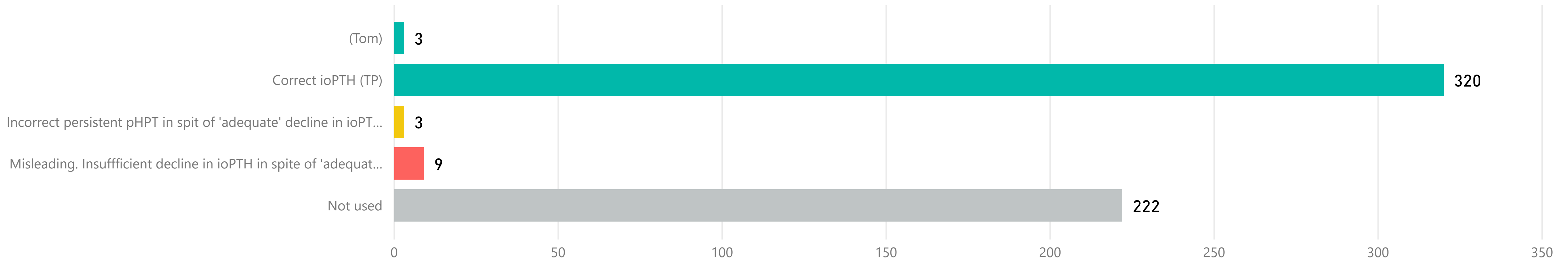
## Characteristics of Primary Operations for Sporadic pHPT: Results of PTH-Monitoring



PTH-Monitoring Results



PTH-Monitoring Results



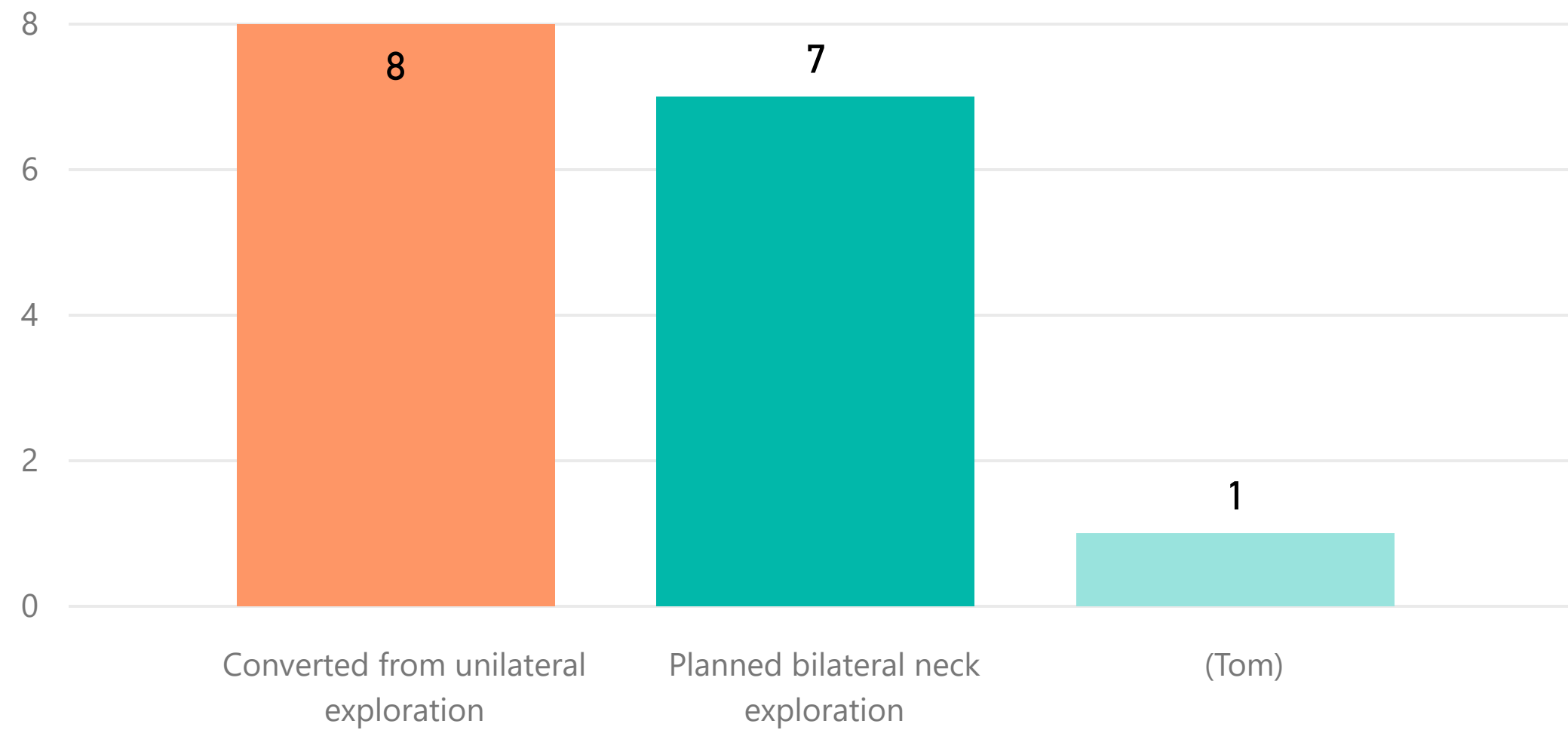


# Parathyroids

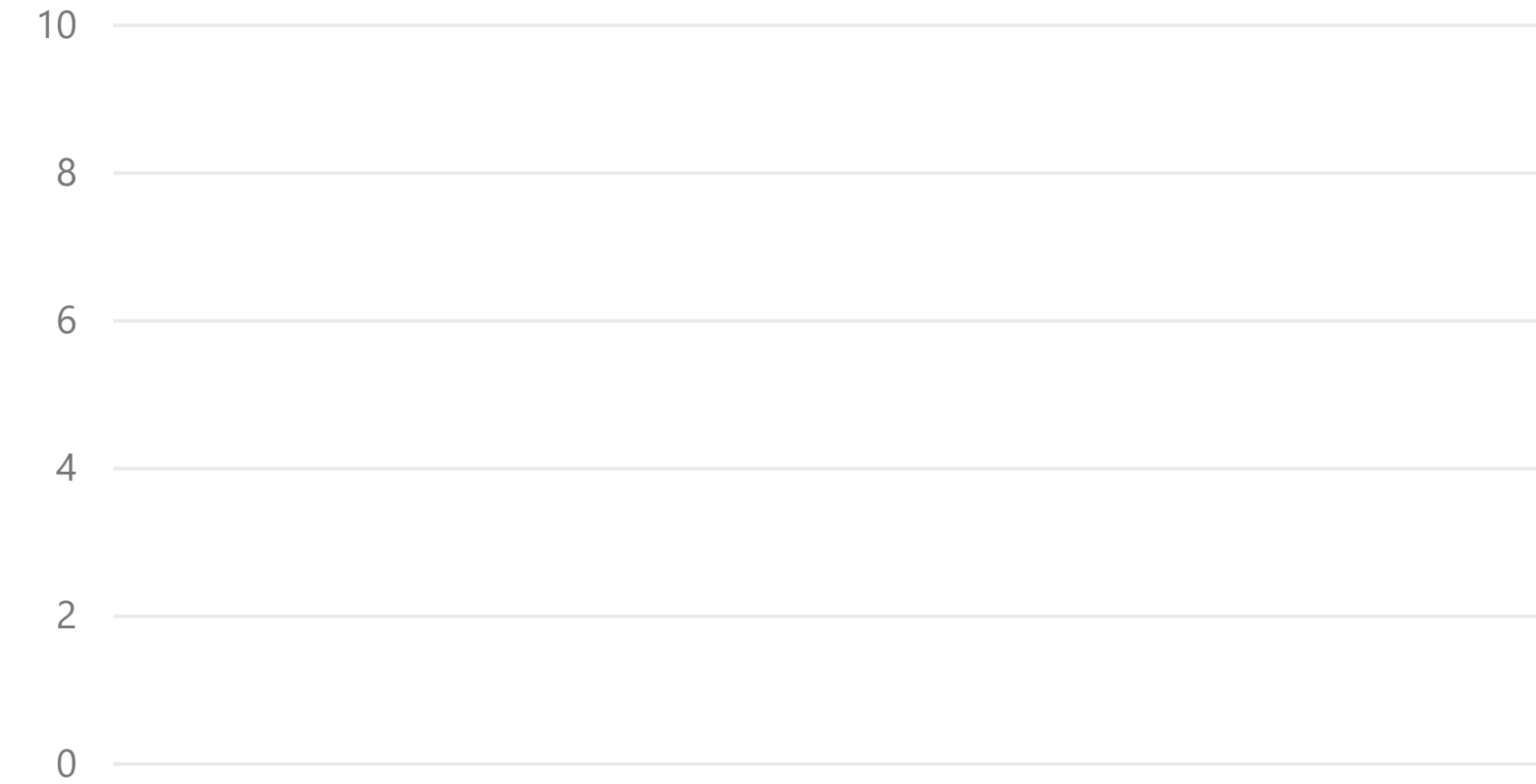
## Characteristics of Bilateral Explorations in Sporadic and Hereditary Disease (Primary Operations)



