

# EUROCRINE Benchmark Report on Operations for Primary Hyperparathyroidism



## Investigated Clinic

- Carlanderska Endokrlinkirurgi
- Gastro Center Skåne
- Kirurgiska kliniken, Borås
- Kirurgiska kliniken, Eksjö
- Kirurgiska kliniken, Falun
- Kirurgiska kliniken, Gävle
- Kirurgiska kliniken, Göteborg
- Kirurgiska kliniken, Halmstad
- Kirurgiska kliniken, Jönköping
- Kirurgiska kliniken, Kalmar
- Kirurgiska kliniken, Karlskrona
- Kirurgiska kliniken, Karlstad
- Kirurgiska kliniken, Kristianstad
- Kirurgiska kliniken, KS Solna
- Kirurgiska kliniken, Kungälv
- Kirurgiska kliniken, Linköping
- Kirurgiska kliniken, Luleå
- Kirurgiska kliniken, Lund
- Kirurgiska kliniken, Norrköping
- Kirurgiska kliniken, Nyköping
- Kirurgiska kliniken, Örebro
- Kiruraiska kliniken, Östersund

## Benchmark Clinics

- Markera alla
- Carlanderska Endokrlinkirurgi
- Gastro Center Skåne
- Kirurgiska kliniken, Borås
- Kirurgiska kliniken, Eksjö
- Kirurgiska kliniken, Falun
- Kirurgiska kliniken, Gävle
- Kirurgiska kliniken, Göteborg
- Kirurgiska kliniken, Halmstad
- Kirurgiska kliniken, Jönköping
- Kirurgiska kliniken, Kalmar
- Kirurgiska kliniken, Karlskrona
- Kirurgiska kliniken, Karlstad
- Kirurgiska kliniken, Kristianstad
- Kirurgiska kliniken, KS Solna
- Kirurgiska kliniken, Kungälv
- Kirurgiska kliniken, Linköping
- Kirurgiska kliniken, Luleå
- Kirurgiska kliniken, Lund
- Kirurgiska kliniken, Norrköping

## Investigated Year

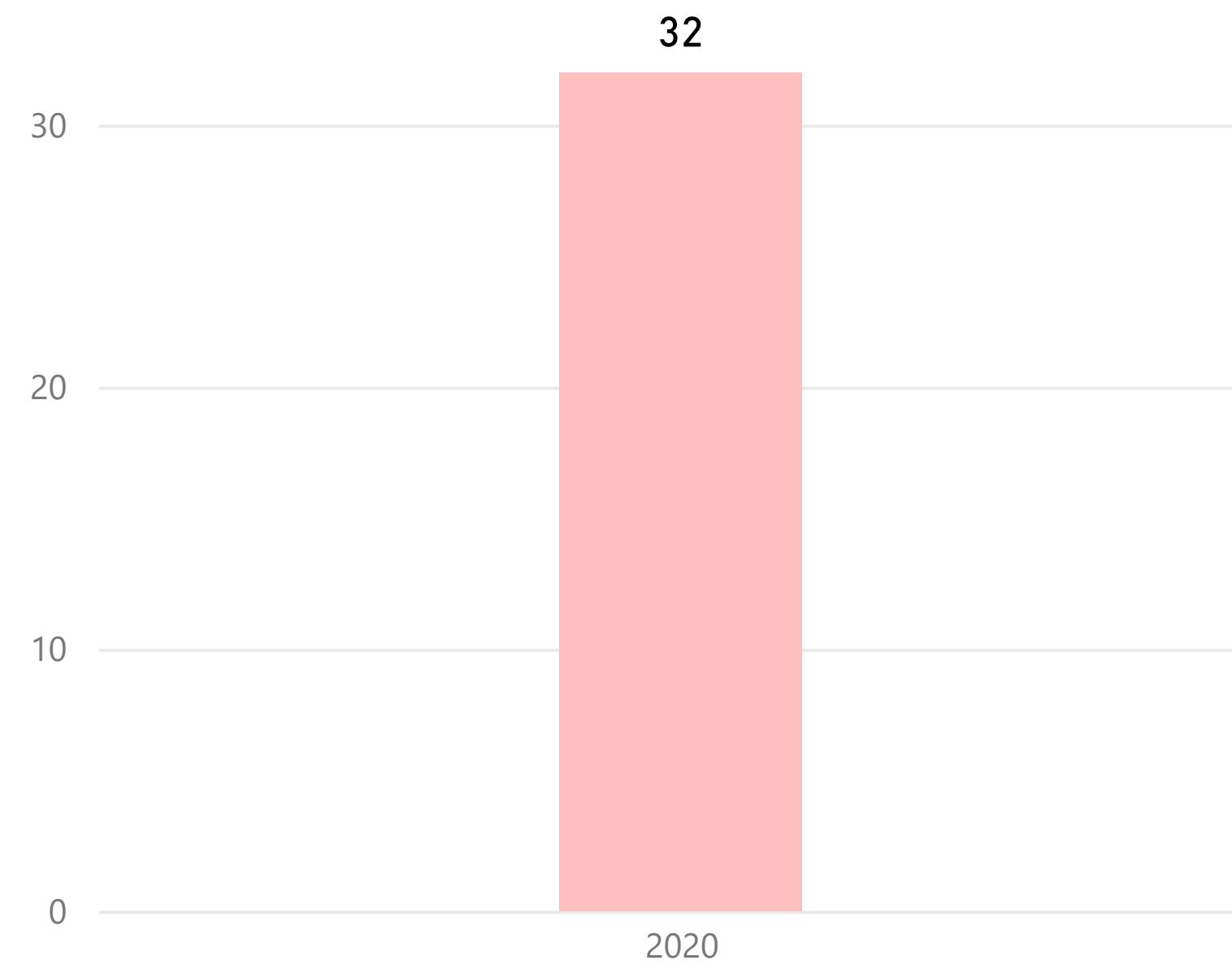
- Markera alla
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

Report compiled by Anders Bergenfelz, Thomas Clerici and Thomas Musholt

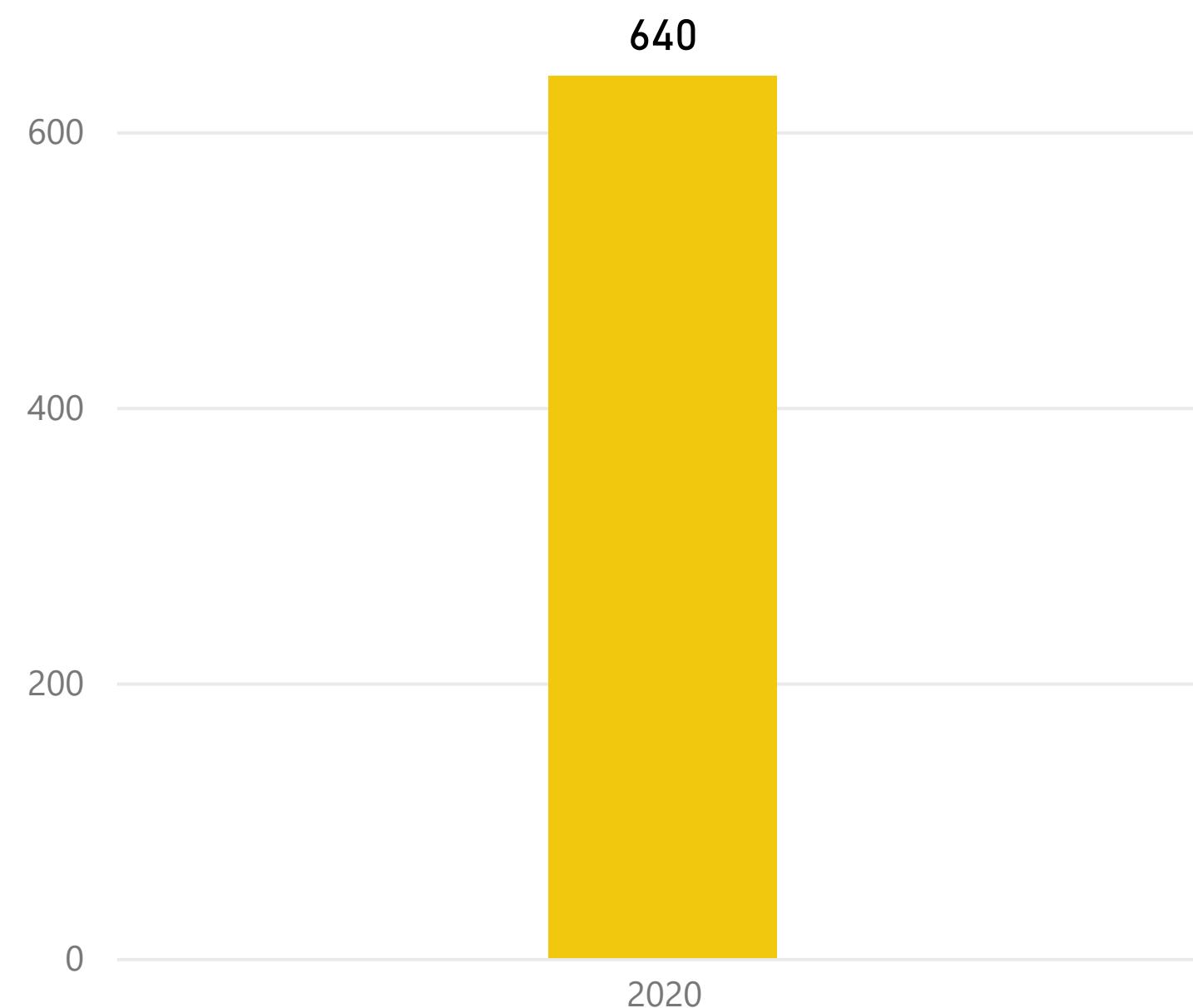
# EUROCRINE Benchmark Report on Operations for Primary Hyperparathyroidism



Registered Parathyroid Operations  
in Your Clinic



Registered Parathyroid Operations in  
Other EUROCRISE Clinics of Your Country



Investigated Year

- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

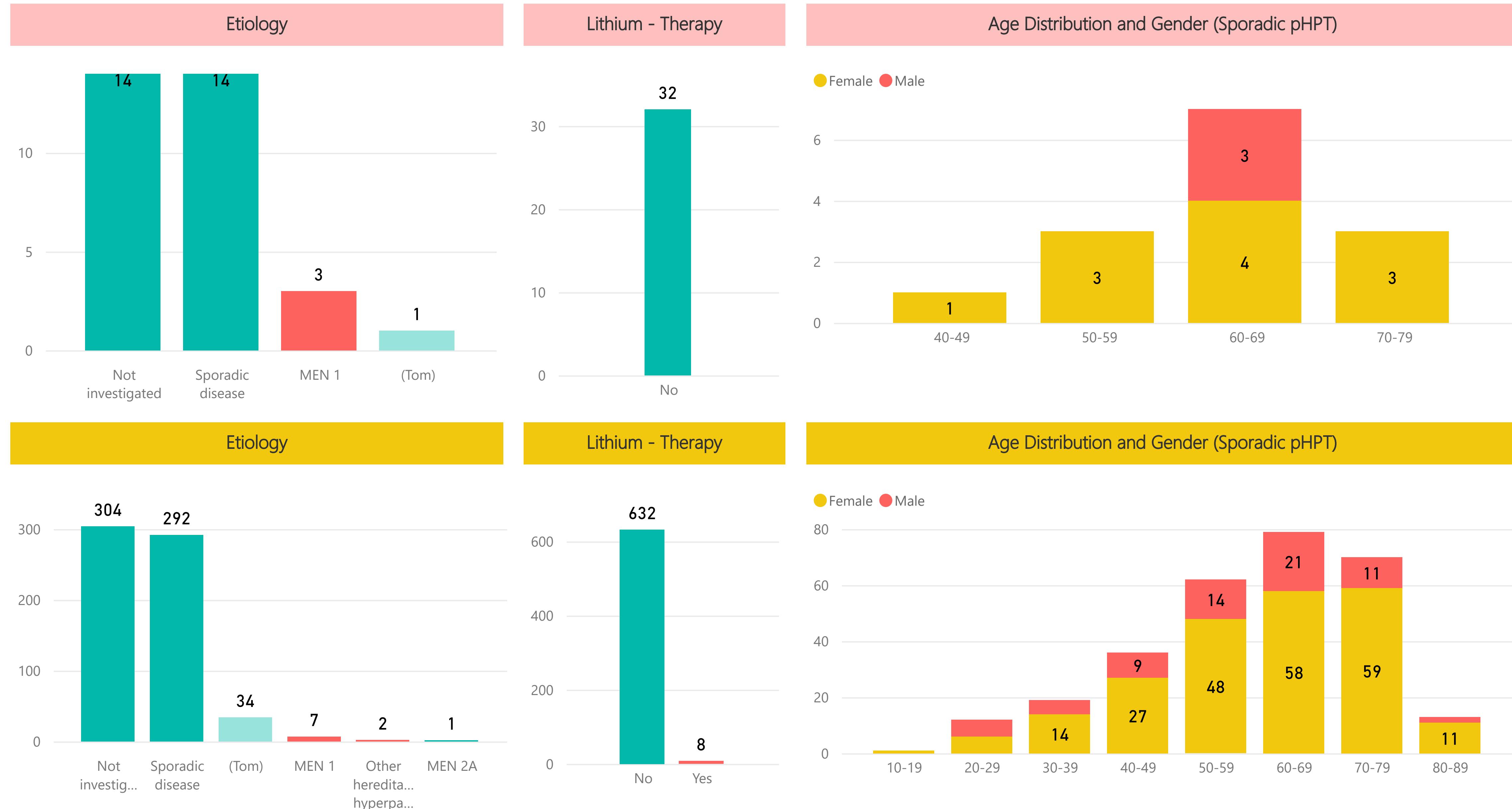
Color Coding in this Report:

