

# EUROCRINE Benchmark Report on Operations for Primary Hyperparathyroidism



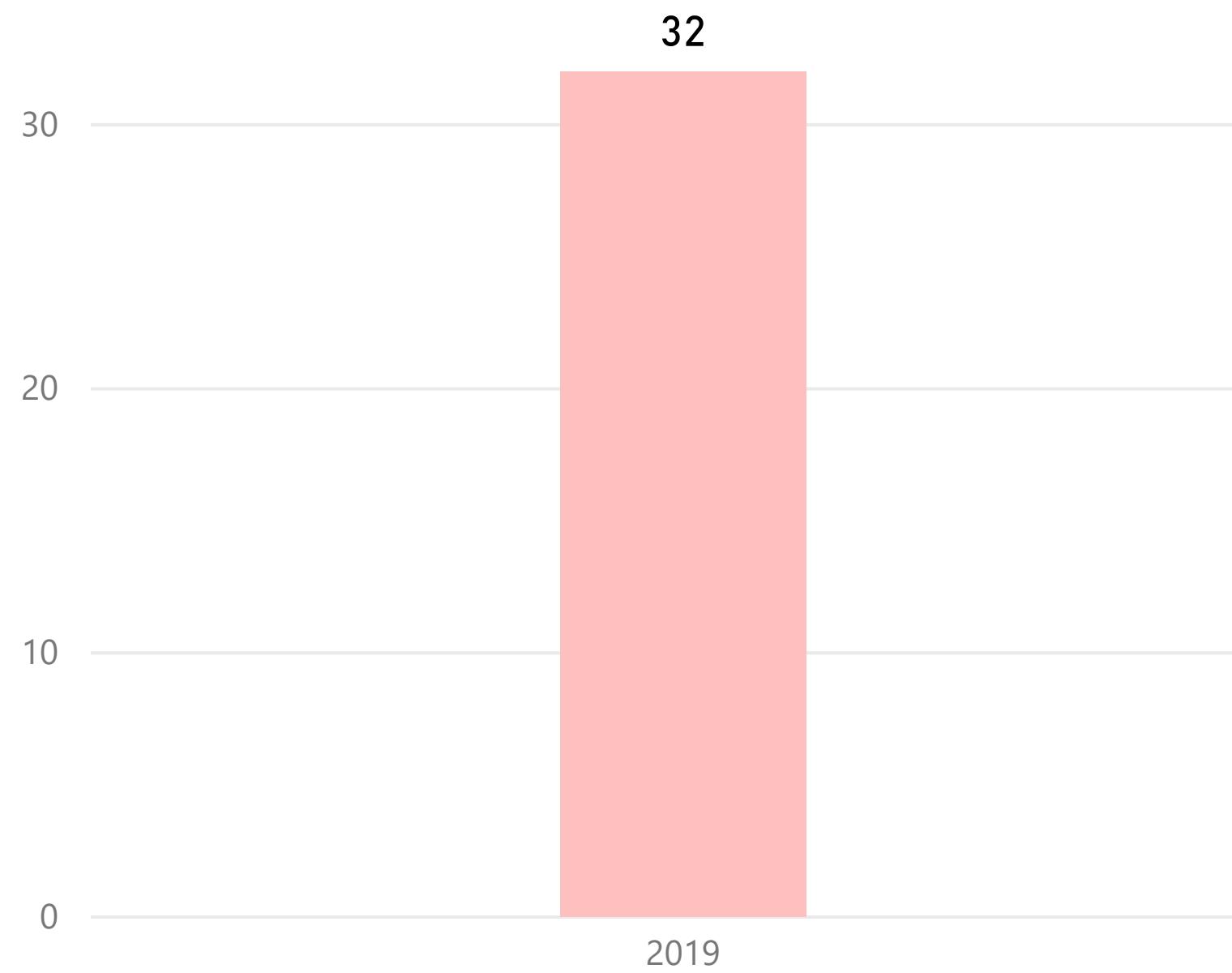
Investigated Clinic	Benchmark Clinics	Investigated Year
<ul style="list-style-type: none"><li><input type="checkbox"/> Bröst och Endokrinkirurgiska kliniken, KS H...</li><li><input type="checkbox"/> Carlanderska Endokrinkirurgi</li><li><input type="checkbox"/> Gastro Center Skåne</li><li><input type="checkbox"/> Kirurgiska kliniken, Aabenraa</li><li><input type="checkbox"/> Kirurgiska kliniken, Århus</li><li><input type="checkbox"/> Kirurgiska kliniken, Borås</li><li><input type="checkbox"/> Kirurgiska kliniken, Danderyd</li><li><input type="checkbox"/> Kirurgiska kliniken, Eksjö</li><li><input type="checkbox"/> Kirurgiska kliniken, Falun</li><li><input type="checkbox"/> Kirurgiska kliniken, Gävle</li><li><input type="checkbox"/> Kirurgiska kliniken, Göteborg</li><li><input type="checkbox"/> Kirurgiska kliniken, Halmstad</li><li><input type="checkbox"/> Kirurgiska kliniken, Haukeland</li><li><input type="checkbox"/> Kirurgiska kliniken, Helsingborg</li><li><input type="checkbox"/> Kirurgiska kliniken, Herning</li><li><input type="checkbox"/> Kirurgiska kliniken, Horsens</li><li><input type="checkbox"/> Kirurgiska kliniken, Jönköping</li><li><input type="checkbox"/> Kirurgiska kliniken, Kalmar</li><li><input type="checkbox"/> Kirurgiska kliniken, Karlskrona</li><li><input type="checkbox"/> Kirurgiska kliniken, Karlstad</li><li><input type="checkbox"/> Kirurgiska kliniken, Kristianstad</li><li><input type="checkbox"/> Kiruraiska kliniken. KS Solna</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Markera alla</li><li><input checked="" type="checkbox"/> Bröst och Endokrinkirurgiska klinike...</li><li><input checked="" type="checkbox"/> Carlanderska Endokrinkirurgi</li><li><input checked="" type="checkbox"/> Gastro Center Skåne</li><li><input type="checkbox"/> Kirurgiska kliniken, Aabenraa</li><li><input type="checkbox"/> Kirurgiska kliniken, Århus</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Borås</li><li><input type="checkbox"/> Kirurgiska kliniken, Danderyd</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Eksjö</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Falun</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Gävle</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Göteborg</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Halmstad</li><li><input type="checkbox"/> Kirurgiska kliniken, Haukeland</li><li><input type="checkbox"/> Kirurgiska kliniken, Helsingborg</li><li><input type="checkbox"/> Kirurgiska kliniken, Herning</li><li><input type="checkbox"/> Kirurgiska kliniken, Horsens</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Jönköping</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Kalmar</li><li><input checked="" type="checkbox"/> Kirurgiska kliniken, Karlskrona</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Markera alla</li><li><input type="checkbox"/> 2012</li><li><input type="checkbox"/> 2013</li><li><input type="checkbox"/> 2014</li><li><input type="checkbox"/> 2015</li><li><input type="checkbox"/> 2016</li><li><input type="checkbox"/> 2017</li><li><input type="checkbox"/> 2018</li><li><input checked="" type="checkbox"/> 2019</li><li><input type="checkbox"/> 2020</li></ul>