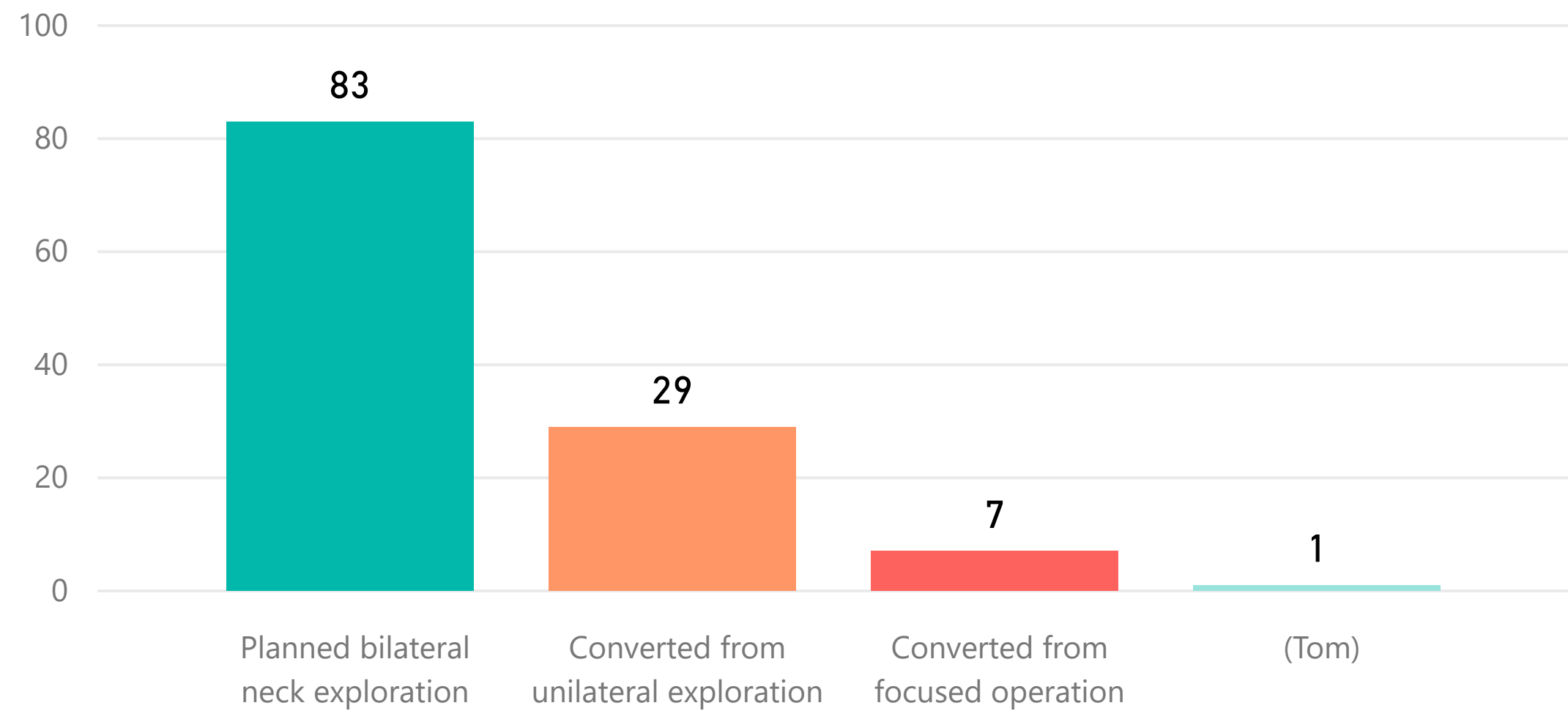
Starting Point of Bilateral Explorations in Sporadic Disease



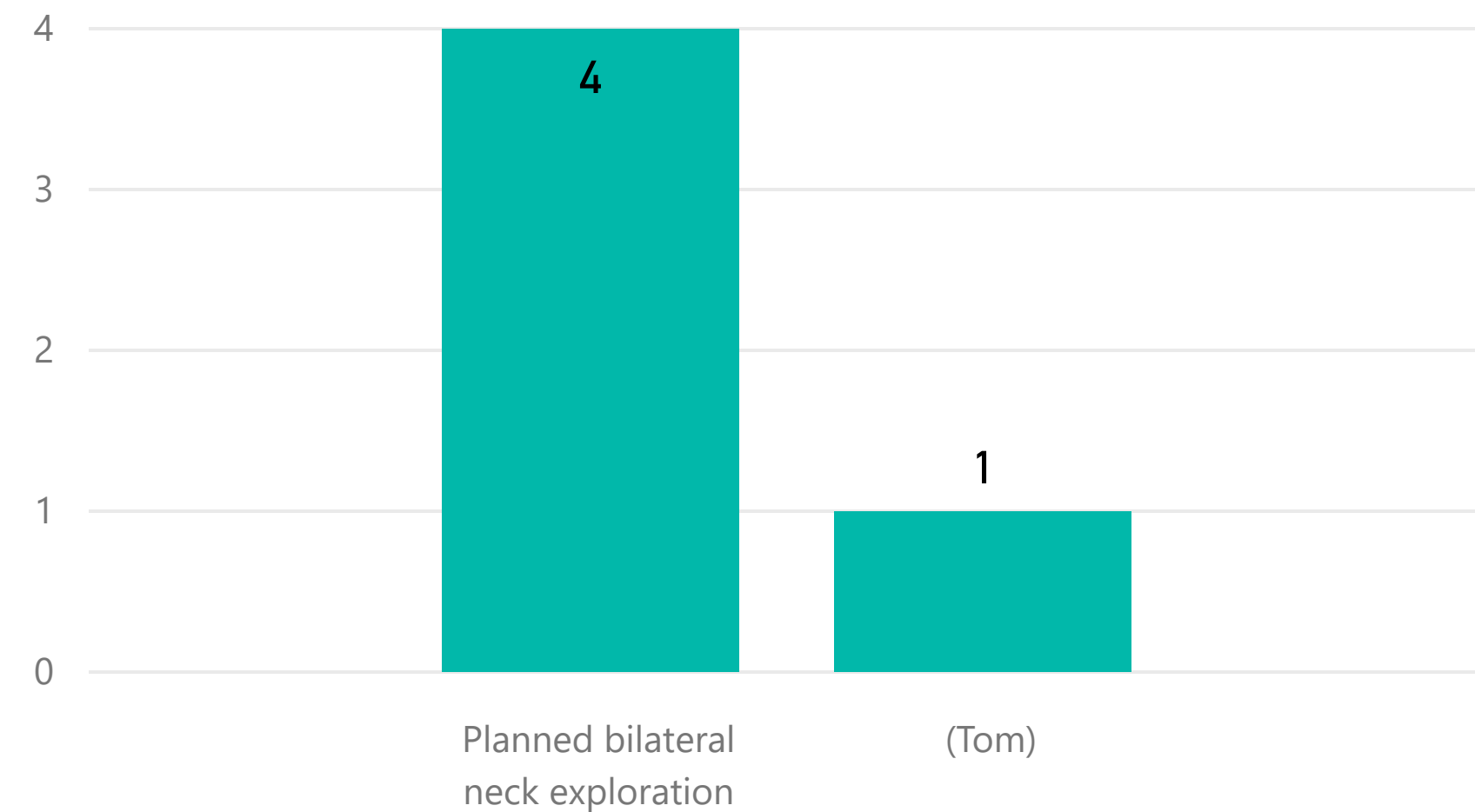
Starting Point of Bilateral Explorations in Hereditary Disease

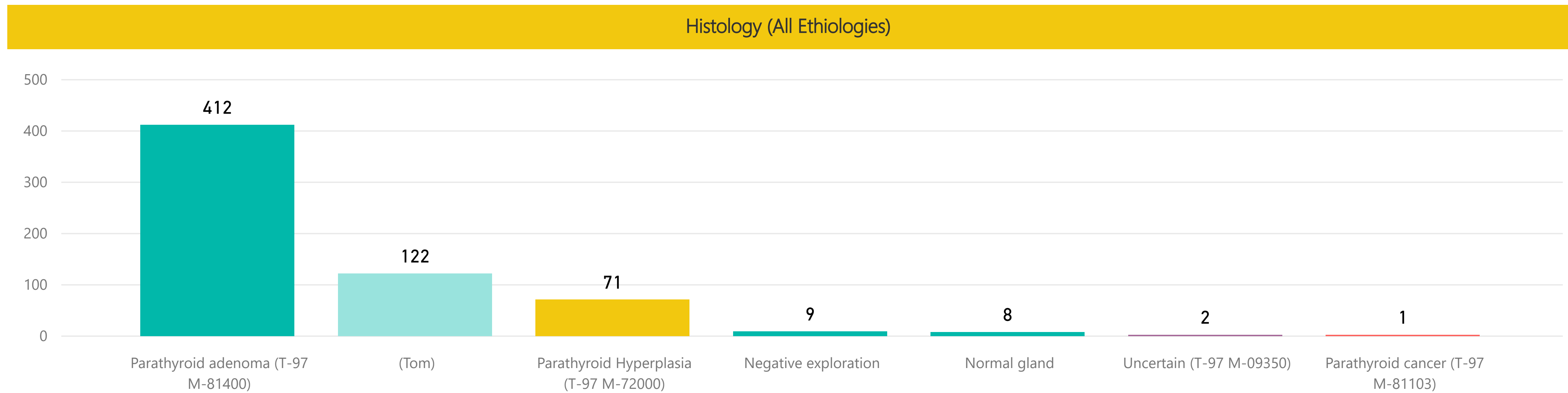
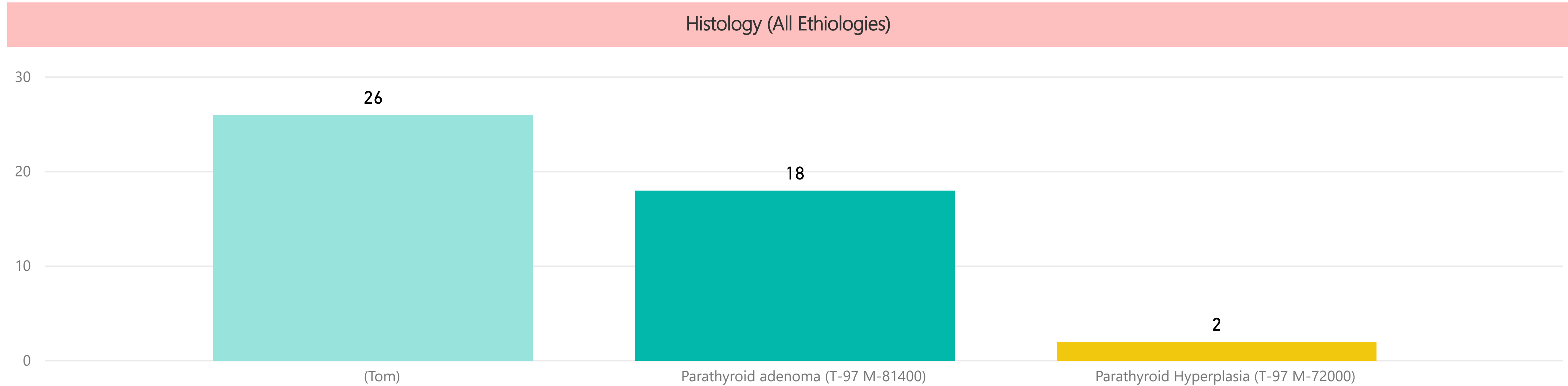