Your Clinic

Other EUROCRISE Clinics in Your Country

# Parathyroids

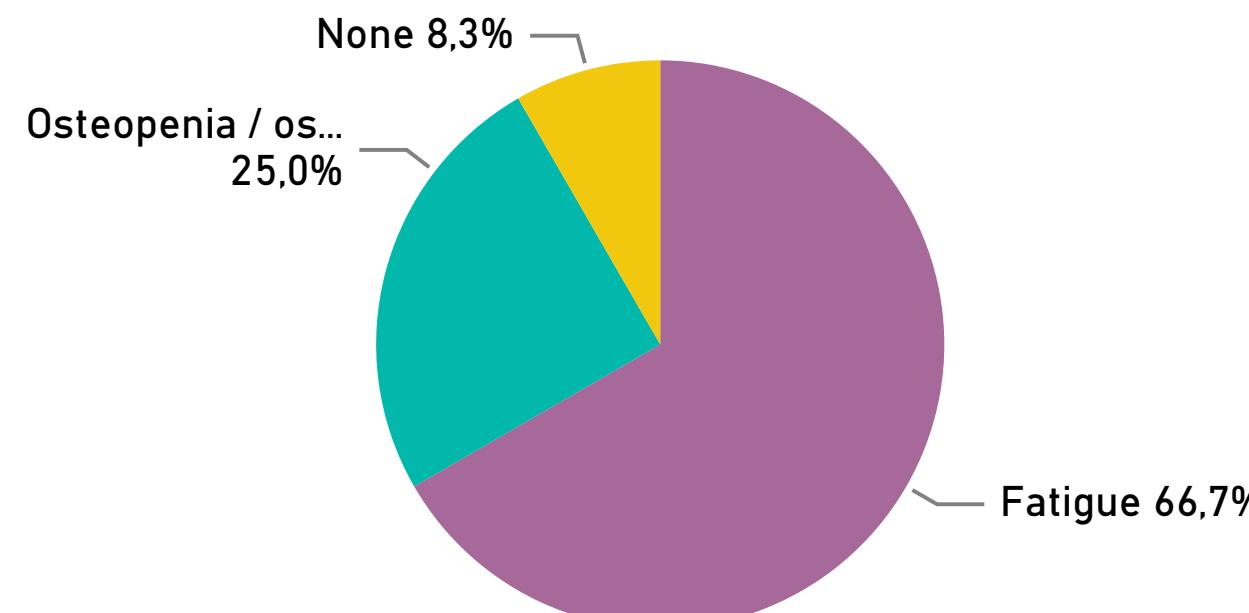
## Etiology, Age Distribution



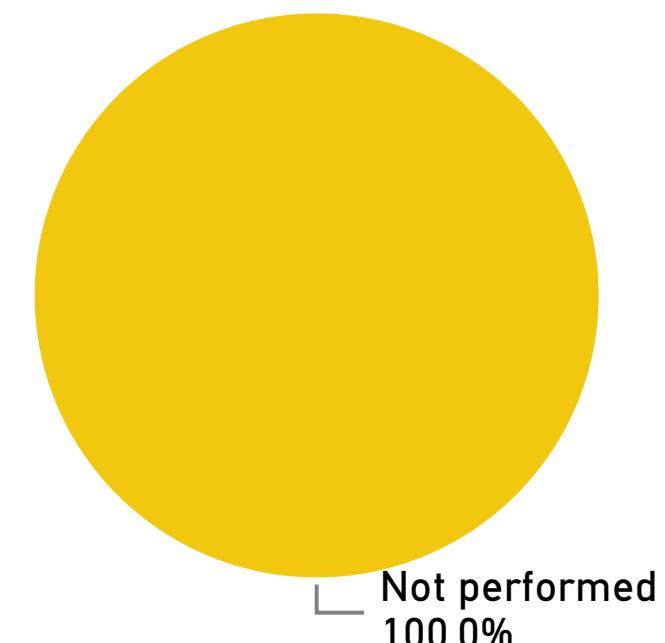
# Parathyroids

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

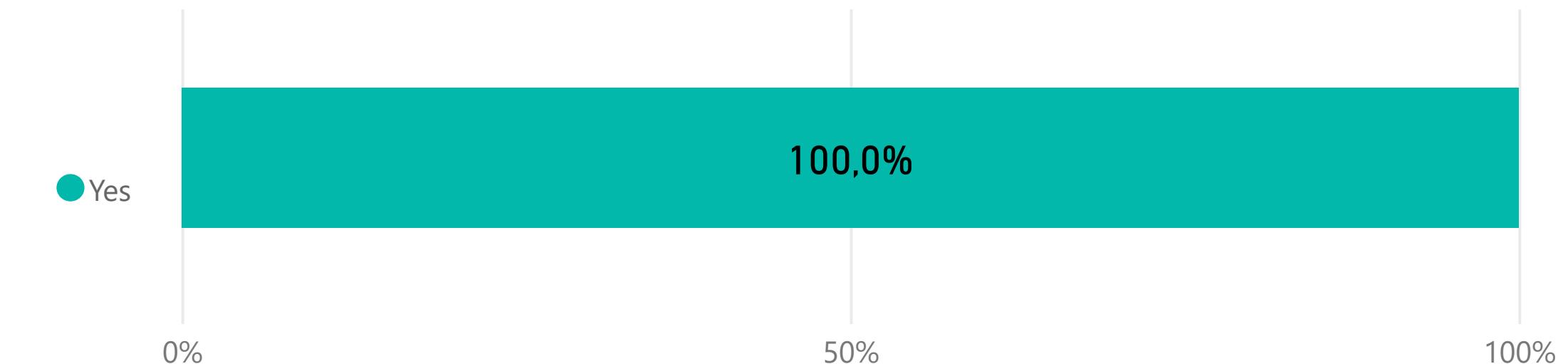
Preoperative Symptomatology



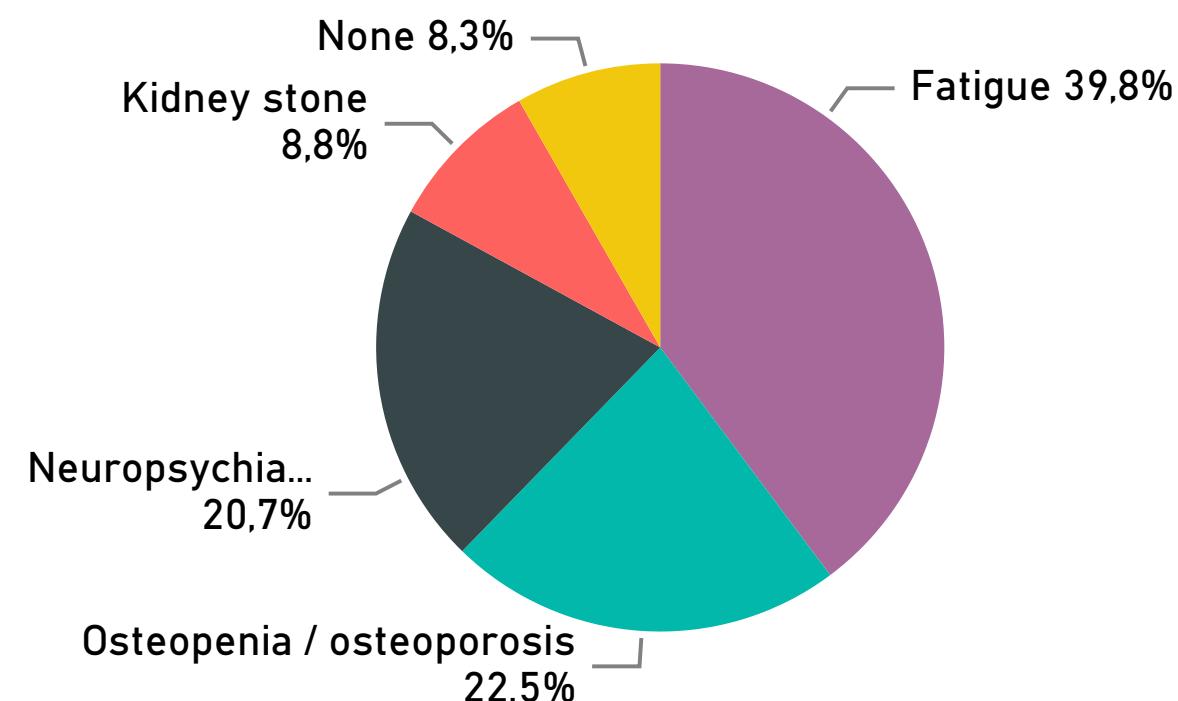
Preoperative Laryngoscopy



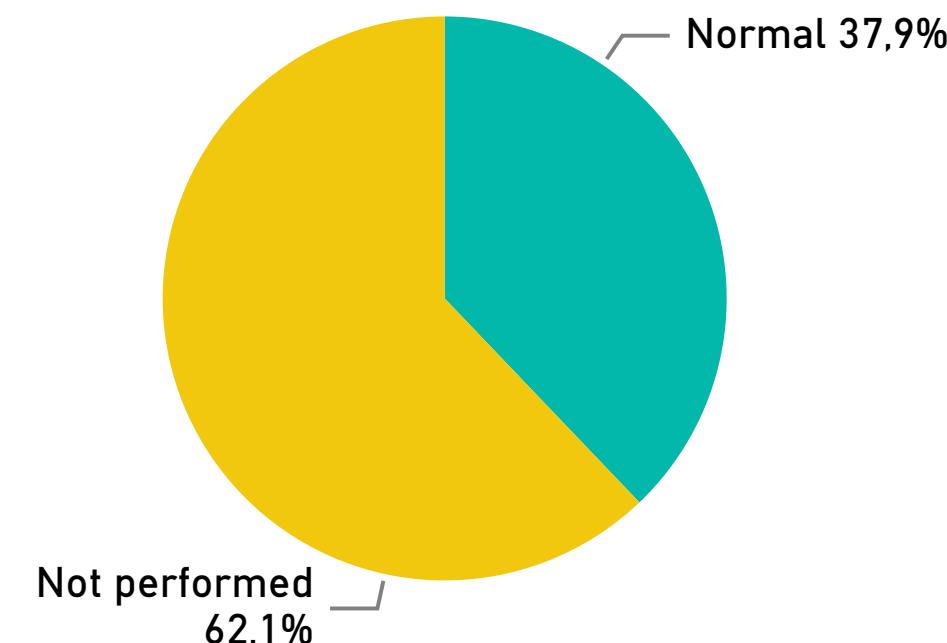
Localisation Examinations Performed



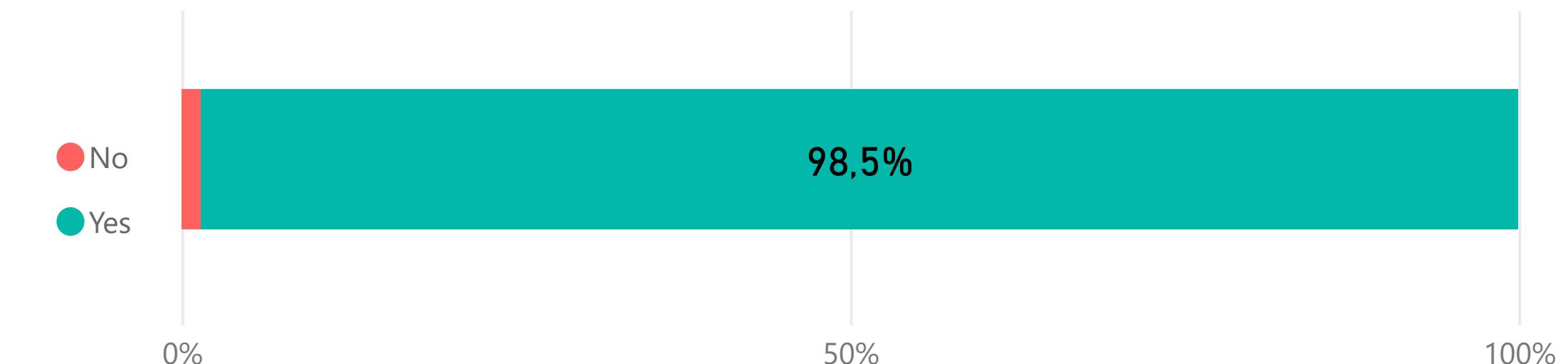
Preoperative Symptomatology



Preoperative Laryngoscopy



Localisation Examinations Performed



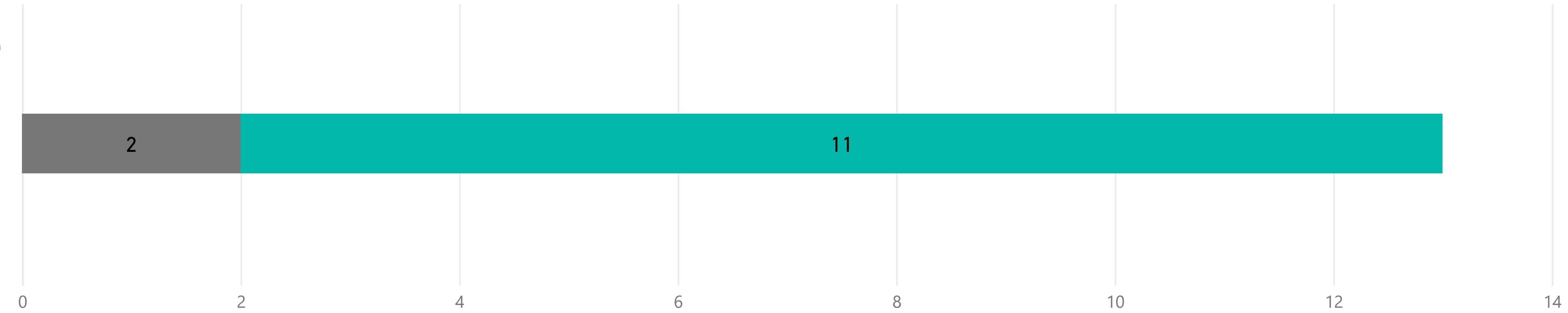
# Parathyroids

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

Preoperative Ultrasound in Relation to Intraoperative Finding

● Negative / inconclusive pre-op examination

● True pre-op localisation of solitary adenoma (TP)