Report compiled by Anders Bergenfelz, Thomas Clerici and Thomas Musholt

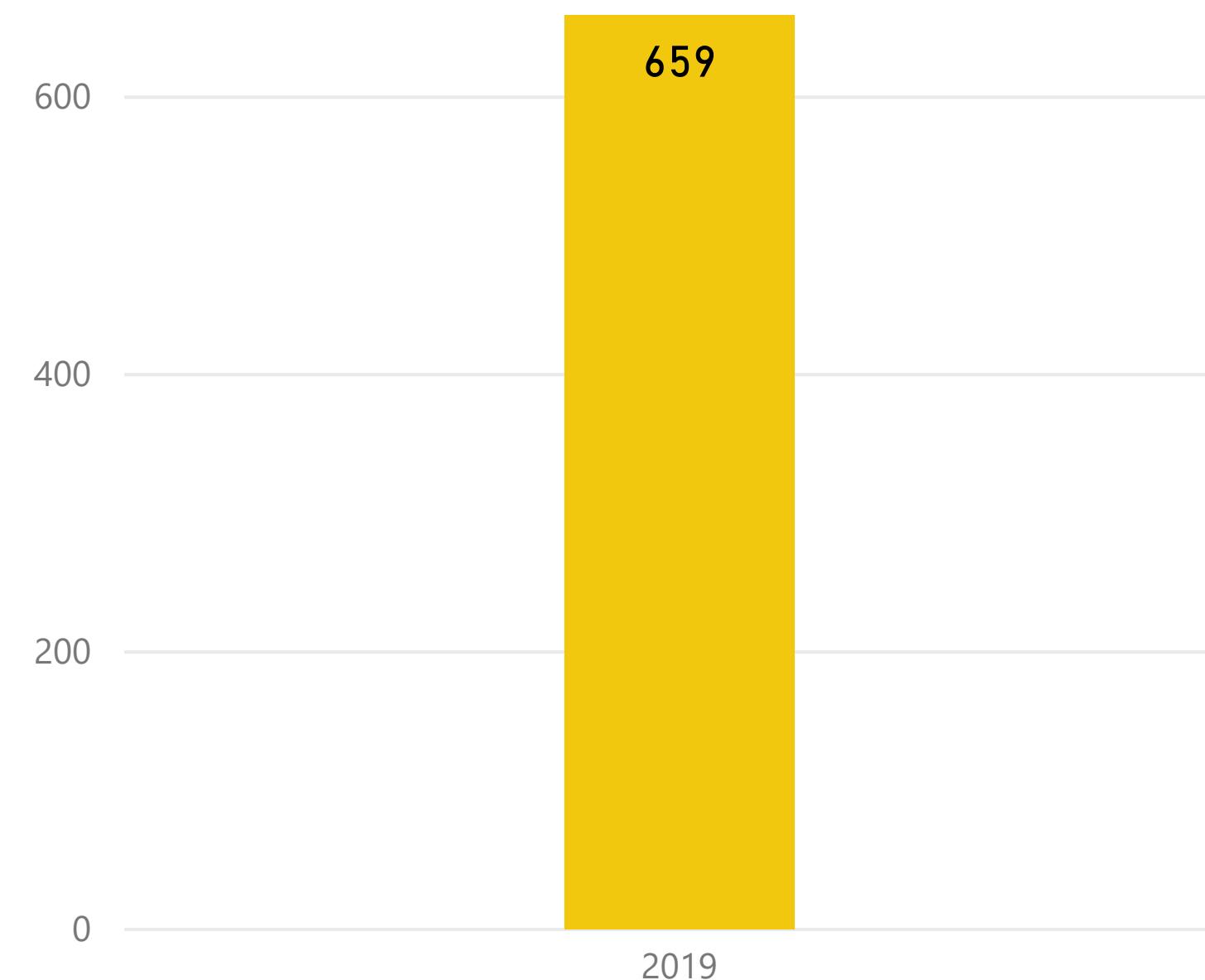
# EUROCRINE Benchmark Report on Operations for Primary Hyperparathyroidism