Starting Point of Bilateral Explorations in Sporadic Disease



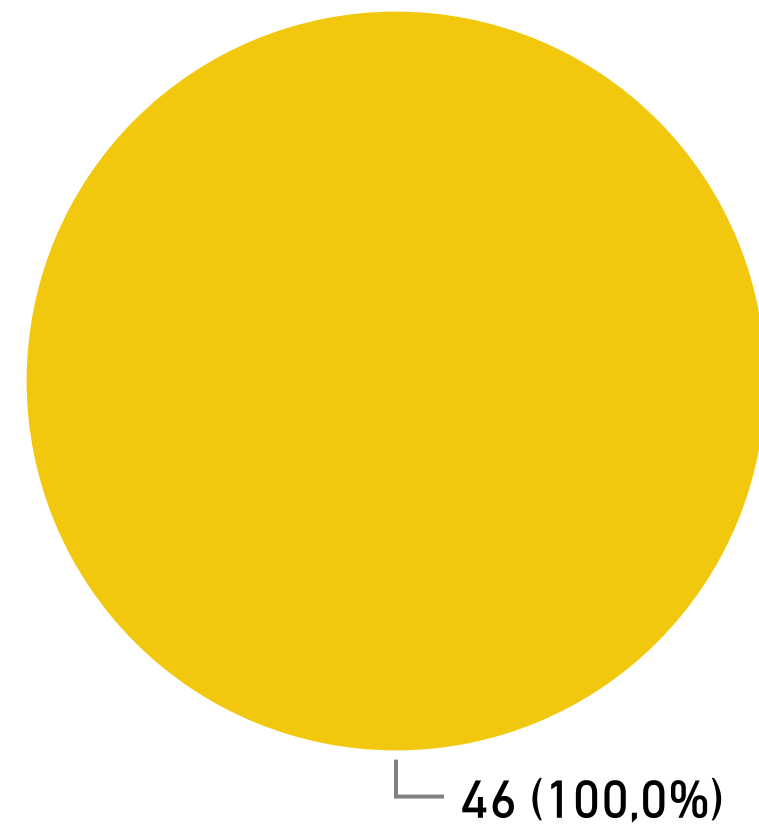
Starting Point of Bilateral Explorations in Hereditary Disease





Postoperative Laryngoscopy

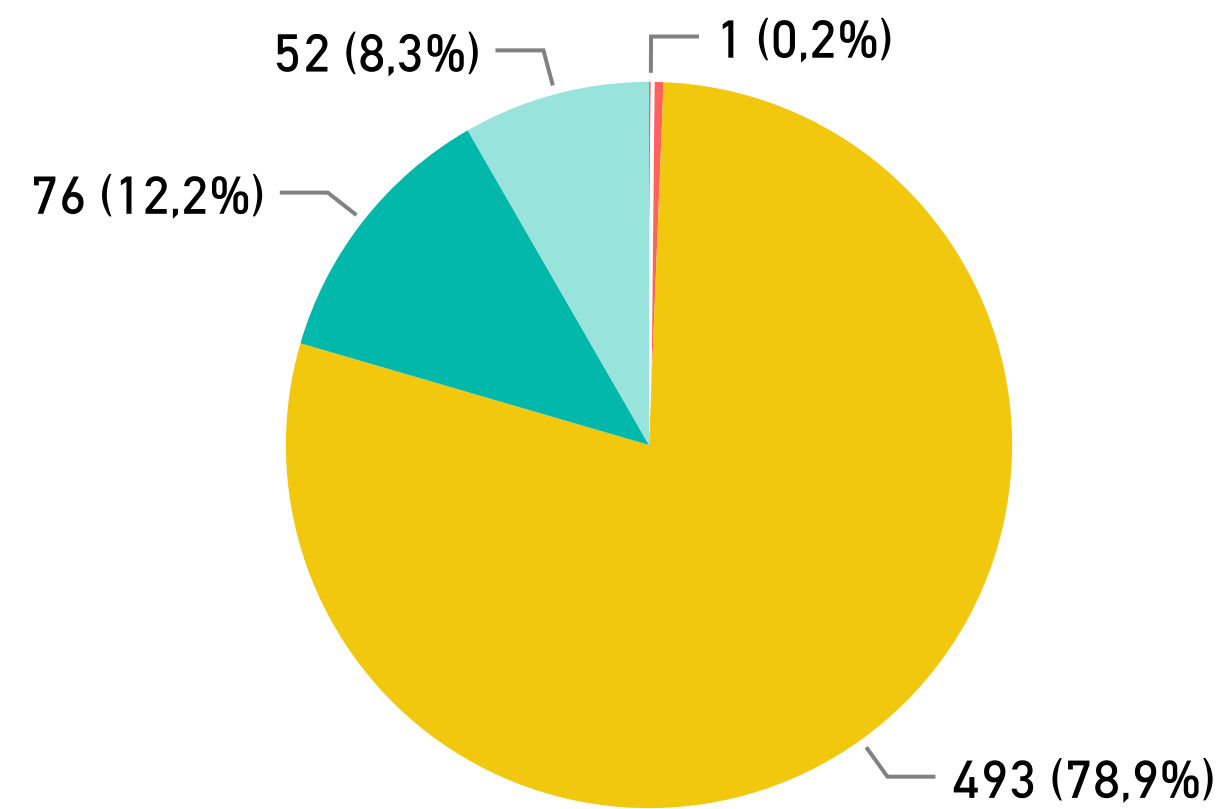
● Not performed



| Postoperative Laryngoscopy | n         | %              |
|----------------------------|-----------|----------------|
| Not performed              | 46        | 100,00%        |
| <b>Totalt</b>              | <b>46</b> | <b>100,00%</b> |

Postoperative Laryngoscopy

- Paresis of the right recurrent lary...
- Paresis of the left recurrent laryn...
- Not performed
- Normal
- (Tom)