Preoperative Ultrasound in Relation to Intraoperative Finding

● (Tom)

● Correct position of one pathological gland, but multiglandular disease ...

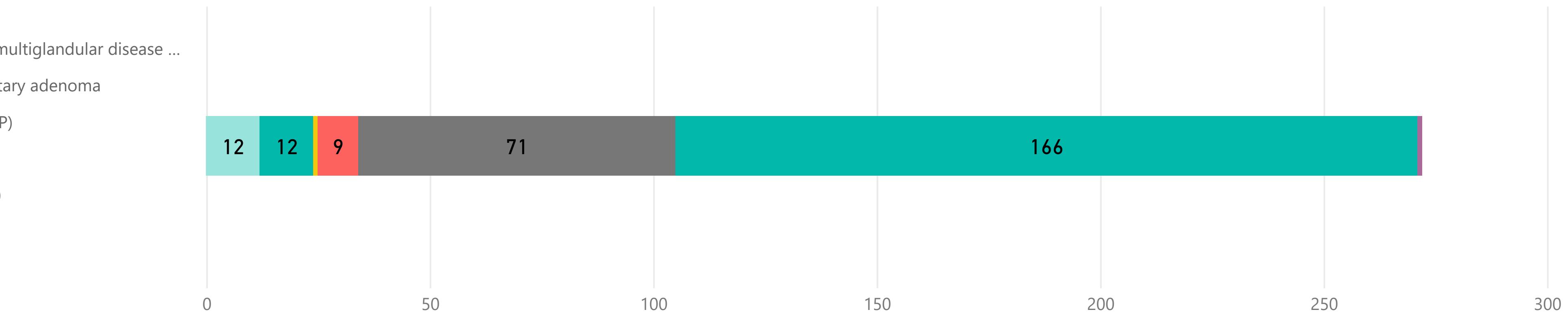
● False prediction of multiglandular disease in solitary adenoma

● False pre-op localisations of solitary adenoma (FP)

● Negative / inconclusive pre-op examination

● True pre-op localisation of solitary adenoma (TP)

● True pre-op prediction of multiglandular disease

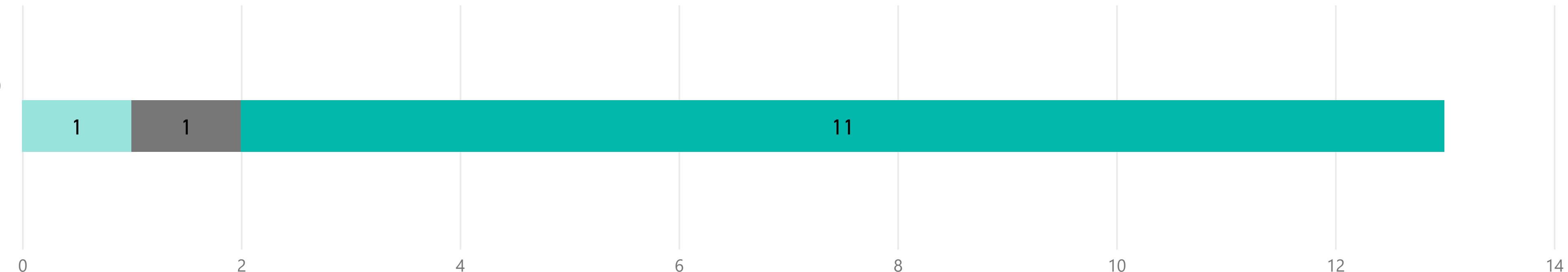


# Parathyroids

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

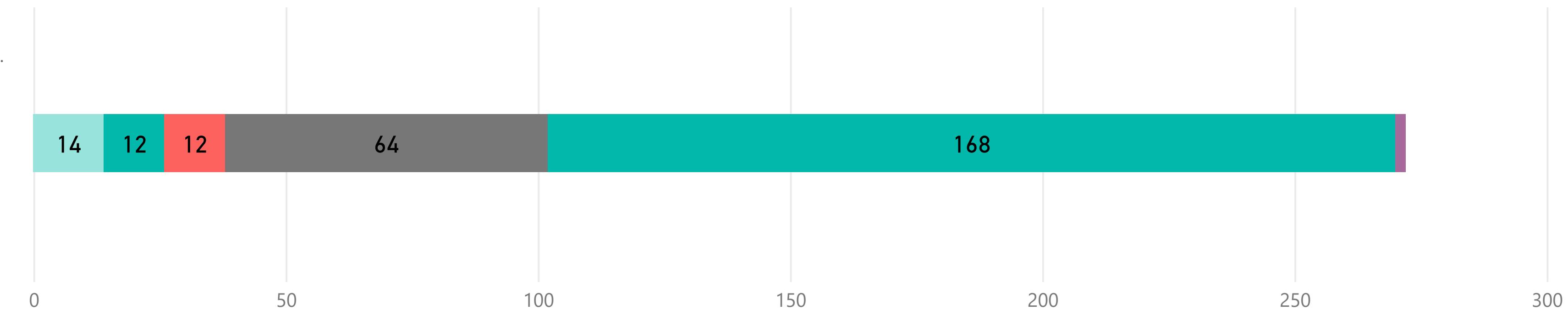
Preoperative Mibi-Scintigraphy in Relation to Intraoperative Finding

- (Tom)
- Negative / inconclusive pre-op examination
- True pre-op localisation of solitary adenoma (TP)



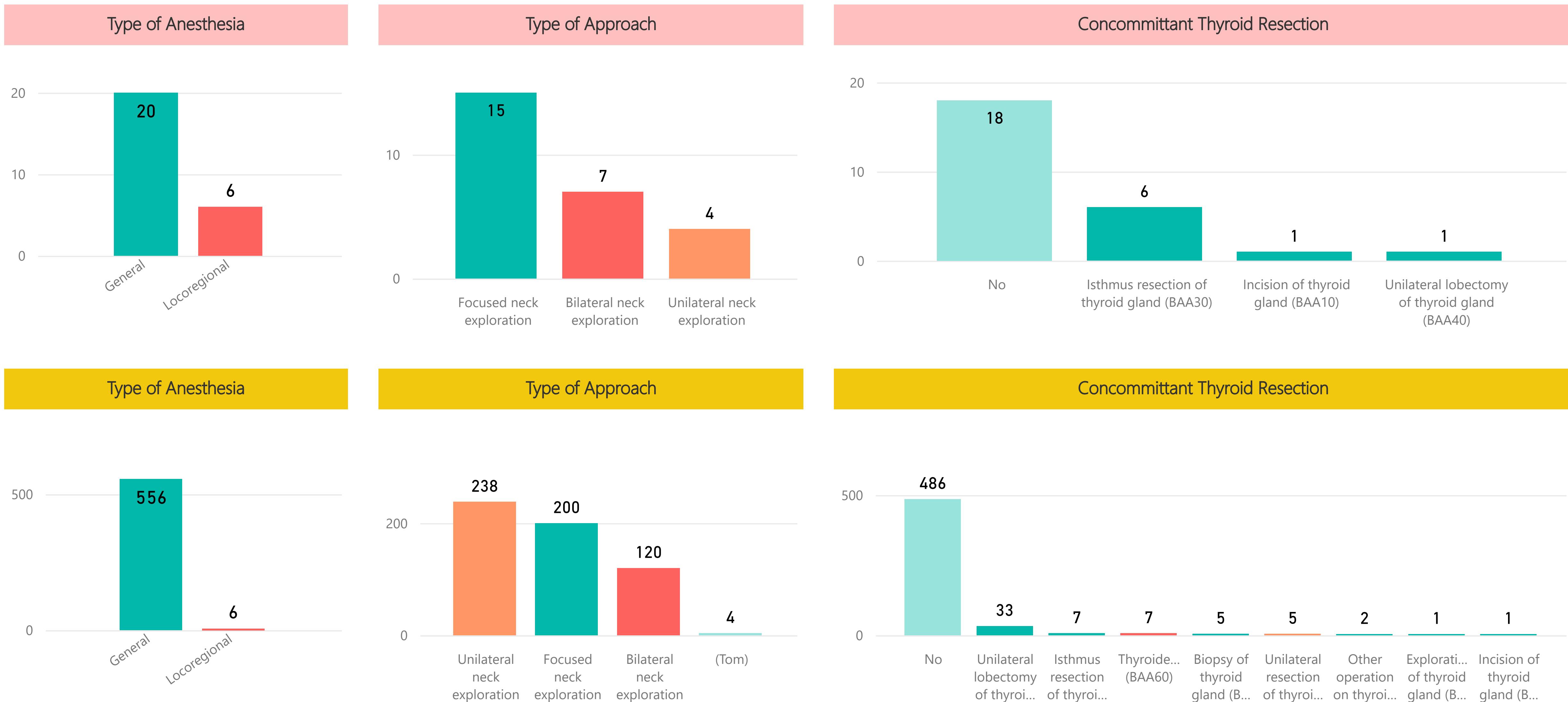
Preoperative Mibi-Scintigraphy in Relation to Intraoperative Finding