Registered Parathyroid Operations  
in Your Clinic



Registered Parathyroid Operations in  
Other EUROCRIINE Clinics of Your Country



Investigated Year

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

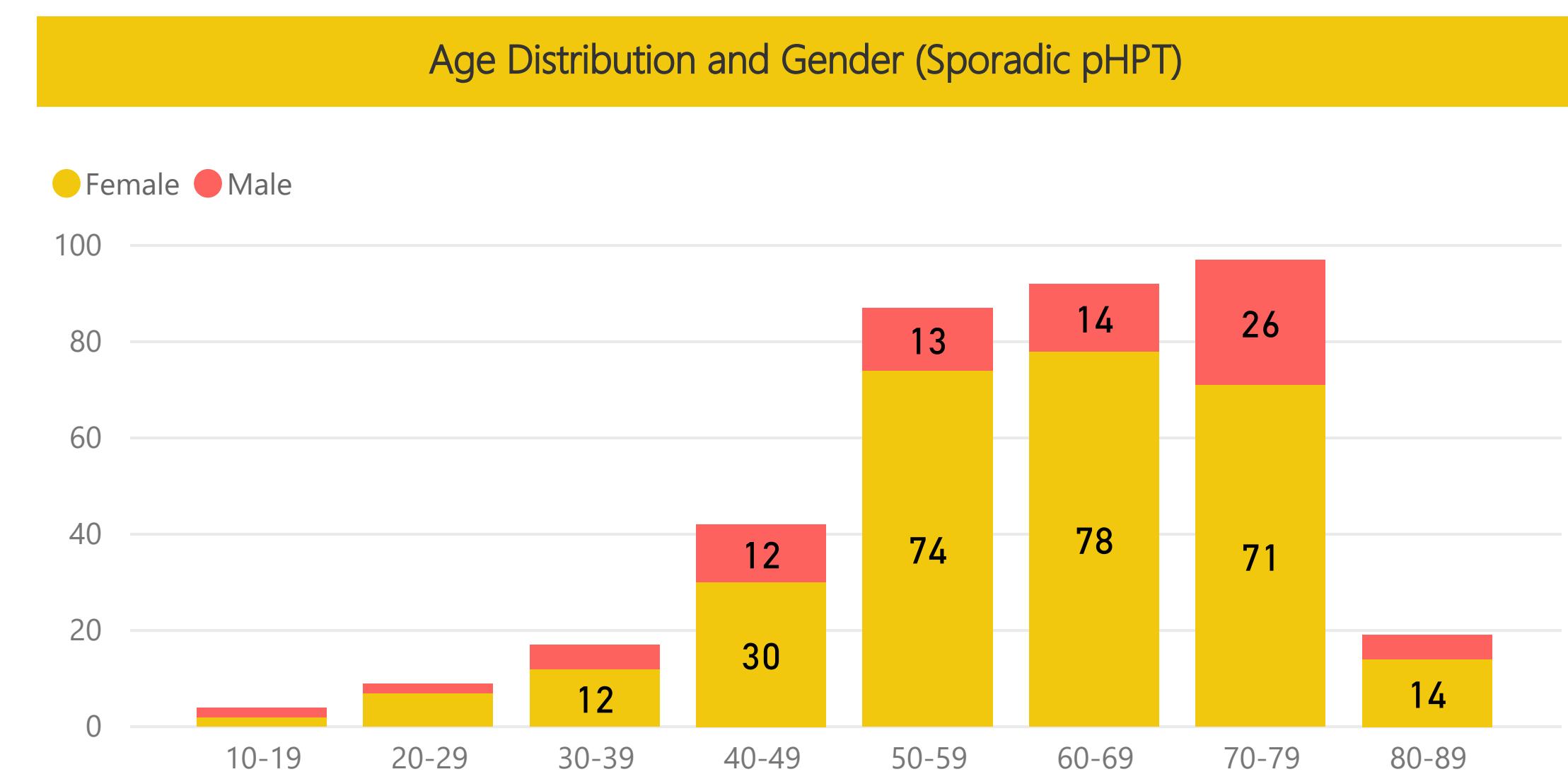