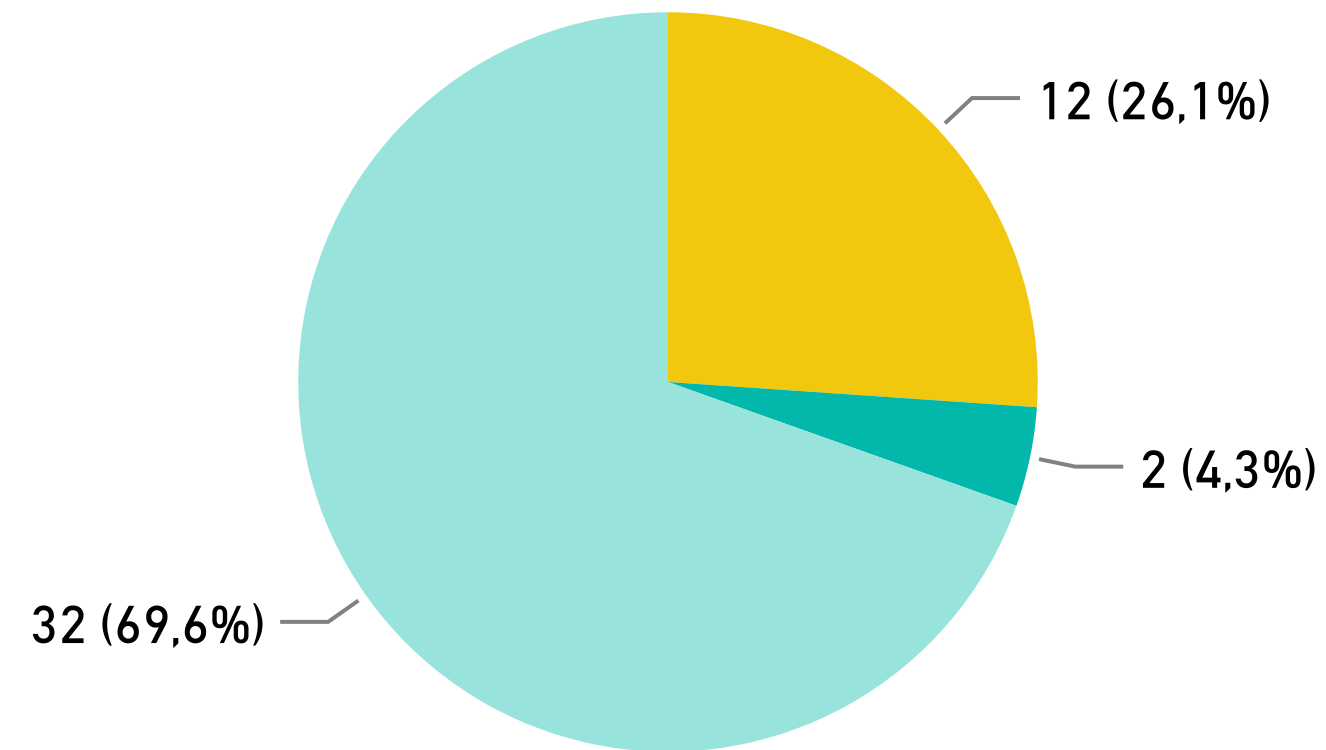
| Postoperative Laryngoscopy                     | n          | %              |
|--|------------|----------------|
| Normal   | 76         | 12,16%         |
| Not performed                                  | 493        | 78,88%         |
| Paresis of the left recurrent laryngeal nerve  | 3          | 0,48%          |
| Paresis of the right recurrent laryngeal nerve | 1          | 0,16%          |
| <b>Totalt</b>                                  | <b>625</b> | <b>100,00%</b> |

# Parathyroids

## Laryngoscopy at Follow-up (F2)

### Laryngoscopy at Longterm Follow-up (F2)

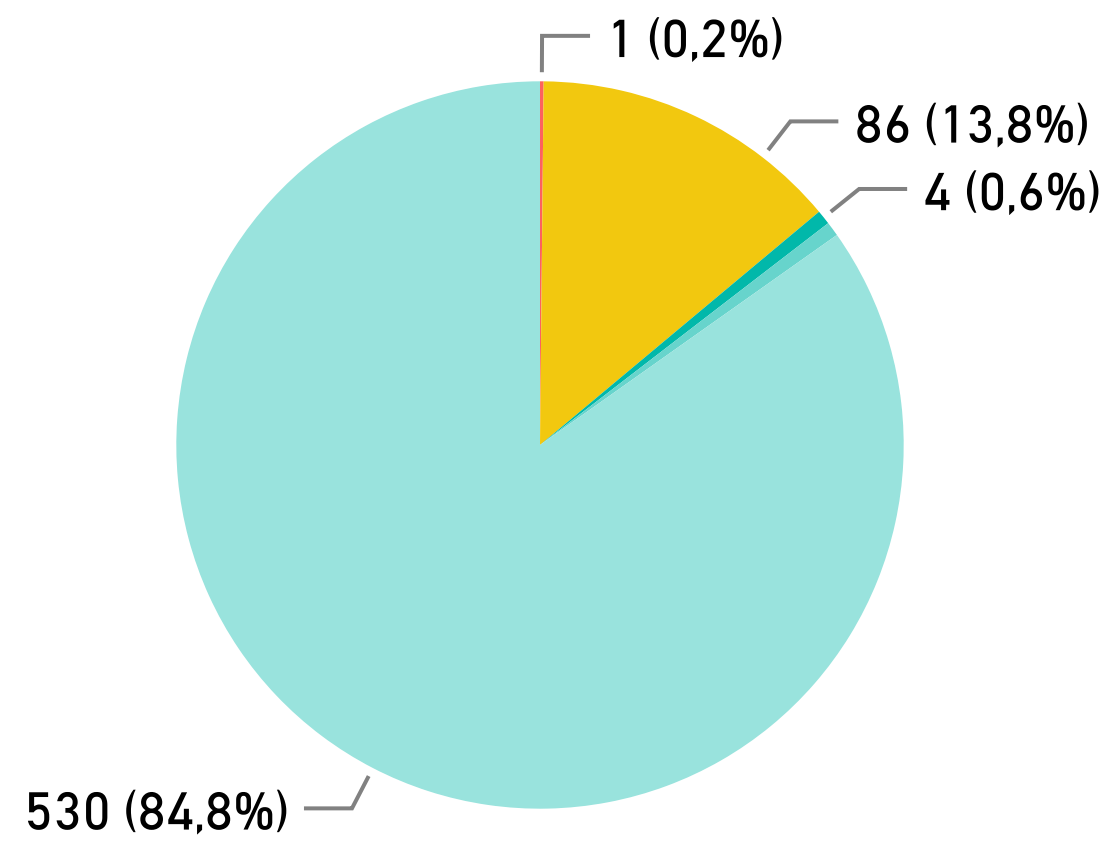
- Not performed
- Normal
- (Tom)



| Laryngoscopy at Follow-up | n         | %              |
|---------------------------|-----------|----------------|
| (Tom)                     | 32        | 69,57%         |
| Normal                    | 2         | 4,35%          |
| Not performed             | 12        | 26,09%         |
| <b>Totalt</b>             | <b>46</b> | <b>100,00%</b> |

### Laryngoscopy at Longterm Follow-up (F2)

- Paresis of the left recurrent laryn...
- Not performed
- Normal
- No data available
- (Tom)



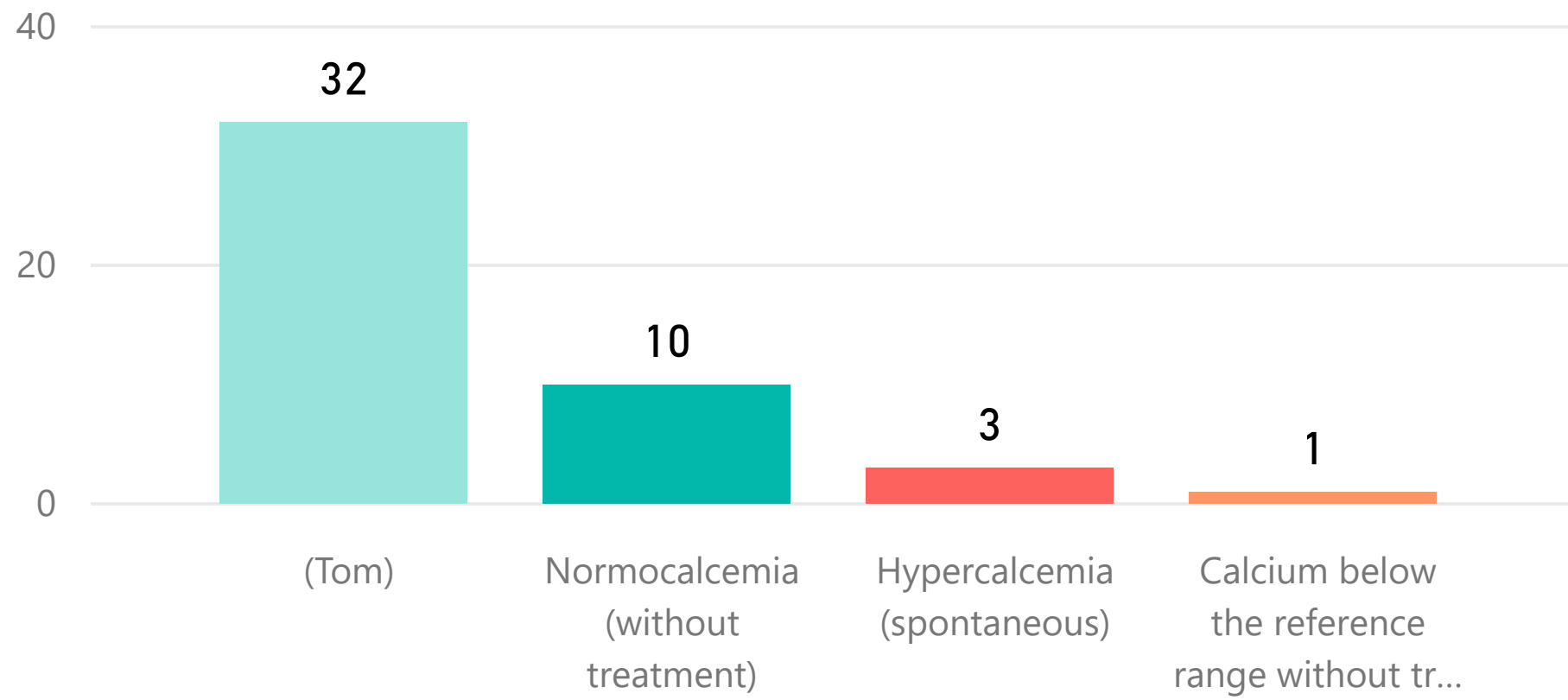
| Laryngoscopy at Follow-up                     | n          | %              |
|---|------------|----------------|
| (Tom)   | 530        | 84,80%         |
| No data available                             | 4          | 0,64%          |
| Normal  | 4          | 0,64%          |
| Not performed                                 | 86         | 13,76%         |
| Paresis of the left recurrent laryngeal nerve | 1          | 0,16%          |
| <b>Totalt</b>                                 | <b>625</b> | <b>100,00%</b> |