- (Tom)
- Correct position of one pathological gland, but multiglandular disease ...
- False pre-op localisations of solitary adenoma (FP)
- Negative / inconclusive pre-op examination
- True pre-op localisation of solitary adenoma (TP)
- True pre-op prediction of multiglandular disease



# Parathyroids

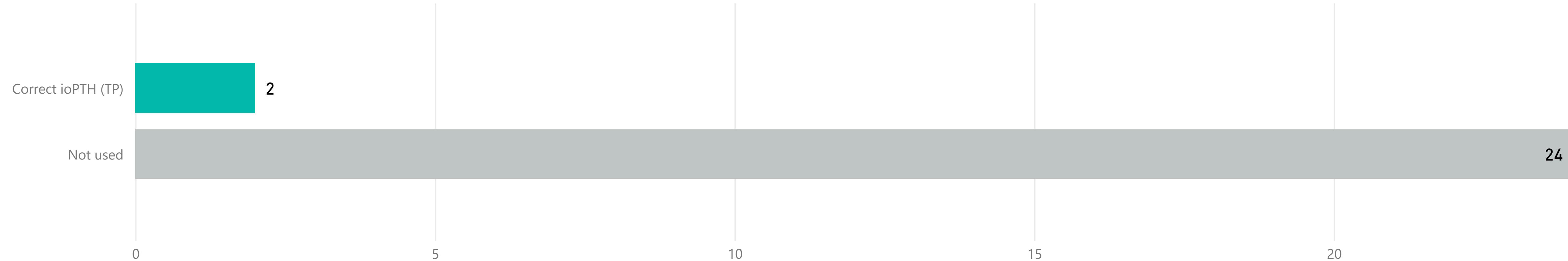
## Characteristics of Primary Operations, Sporadic Disease