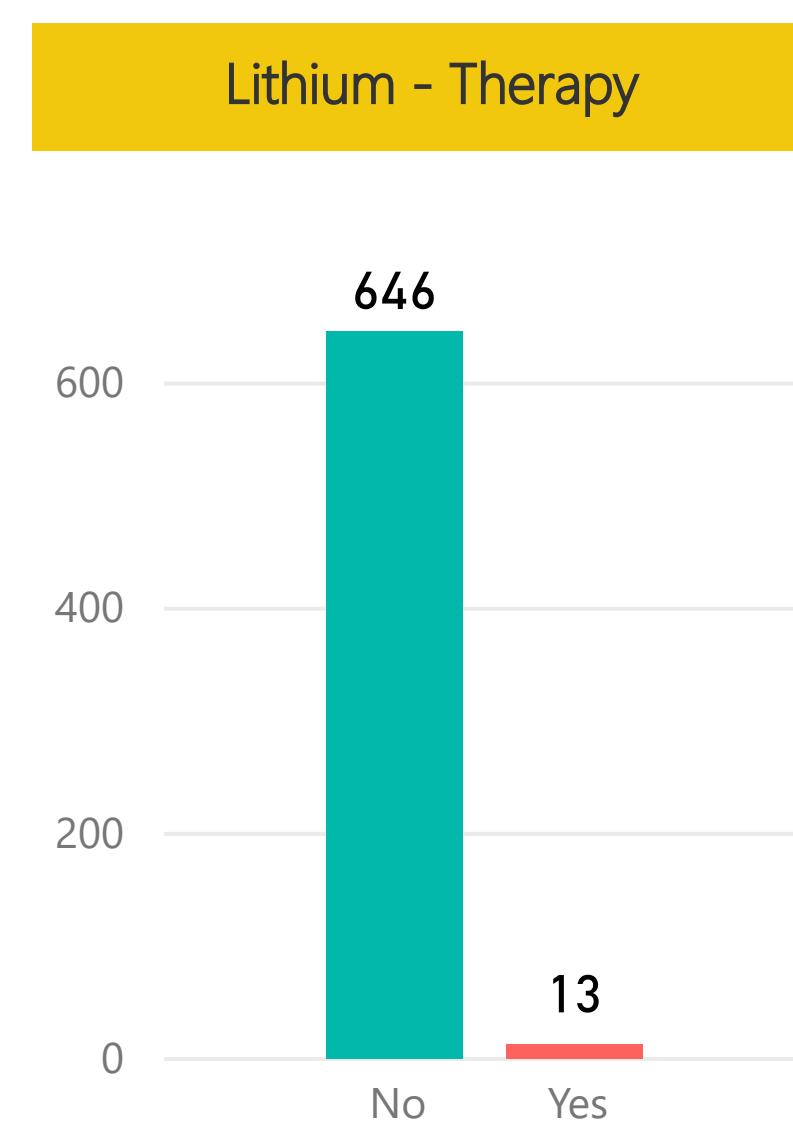
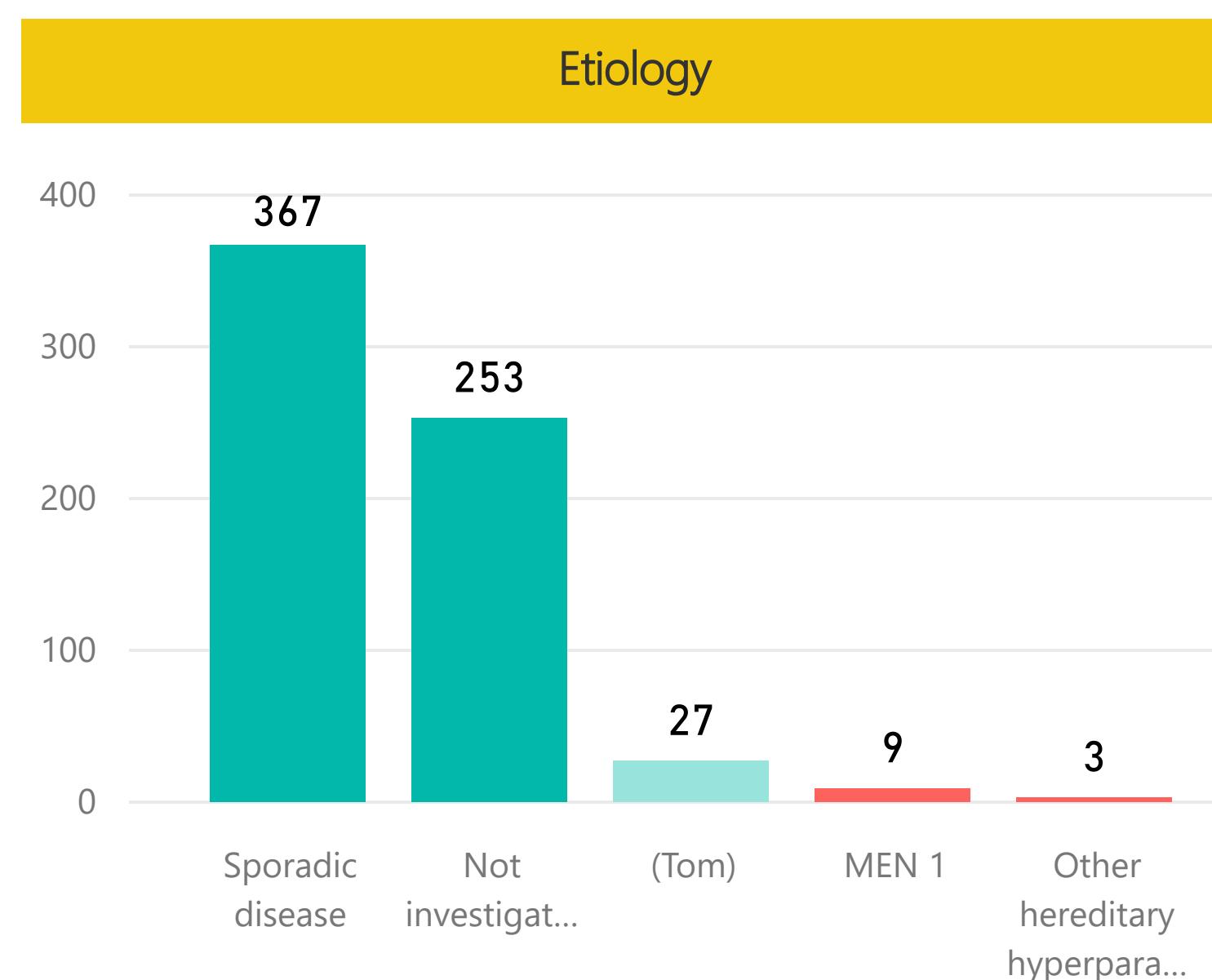
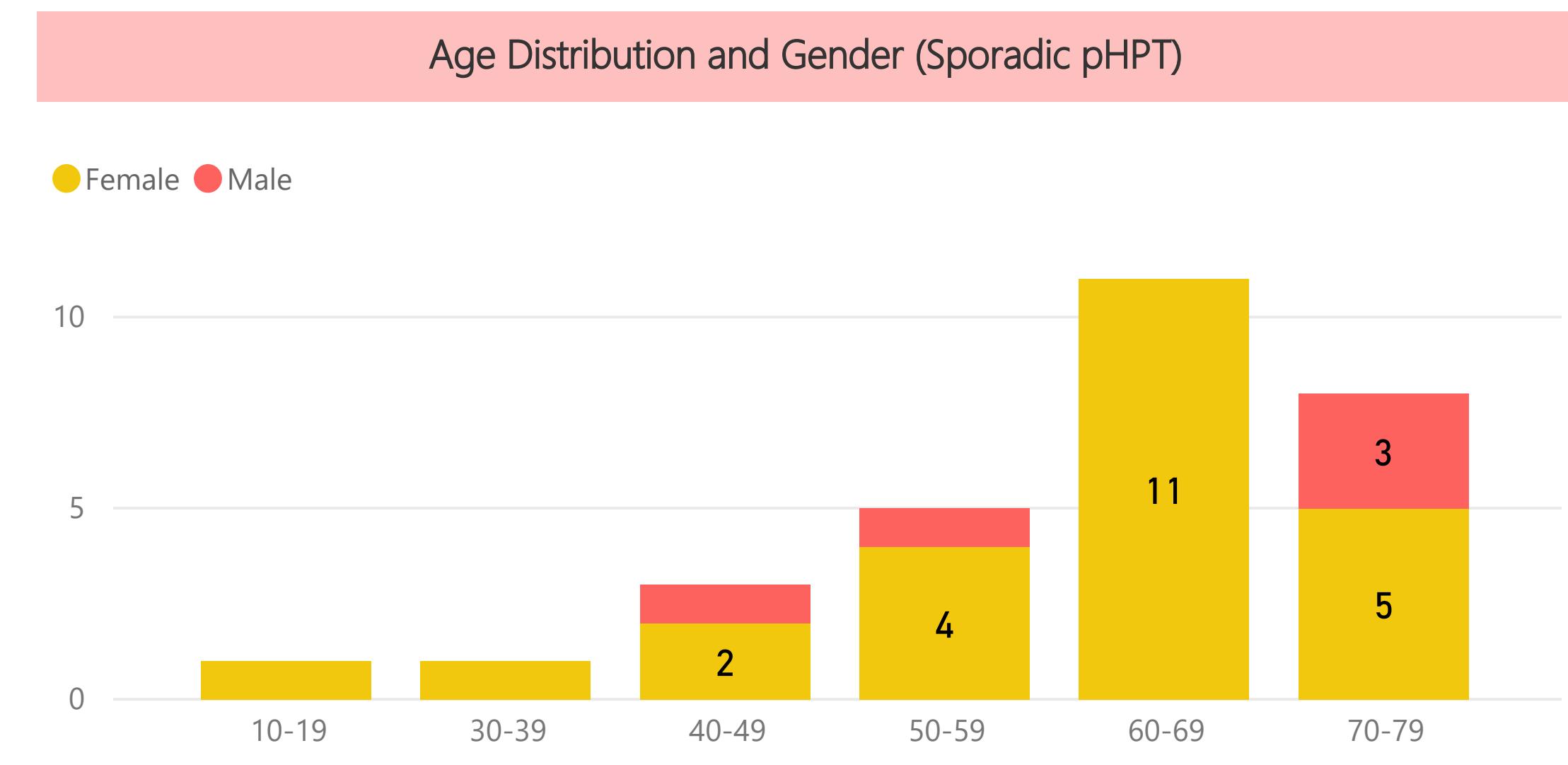