# Parathyroids

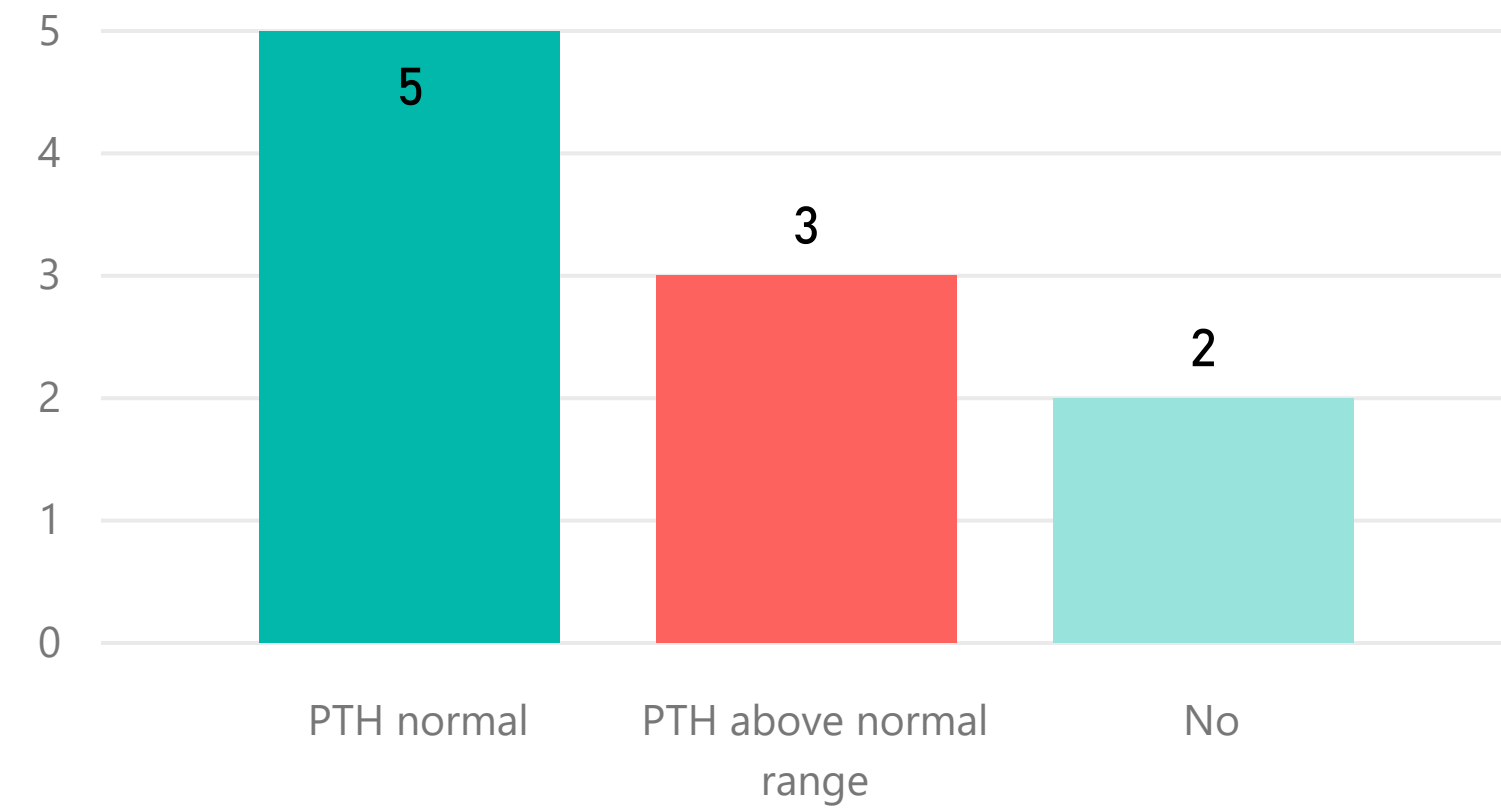
## Follow-up Data



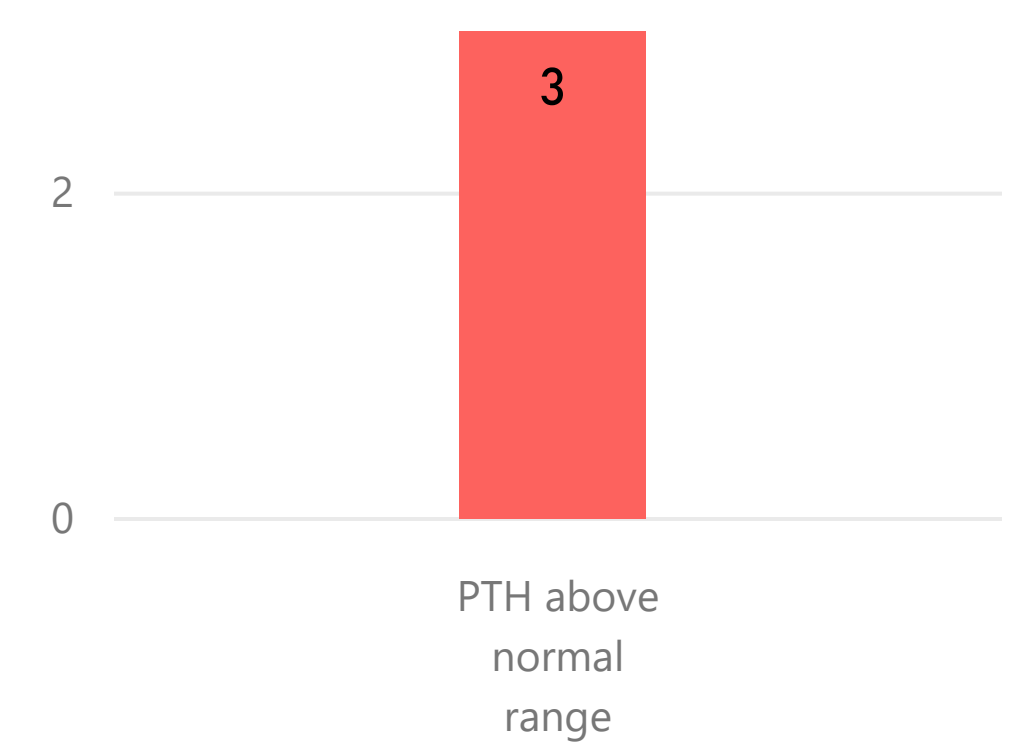
Calcium Status



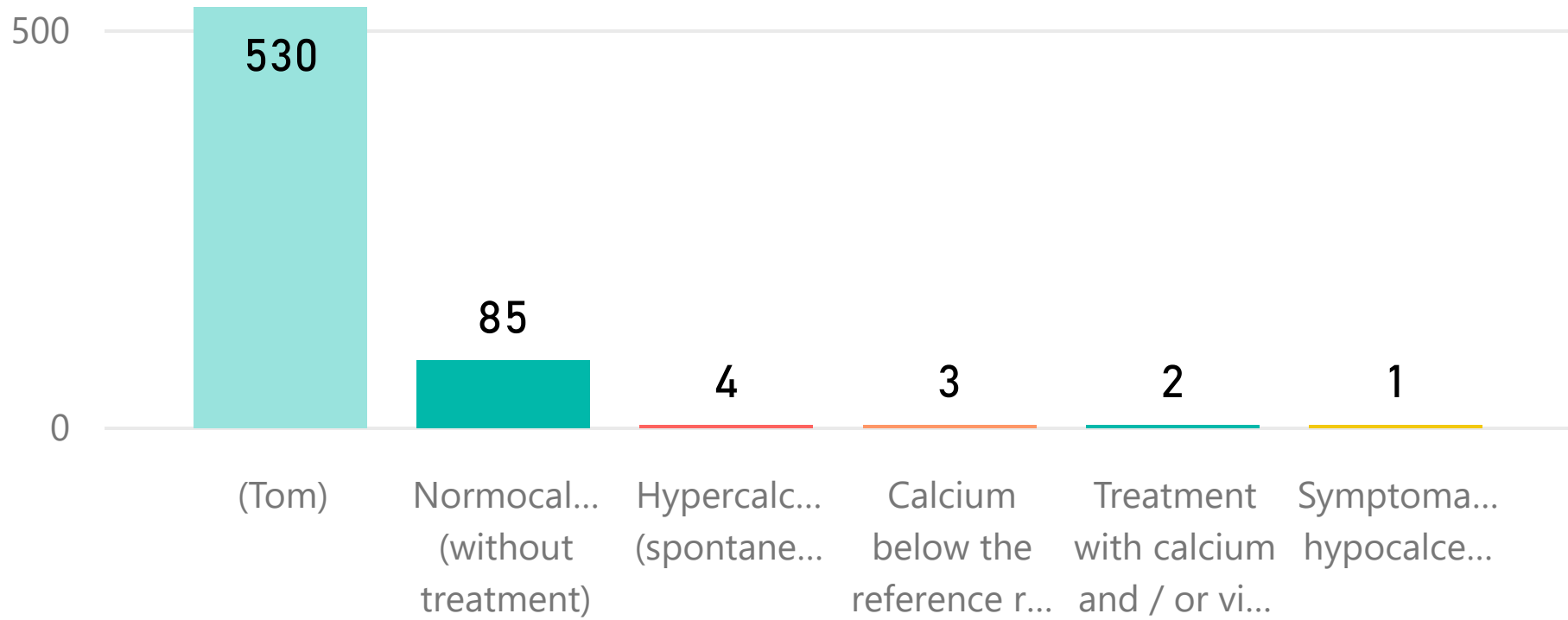
PTH Status of Normocalcemic Patients or Patients on Ca / Vit D