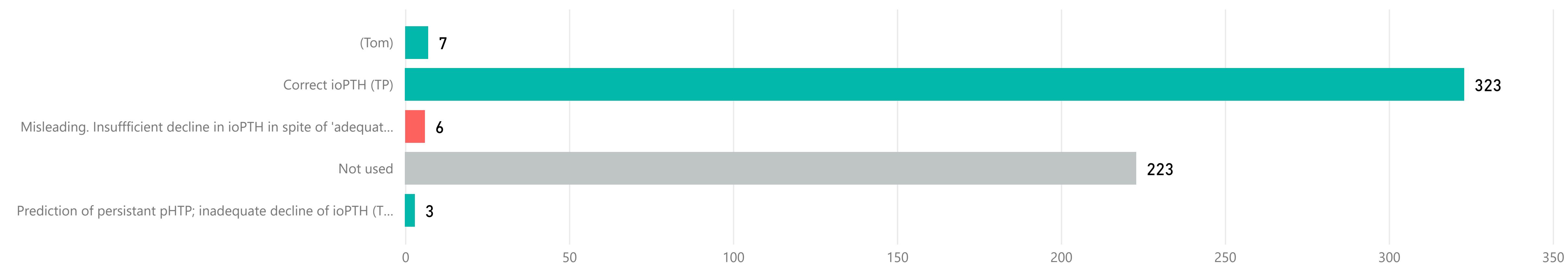
# Parathyroids

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

PTH-Monitoring Results



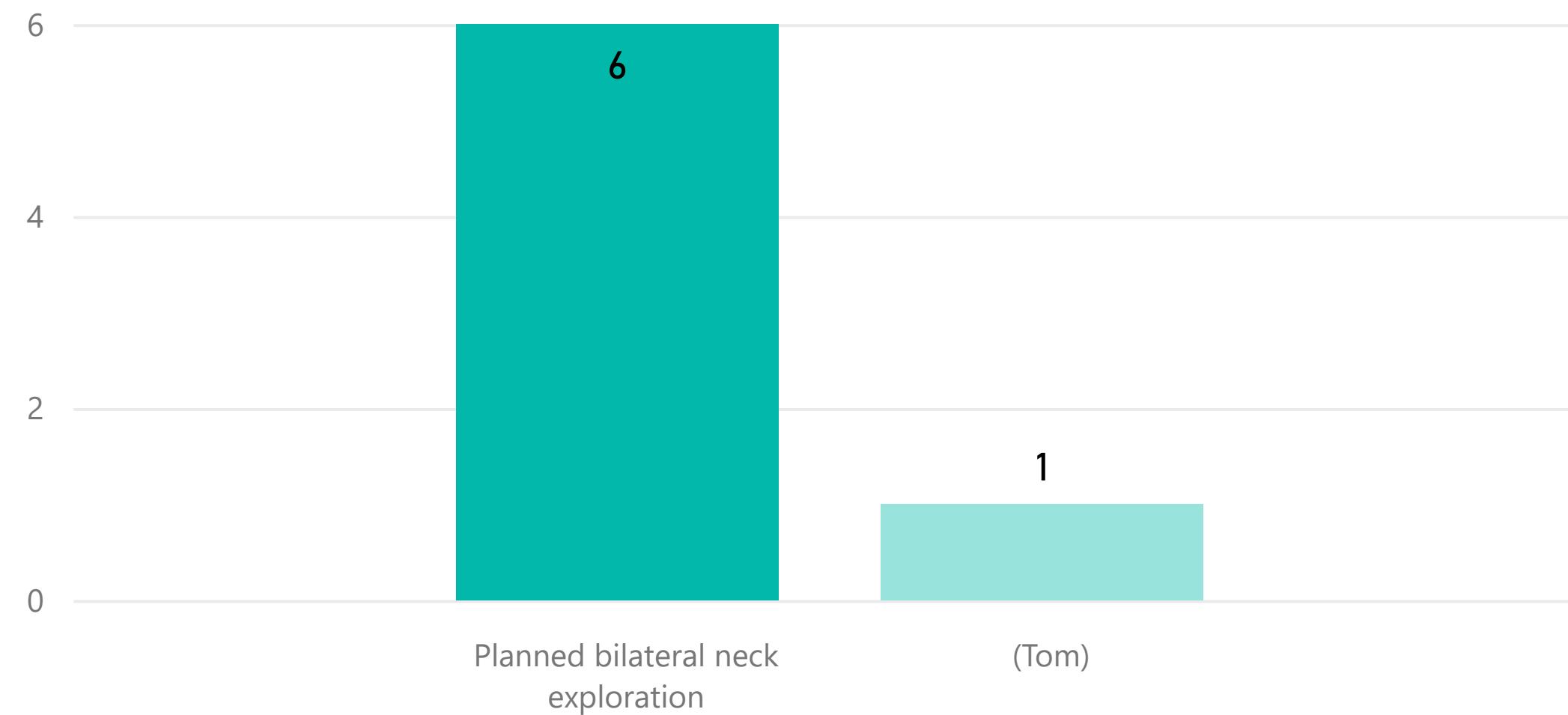
PTH-Monitoring Results



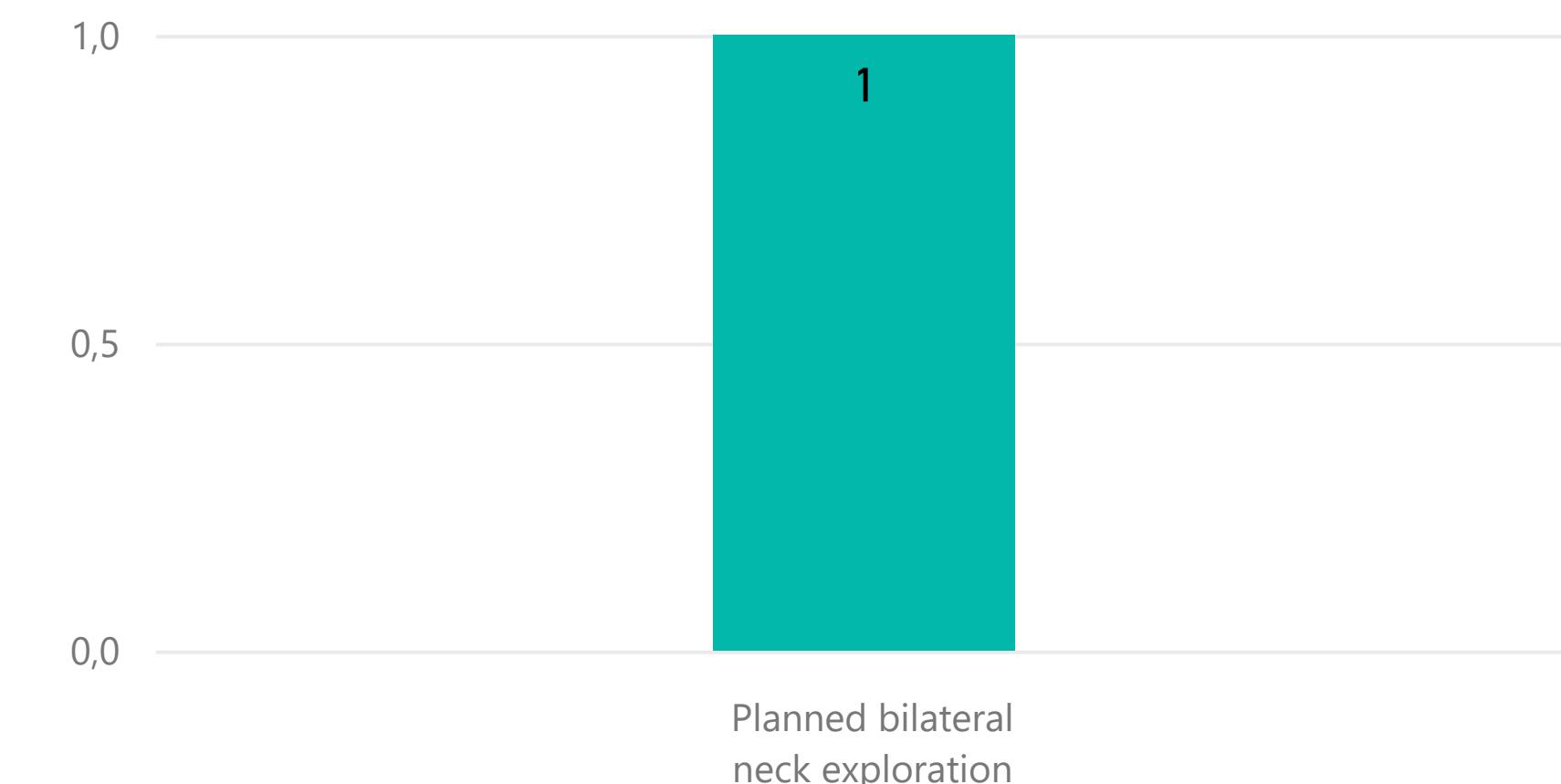
# Parathyroids

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

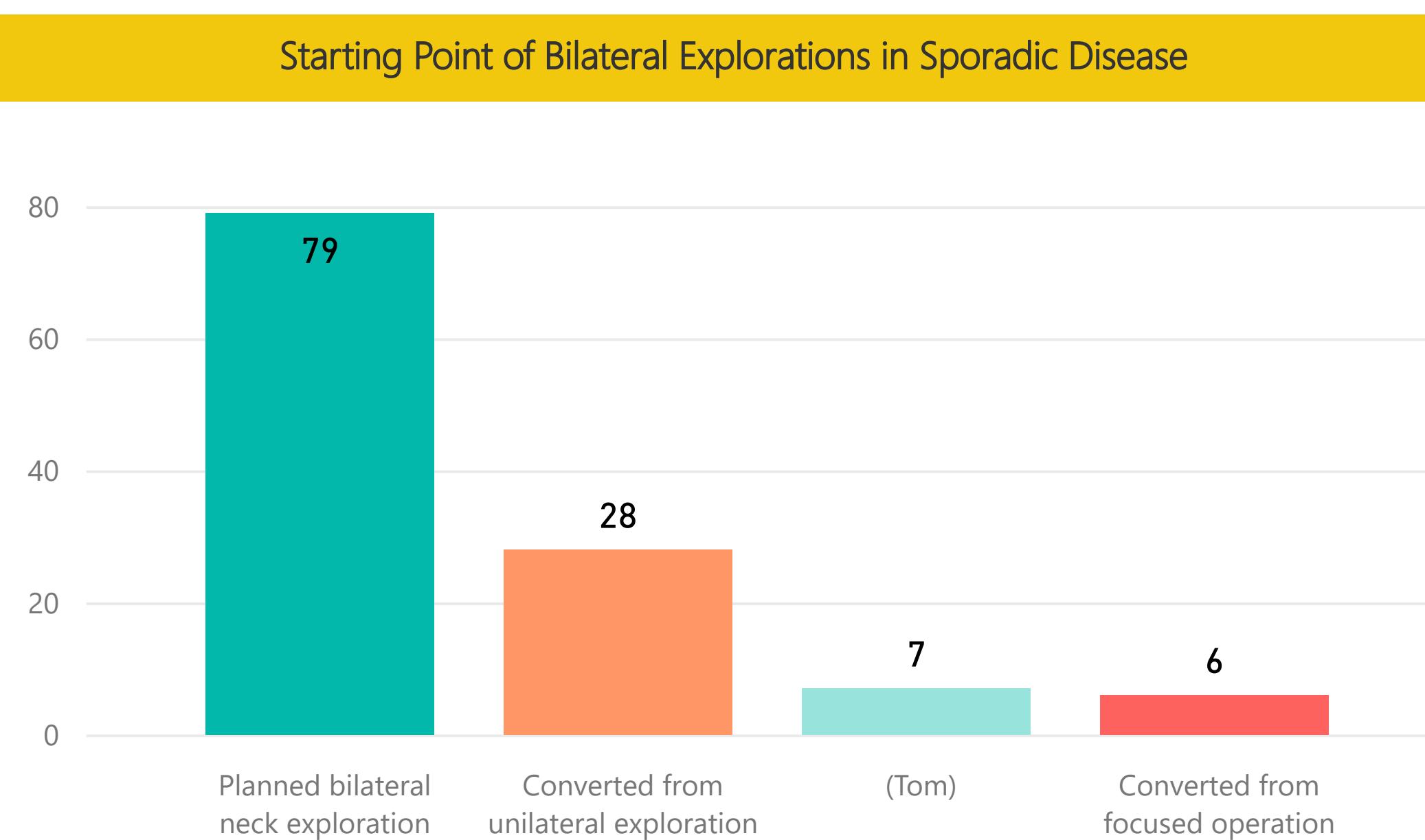
Starting Point of Bilateral Explorations in Sporadic Disease



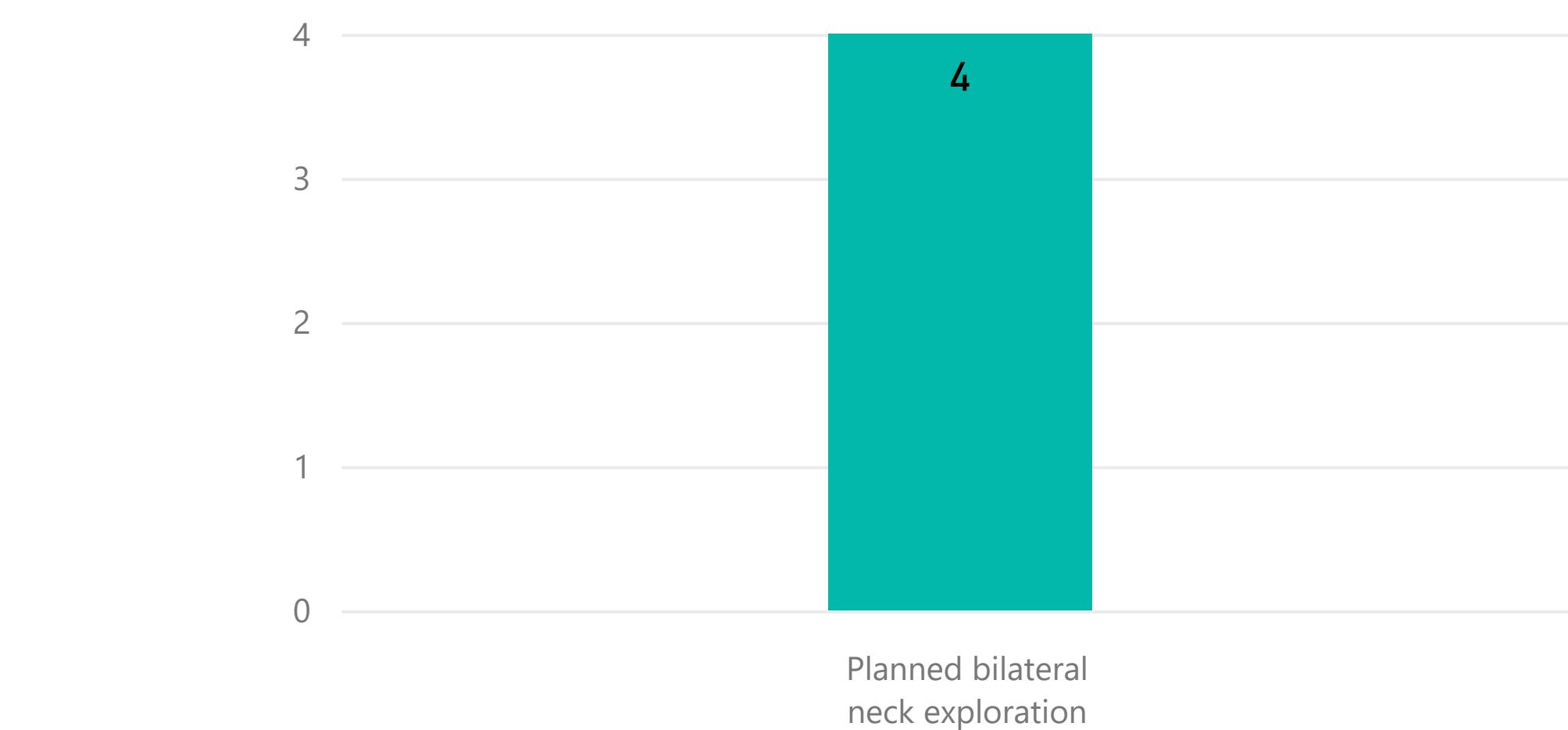
Starting Point of Bilateral Explorations in Hereditary Disease



Starting Point of Bilateral Explorations in Sporadic Disease

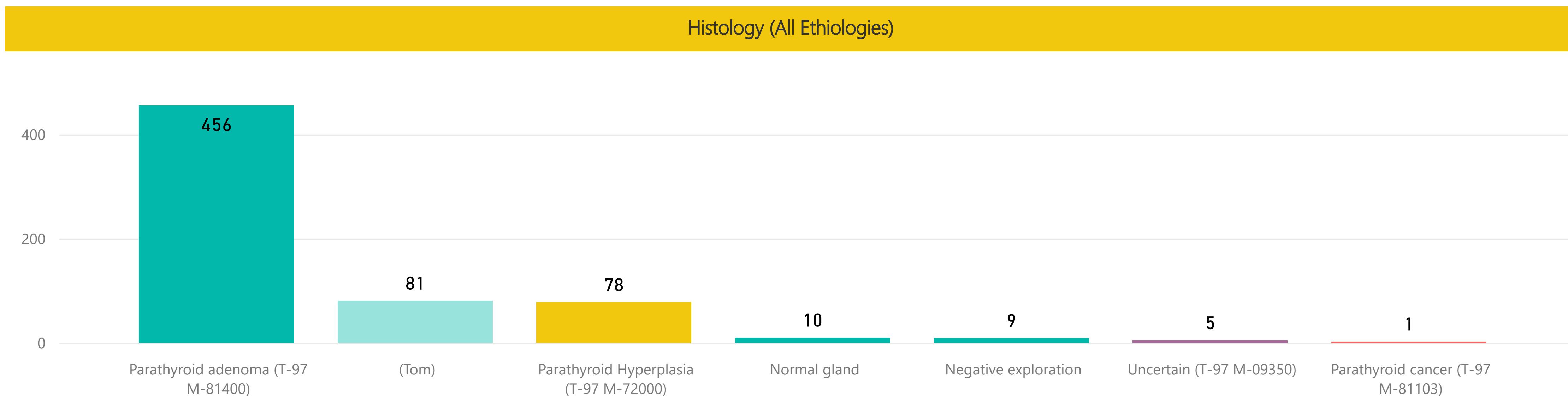
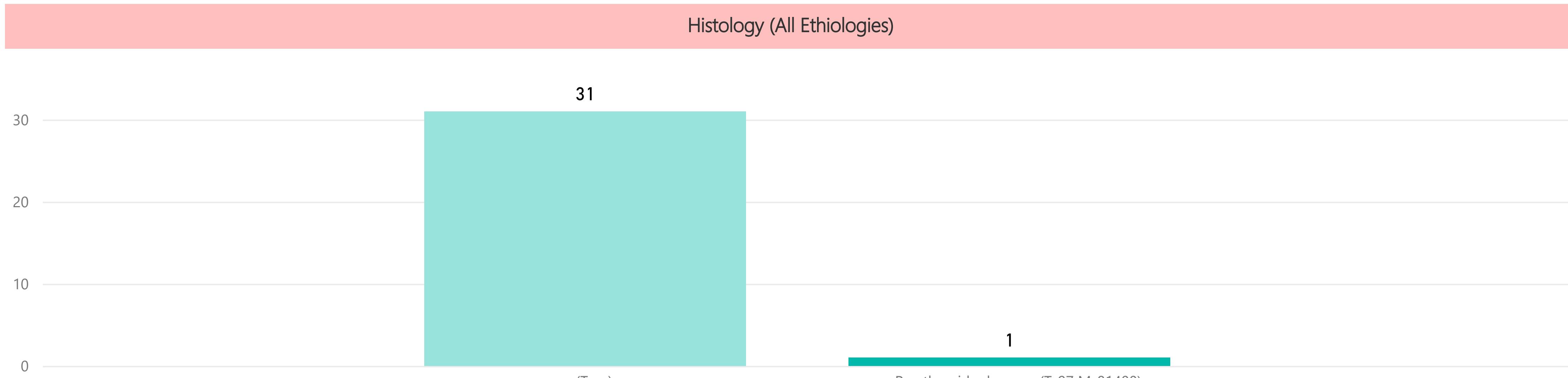