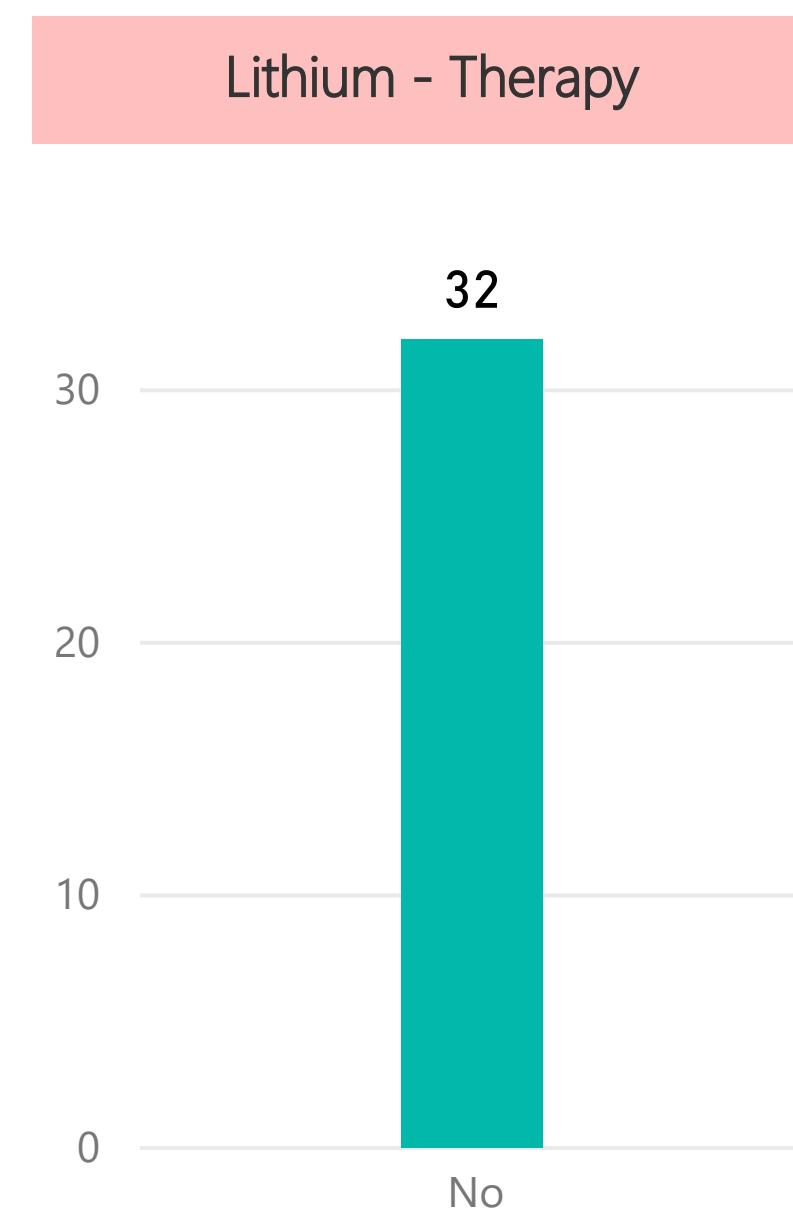
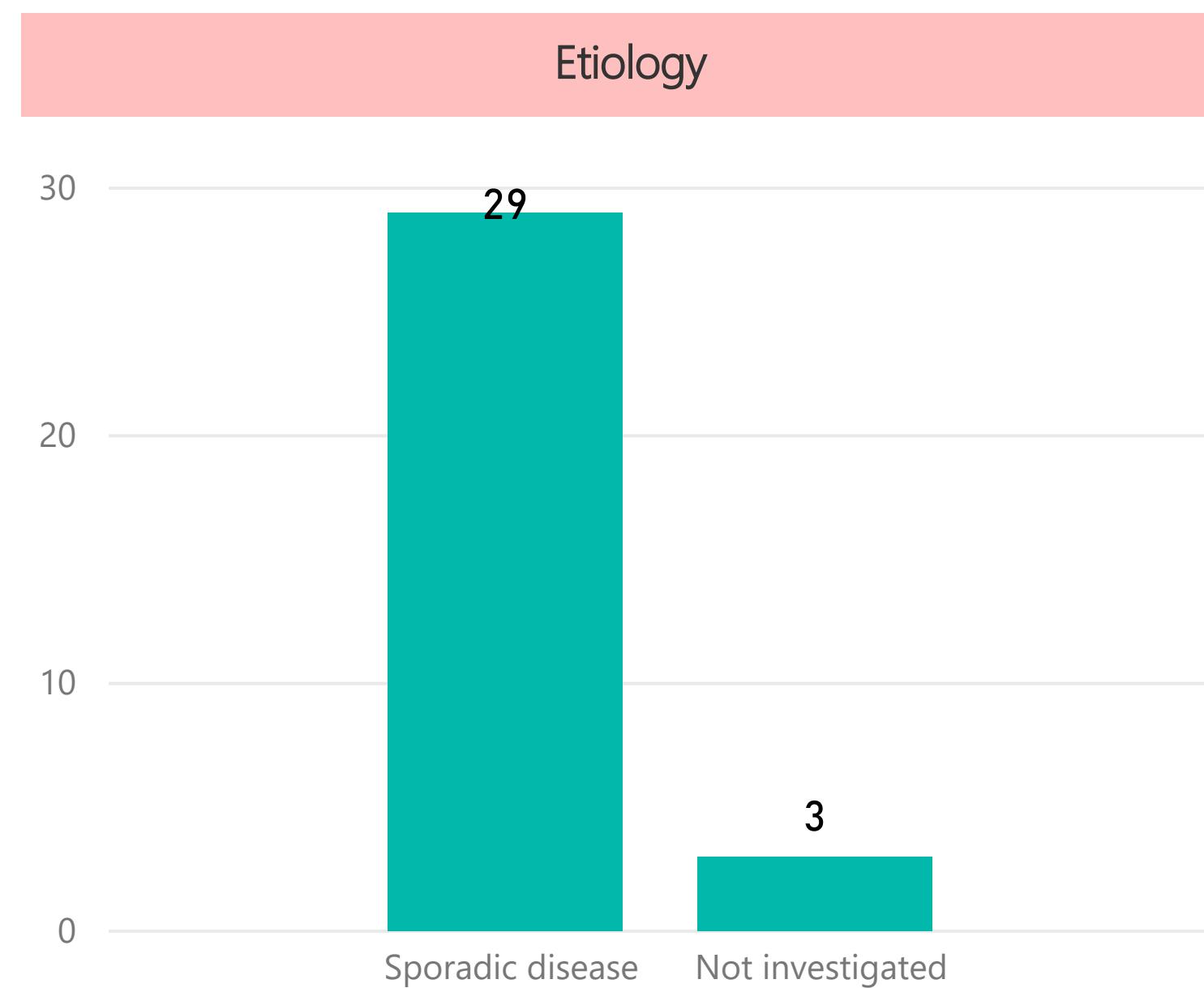
Color Coding in this Report:

Your Clinic

Other EUROCRIINE Clinics in Your Country

# Parathyroids

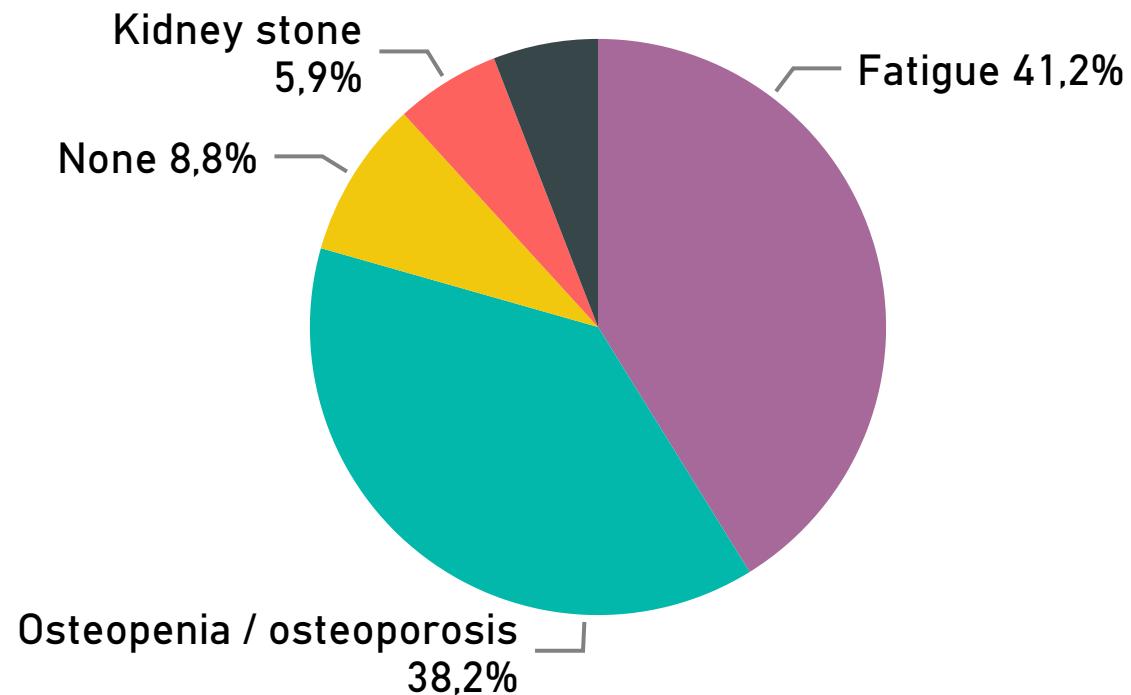
## Etiology, Age Distribution



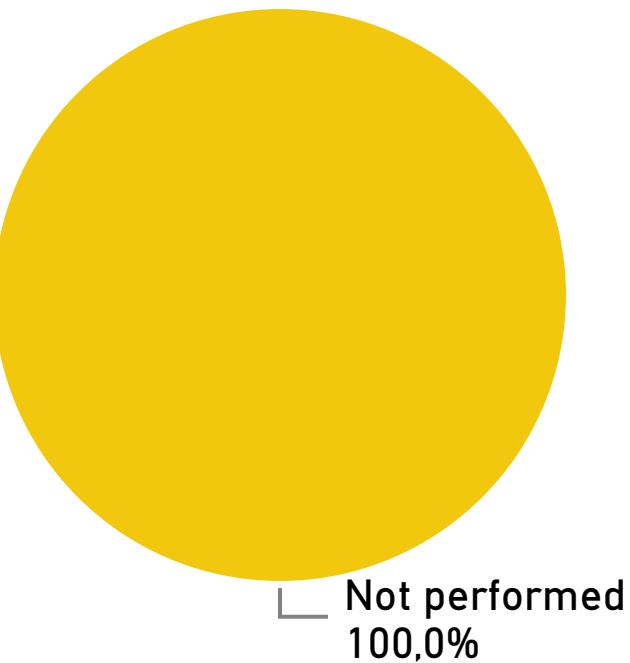