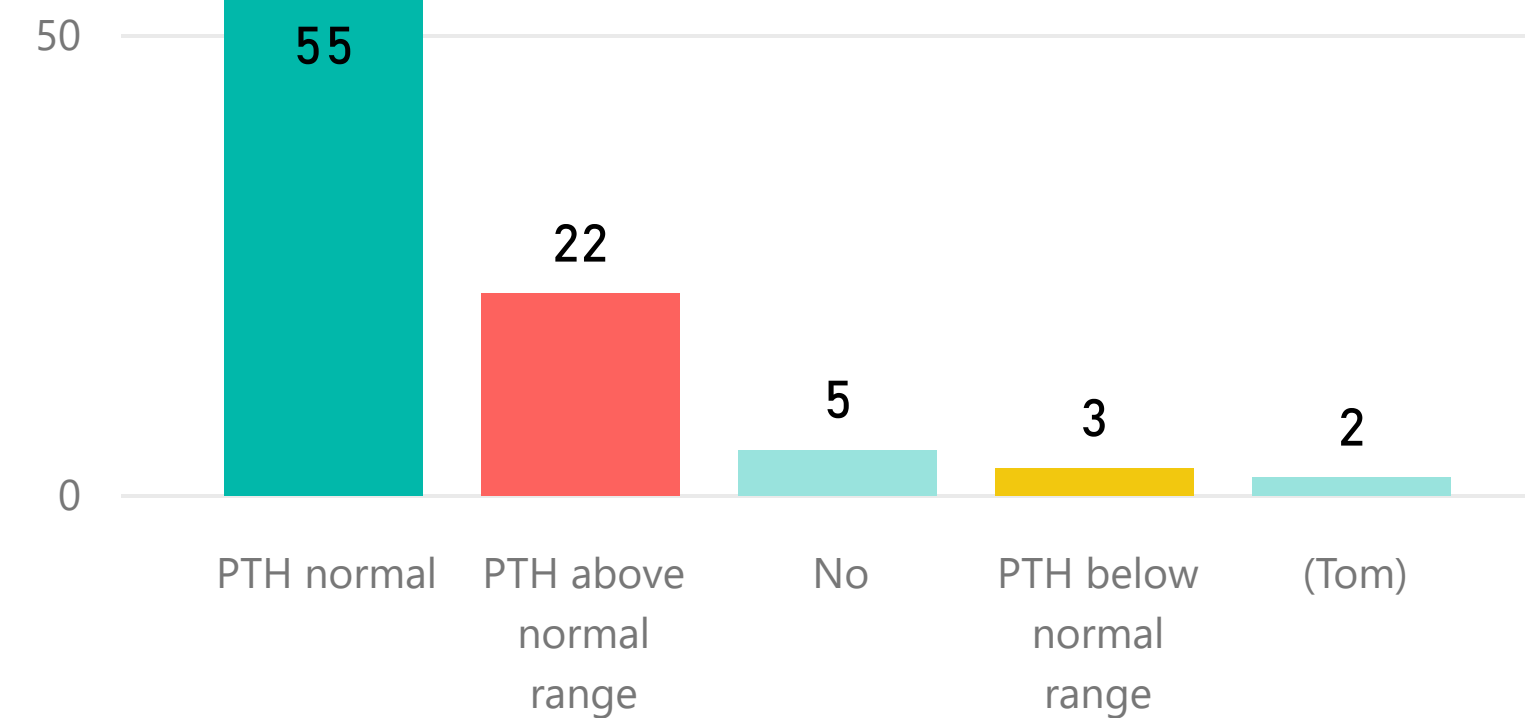
PTH Status of Hypercalcemic Patients



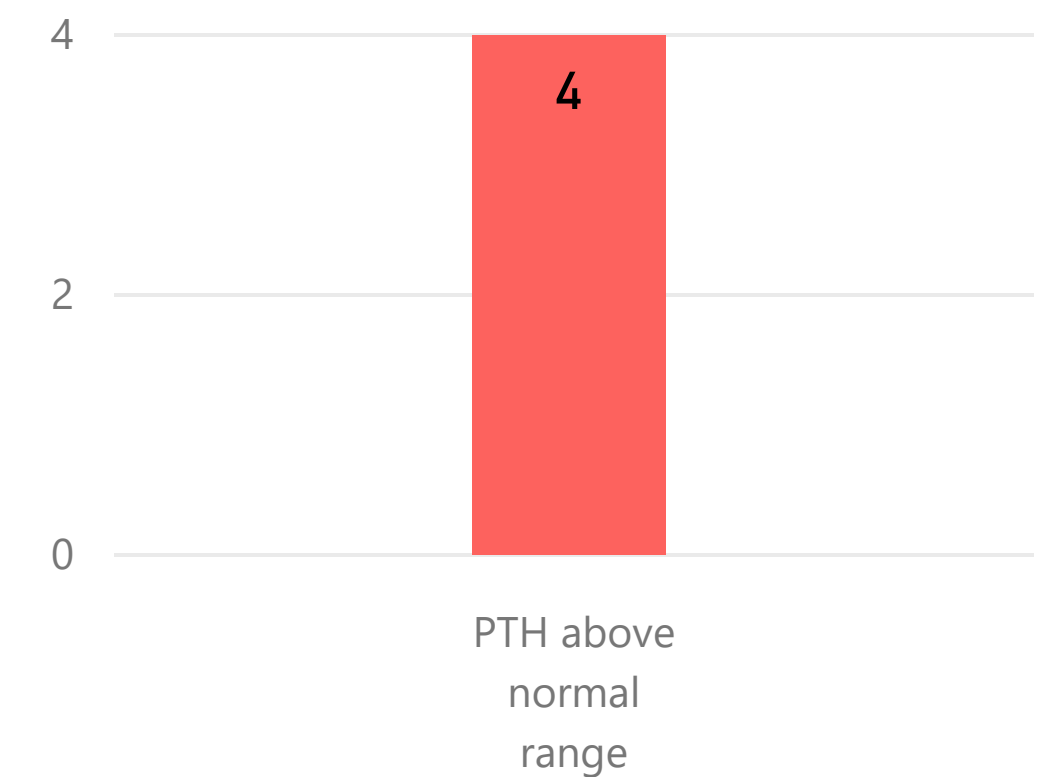
Calcium Status



PTH Status of Normocalcemic Patients or Patients on Ca / Vit D



PTH Status of Hypercalcemic Patients

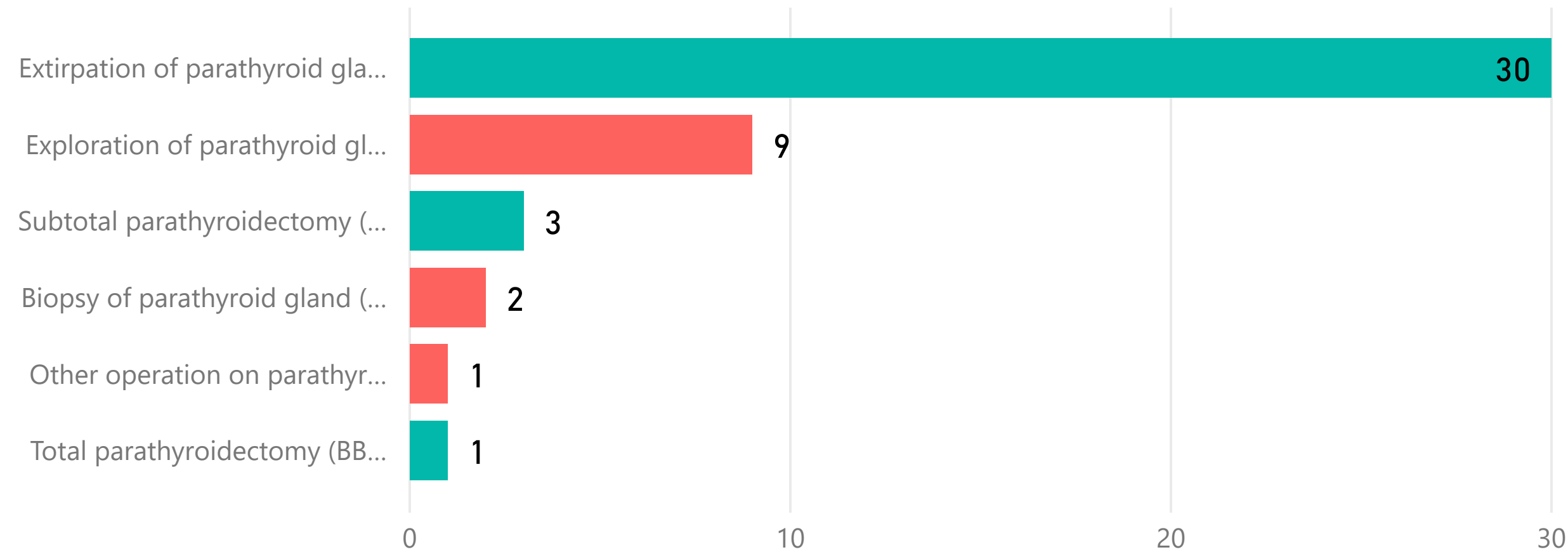


# Parathyroids

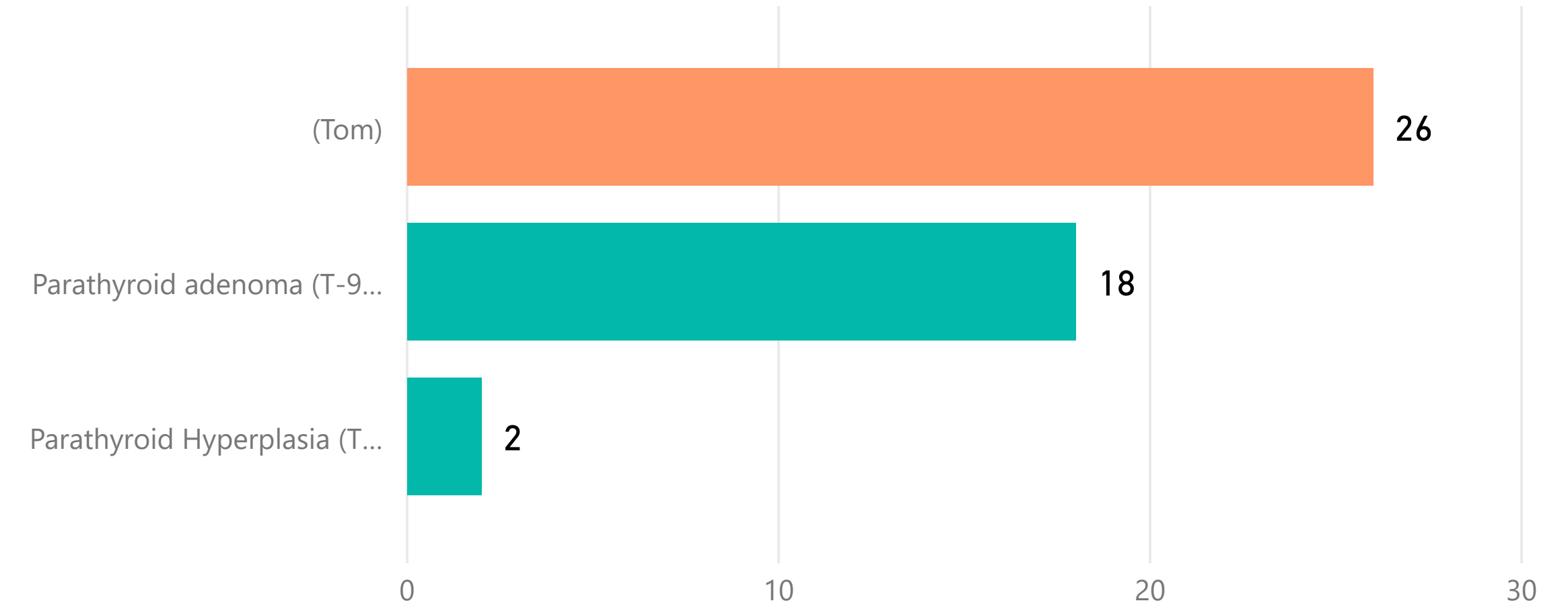