Starting Point of Bilateral Explorations in Hereditary Disease



# Parathyroids

## Histopathology Results

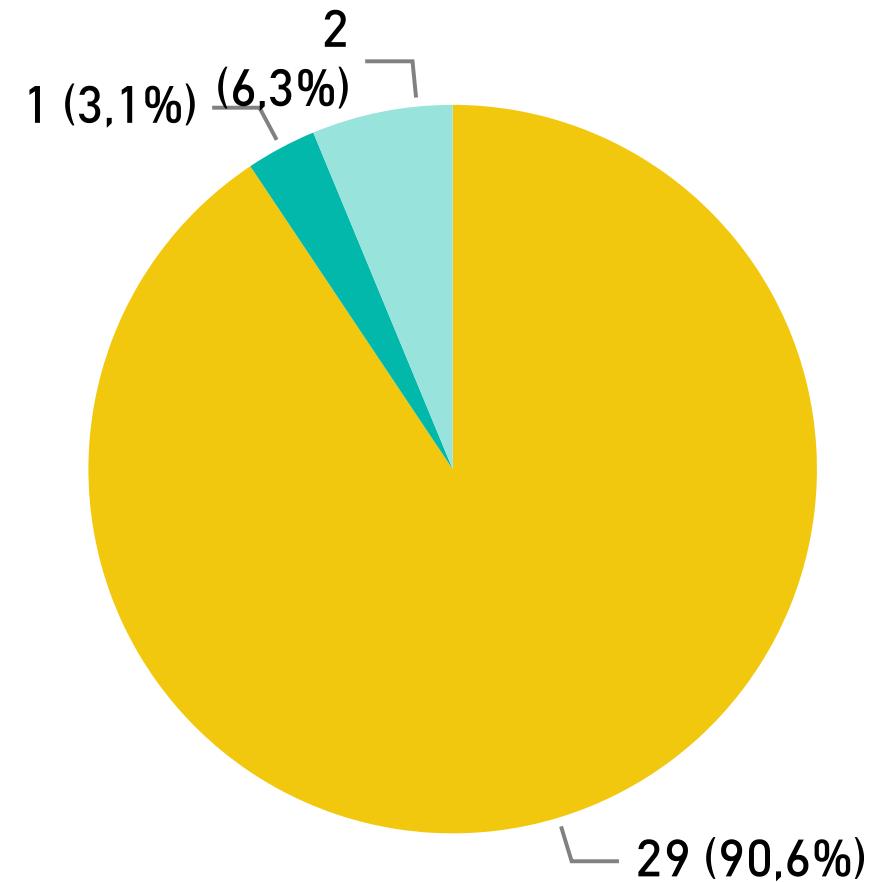


# Parathyroids

## Postoperative Laryngoscopy

### Postoperative Laryngoscopy

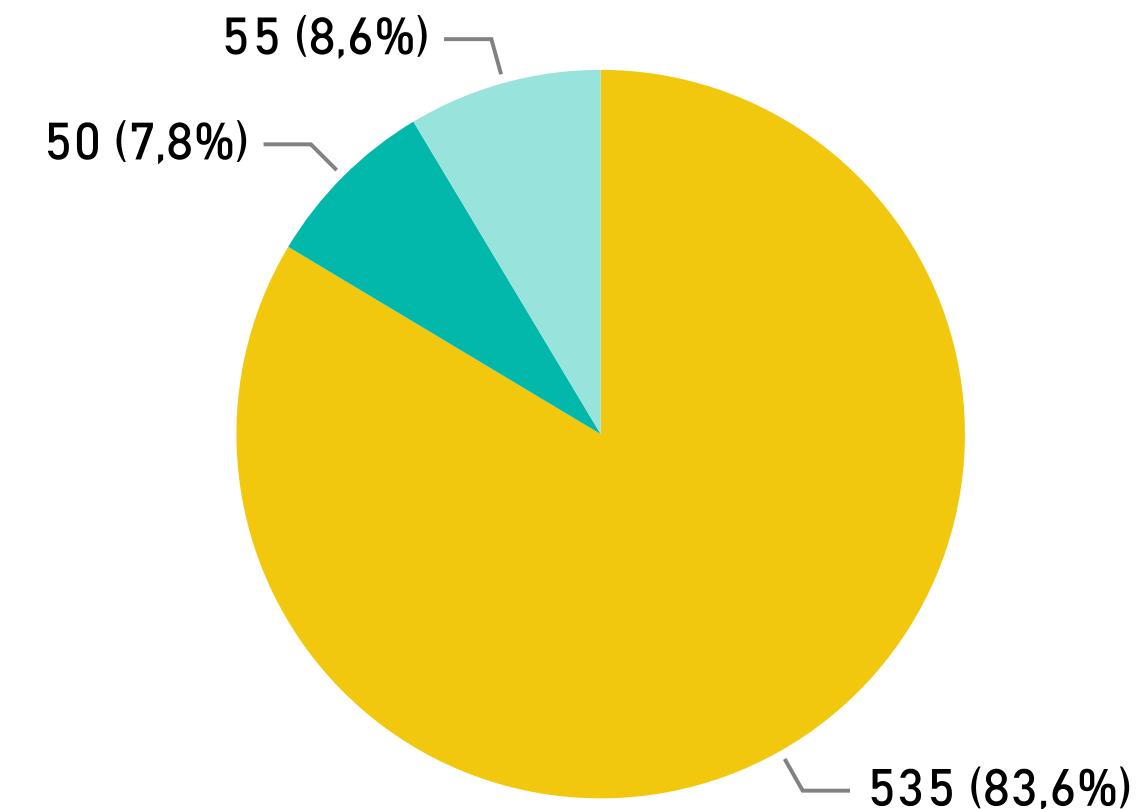
- Not performed
- Normal
- (Tom)



Postoperative Laryngoscopy	n	%
Not performed	29	90,63%
Normal	1	3,13%
(Tom)	2	6,25%
Totalt	32	100,00%

### Postoperative Laryngoscopy

- Not performed
- Normal
- (Tom)



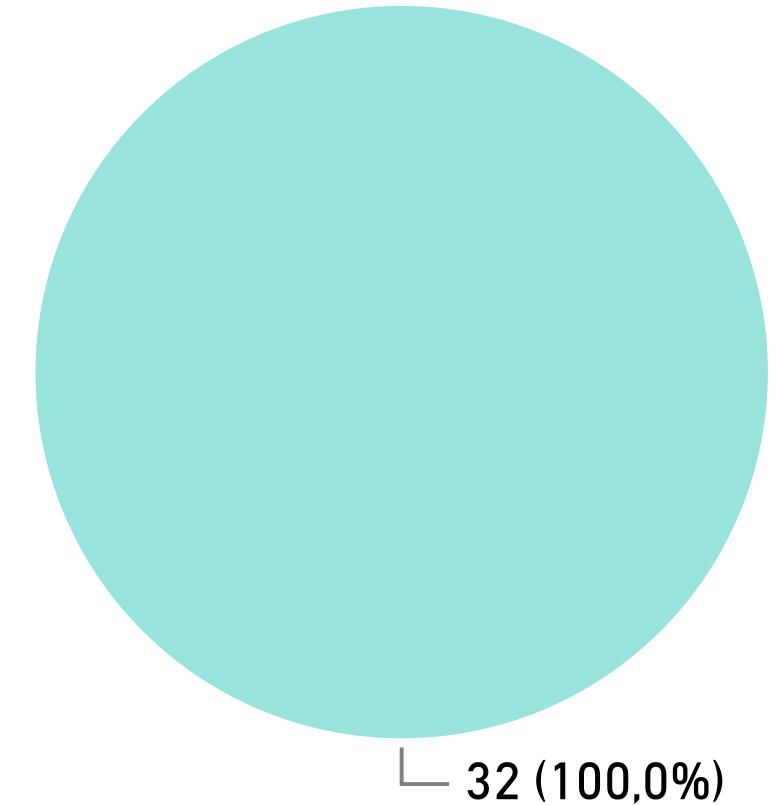
Postoperative Laryngoscopy	n	%
Not performed	535	83,59%
Normal	50	7,81%
(Tom)	55	8,59%
Totalt	640	100,00%

# Parathyroids

## Laryngoscopy at Follow-up (F2)

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

(Tom)



Laryngoscopy at Follow-up	n	%
▲	32	100,00%
<b>Totalt</b>	<b>32</b>	<b>100,00%</b>

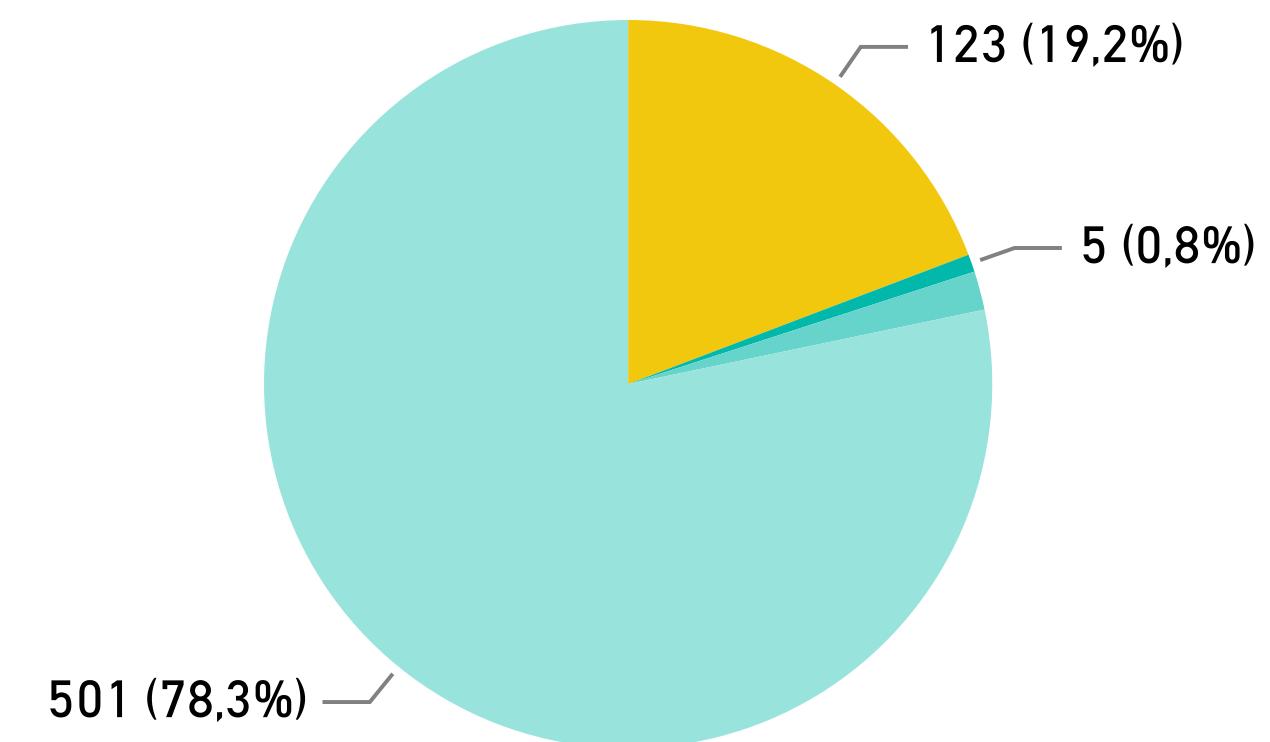
### Laryngoscopy at Longterm Follow-up (F2)

Not performed

Normal

No data available

(Tom)

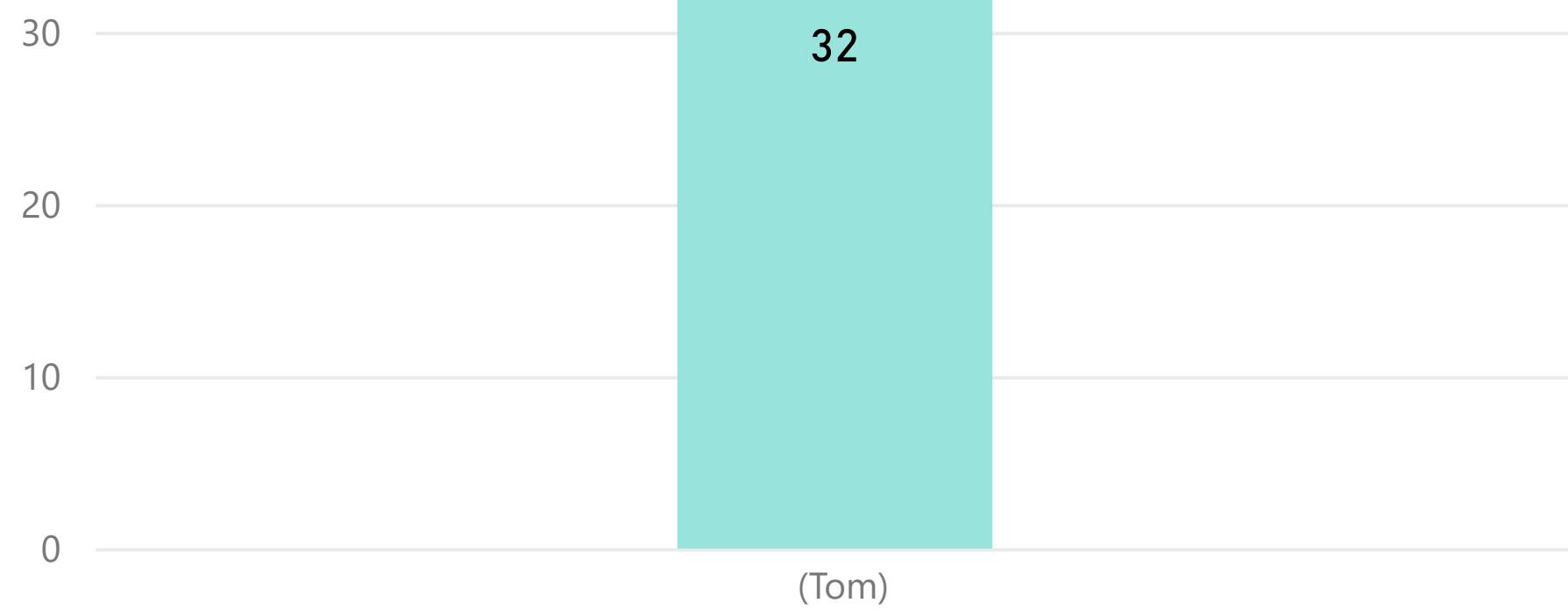


Laryngoscopy at Follow-up	n	%
▲	501	78,28%
No data available	11	1,72%
Normal	5	0,78%
Not performed	123	19,22%
<b>Totalt</b>	<b>640</b>	<b>100,00%</b>