Potentially Negative Explorations with Possible Disease Persistence based on Selected Type of Operation or Main Histological Diagnosis



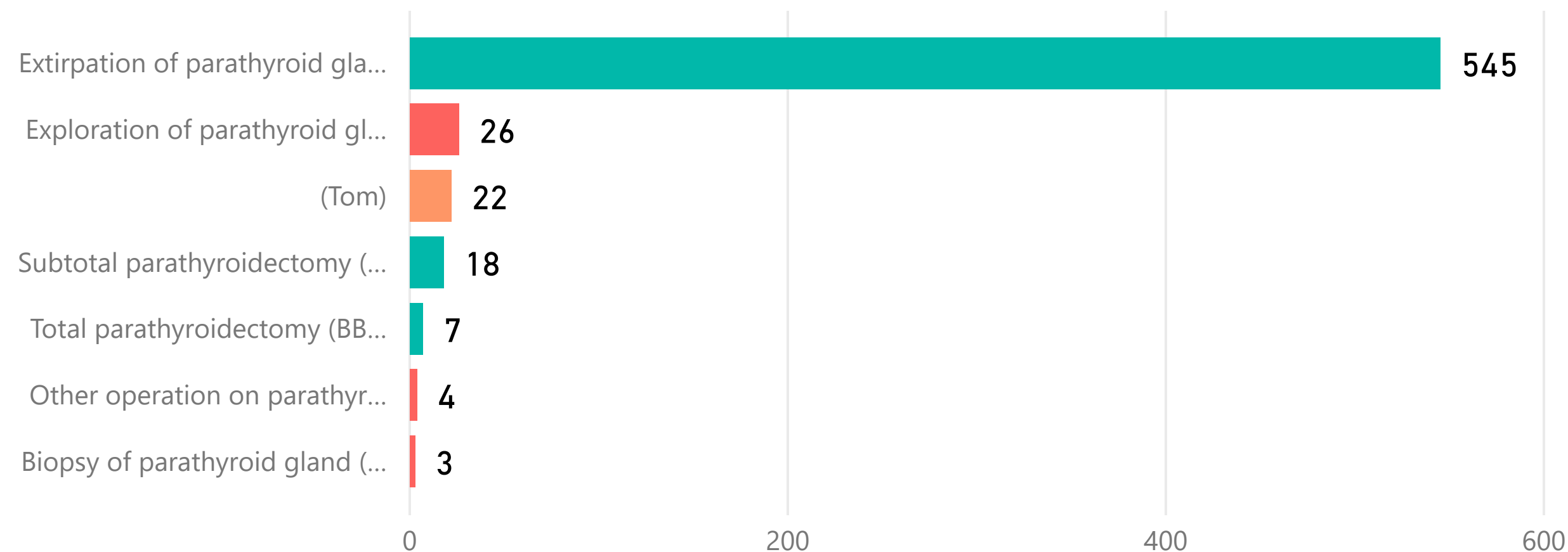
based on Selected Type of Operation



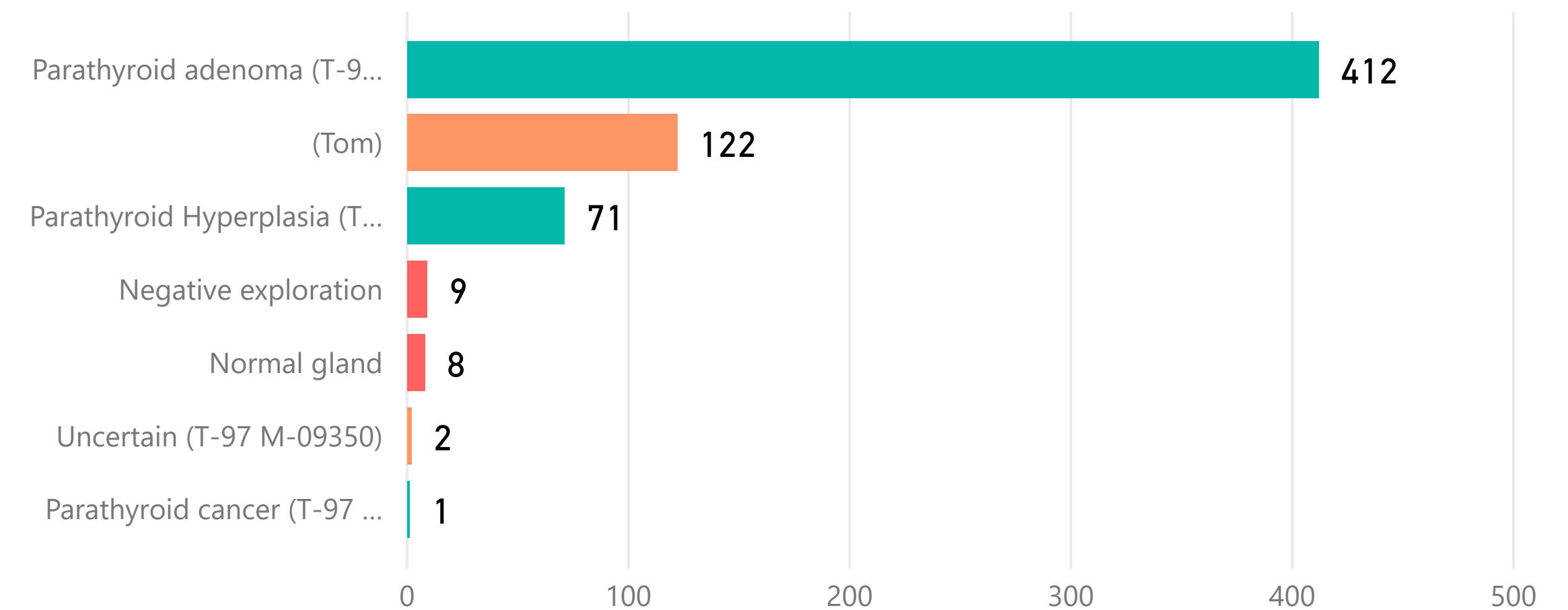
based on Selected Histological Main Diagnosis