# Parathyroids

## Follow-up Data

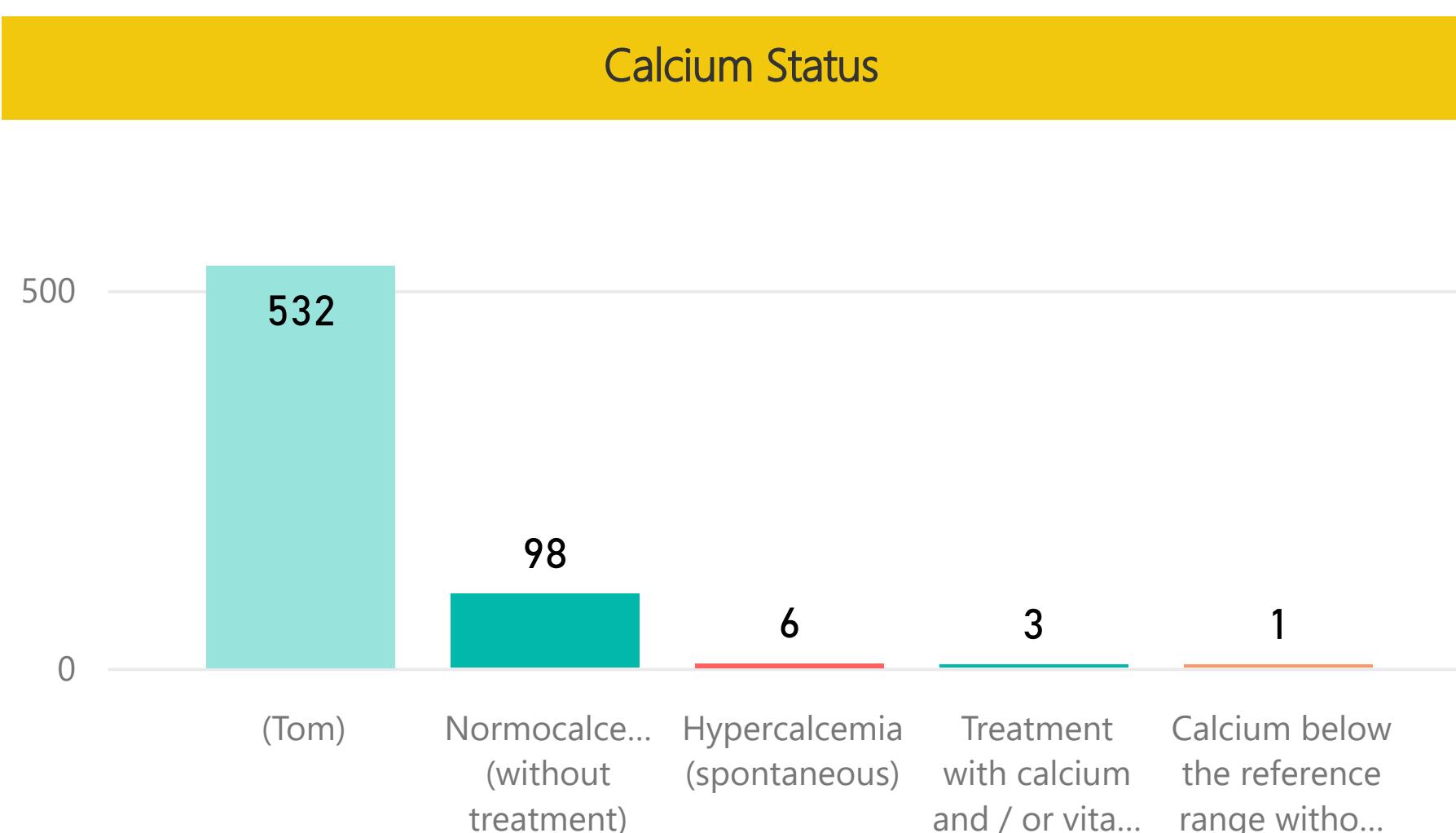
Calcium Status



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

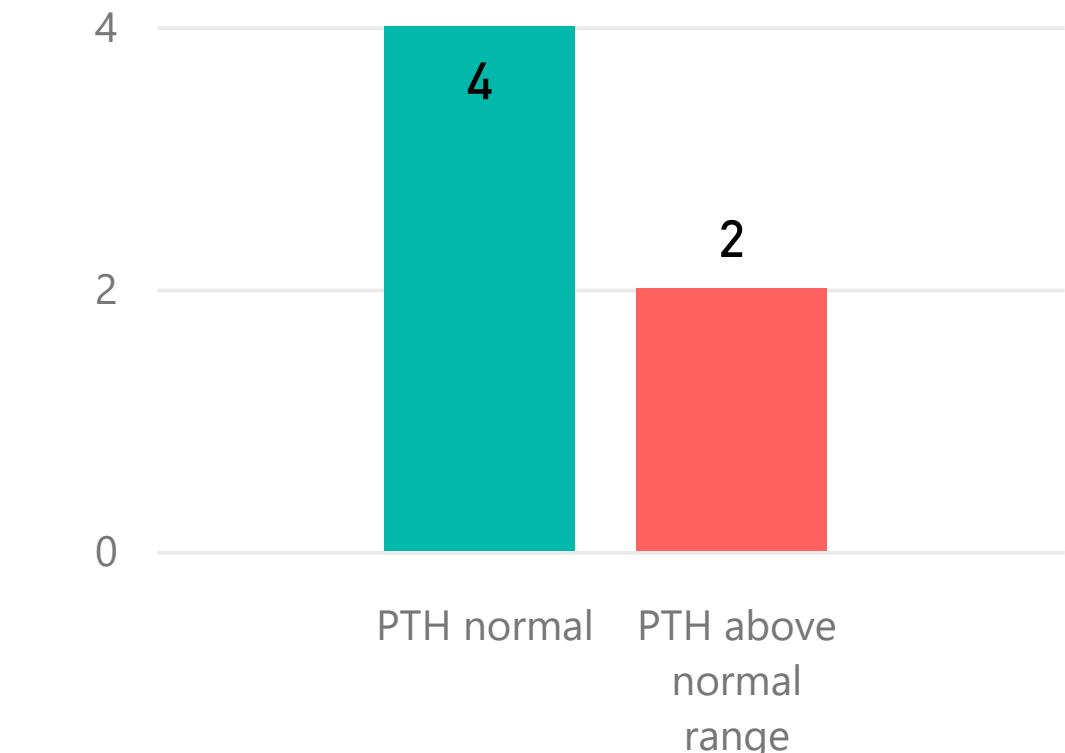
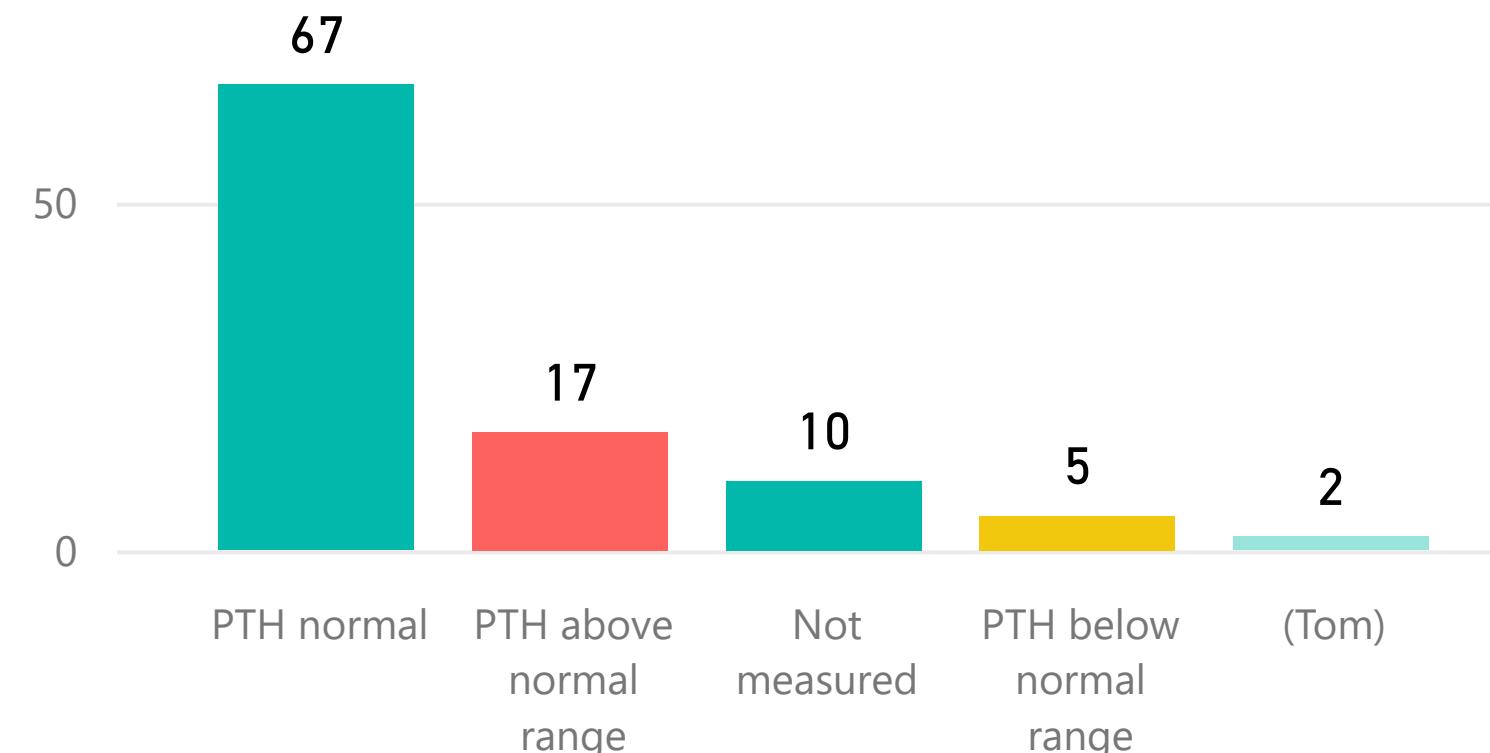
PTH Status of Hypercalcemic Patients