based on Selected Type of Operation



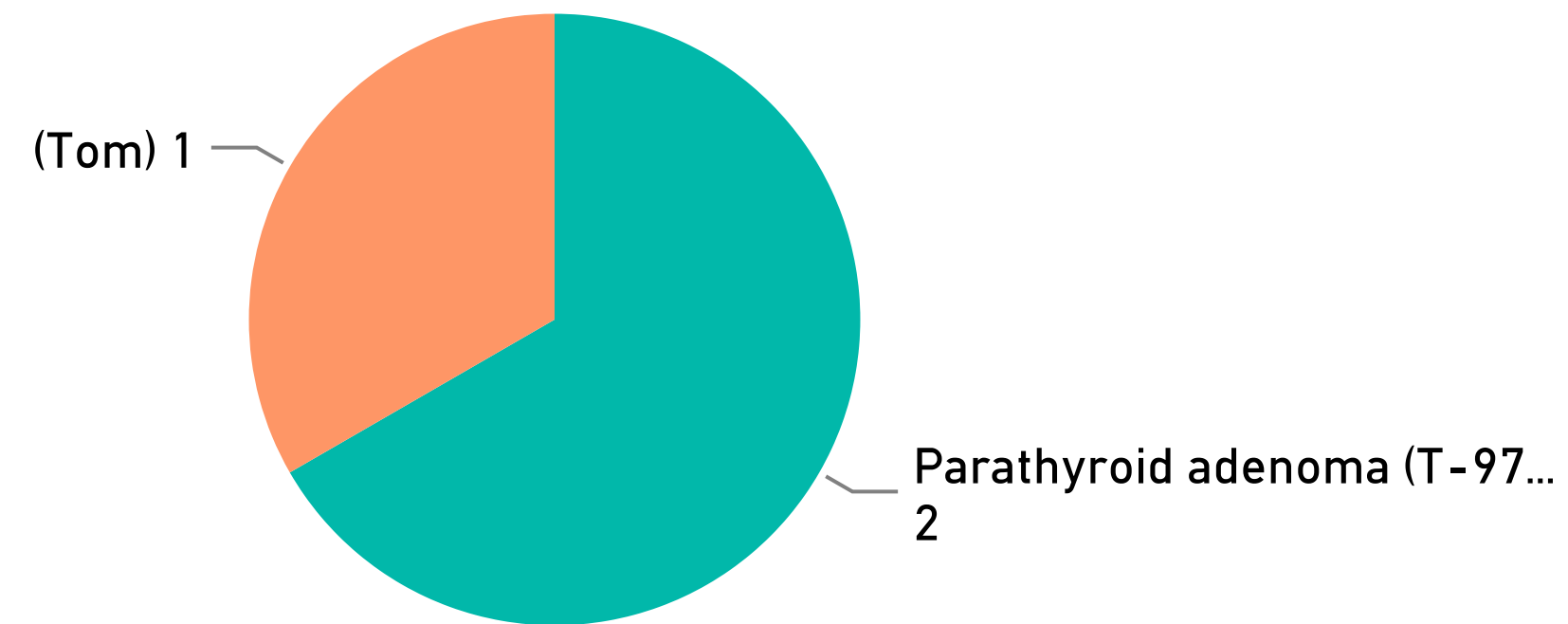
based on Selected Histological Main Diagnosis



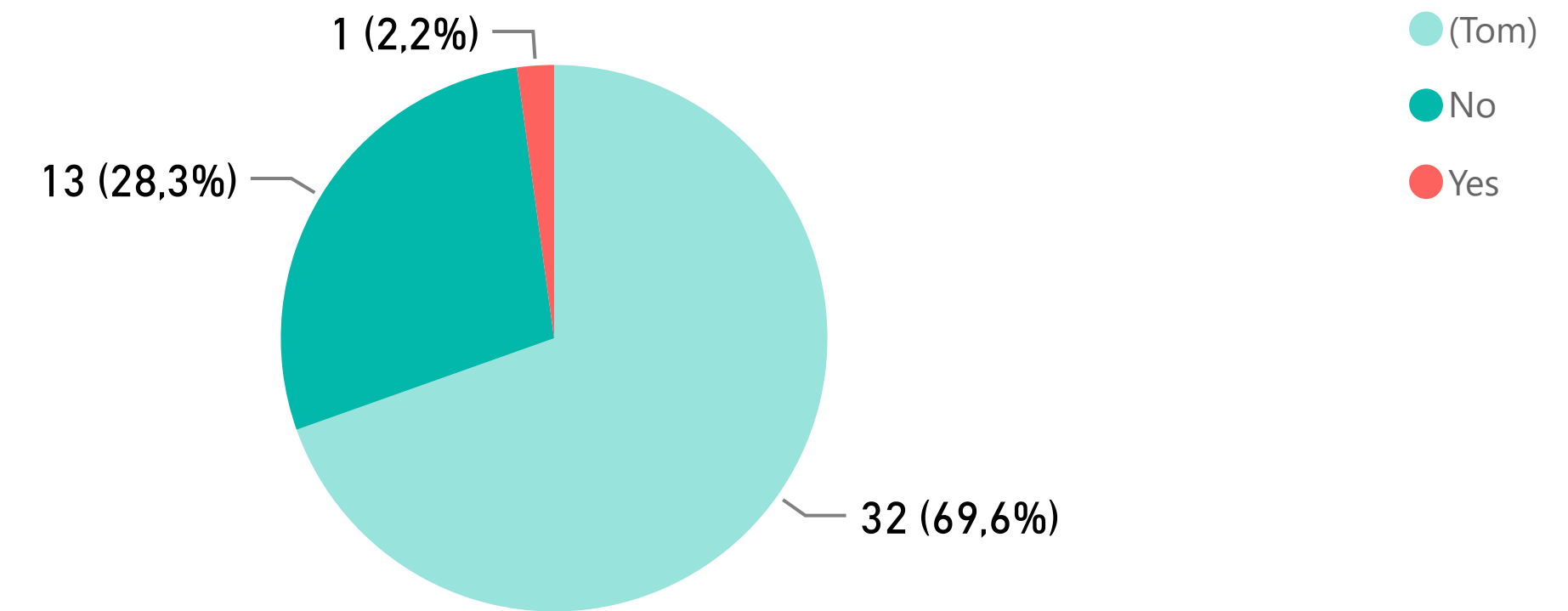
# Parathyroids

## Persistences and Re-Operations

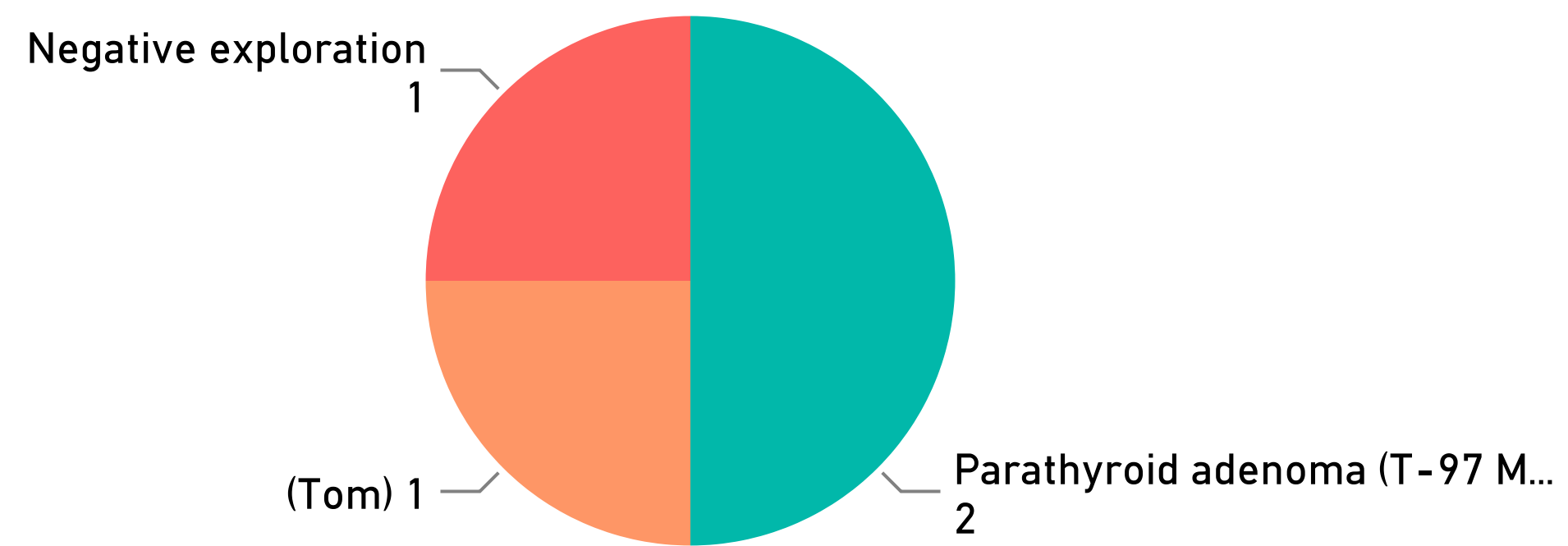
Histological Main Diagnosis in Patients with Persistent Hypercalcemia at Follow-up



Patients Reoperated for Persistence at Follow-up



Histological Main Diagnosis in Patients with Persistent Hypercalcemia at Follow-up



Patients Reoperated for Persistence at Follow-up