Calcium Status



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

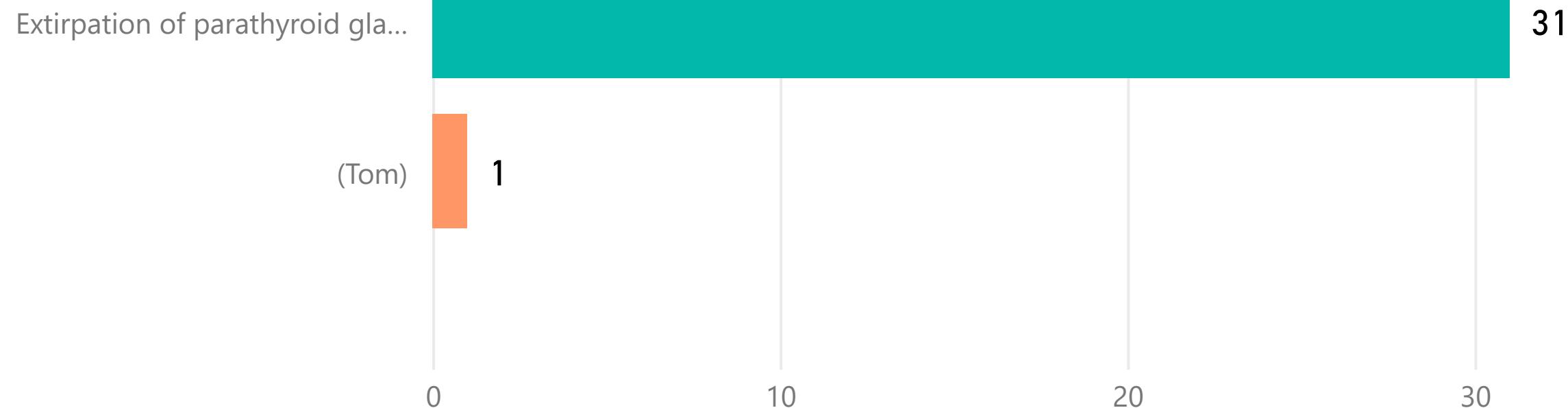
PTH Status of Hypercalcemic Patients



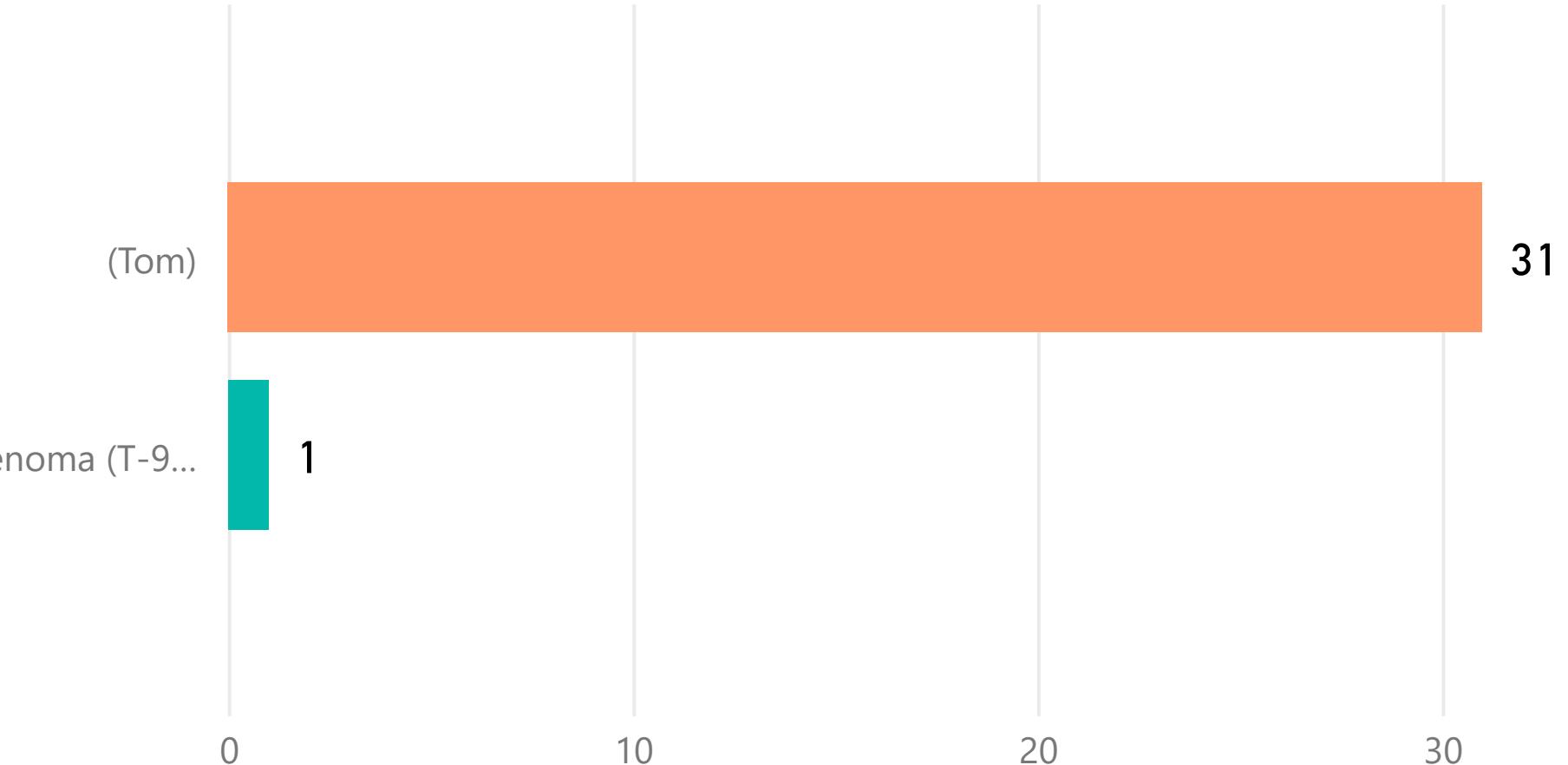
# Parathyroids

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

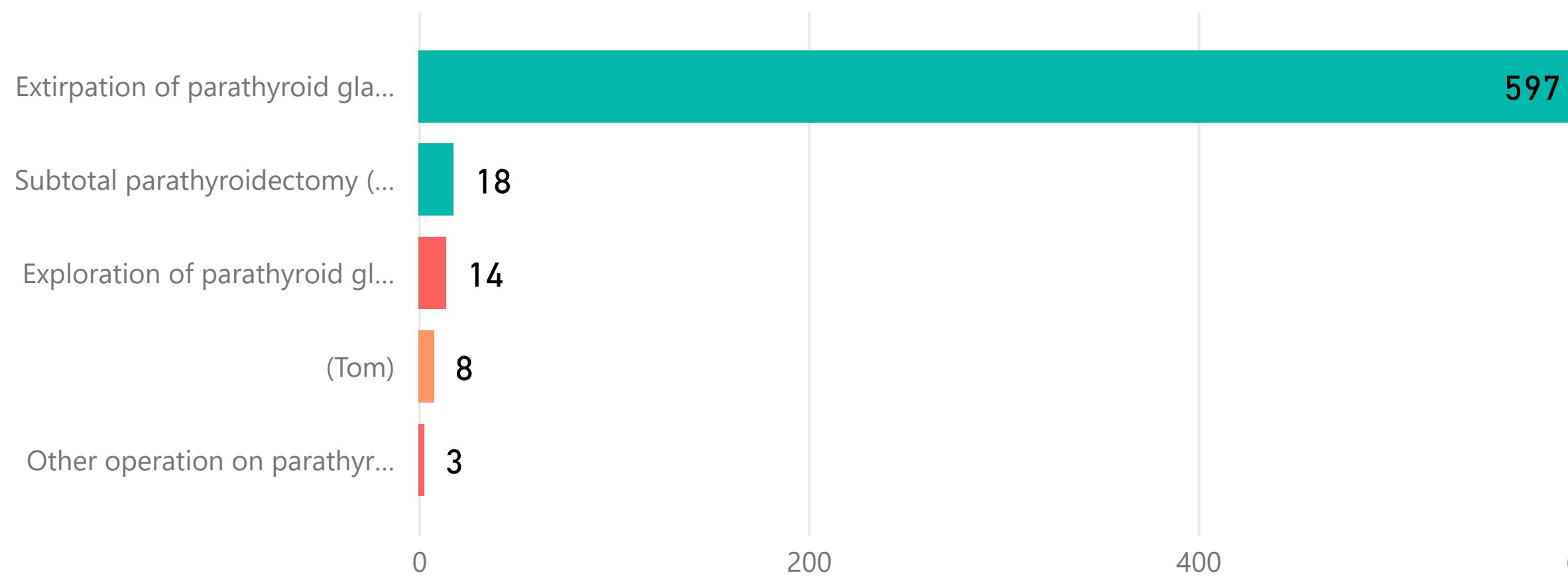
based on Selected Type of Operation



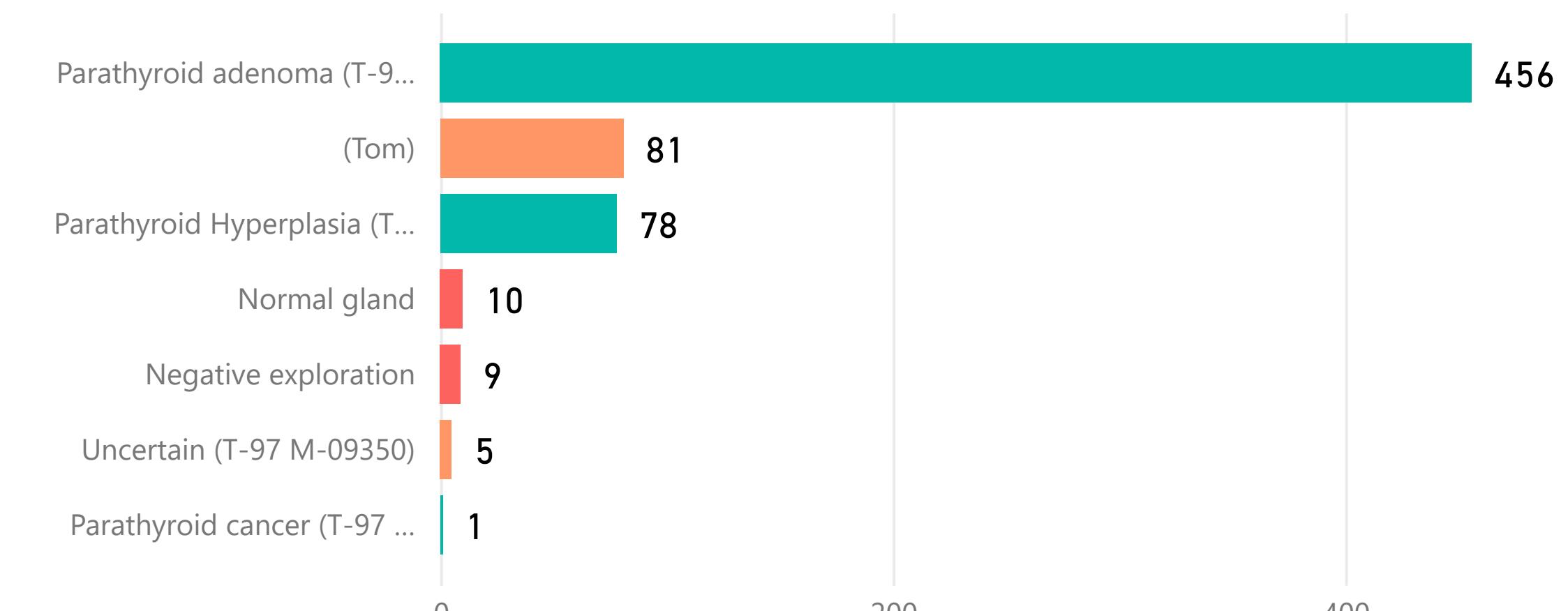
based on Selected Histological Main Diagnosis



based on Selected Type of Operation



based on Selected Histological Main Diagnosis



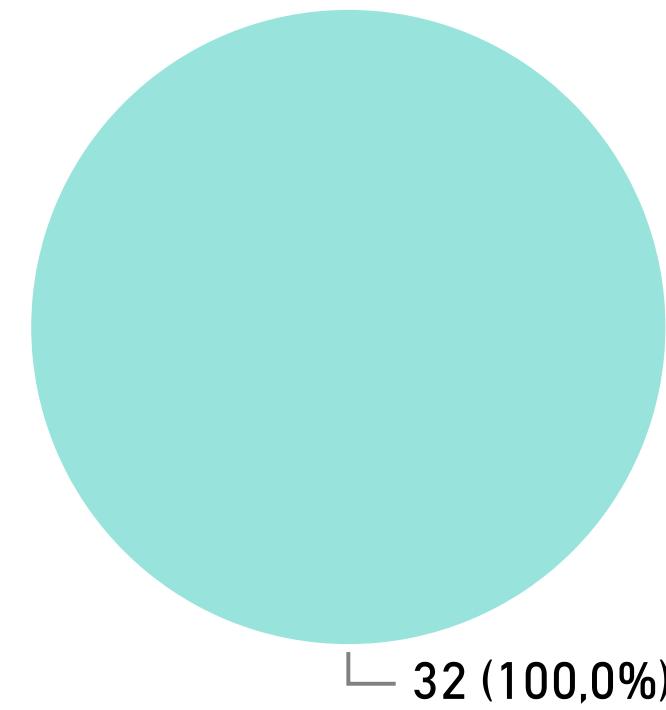
# Parathyroids

## Persistences and Re-Operations

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

Patients Reoperated for Persistence at Follow-up

(Tom)



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

Patients Reoperated for Persistence at Follow-up