# Parathyroids

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

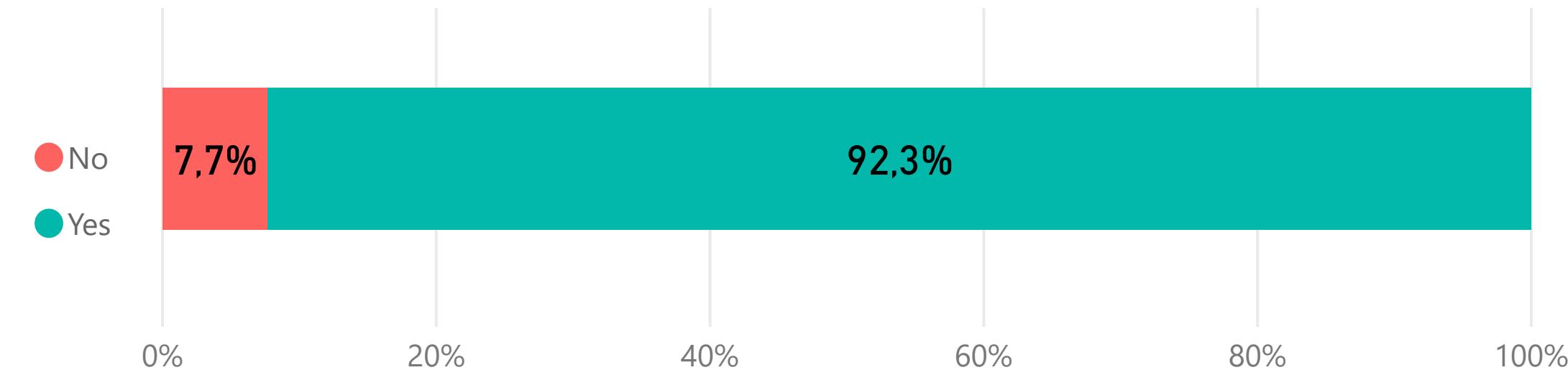
Preoperative Symptomatology



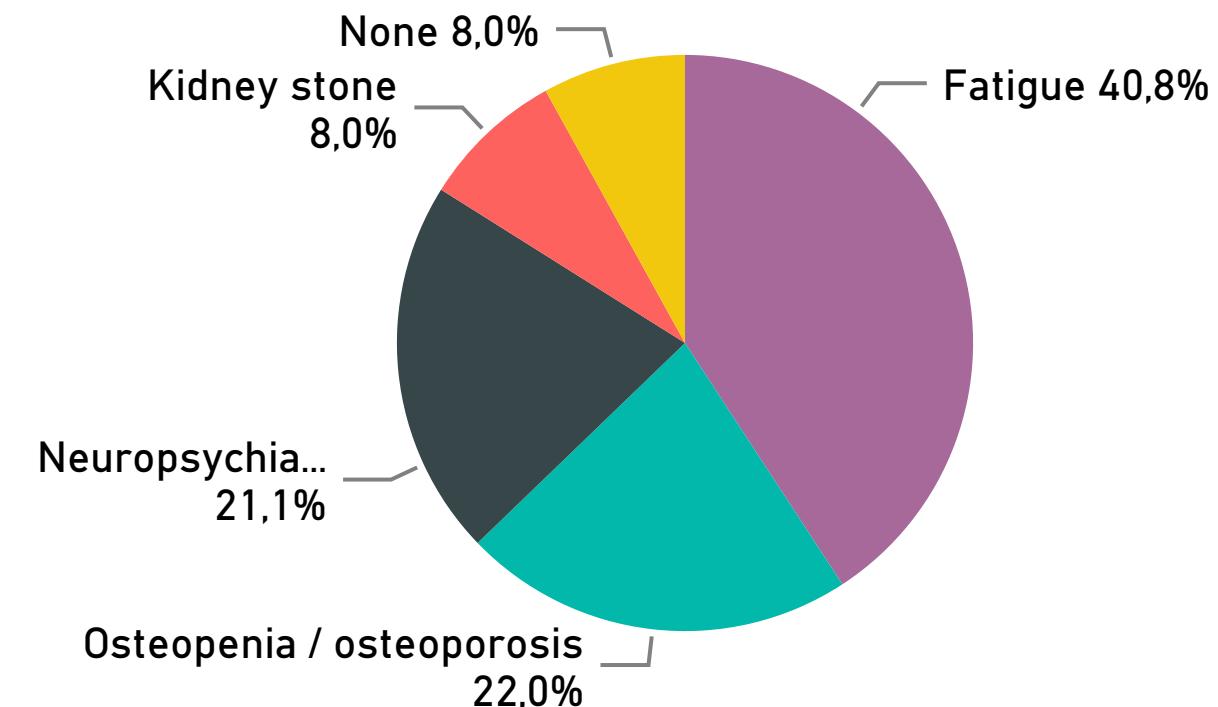
Preoperative Laryngoscopy



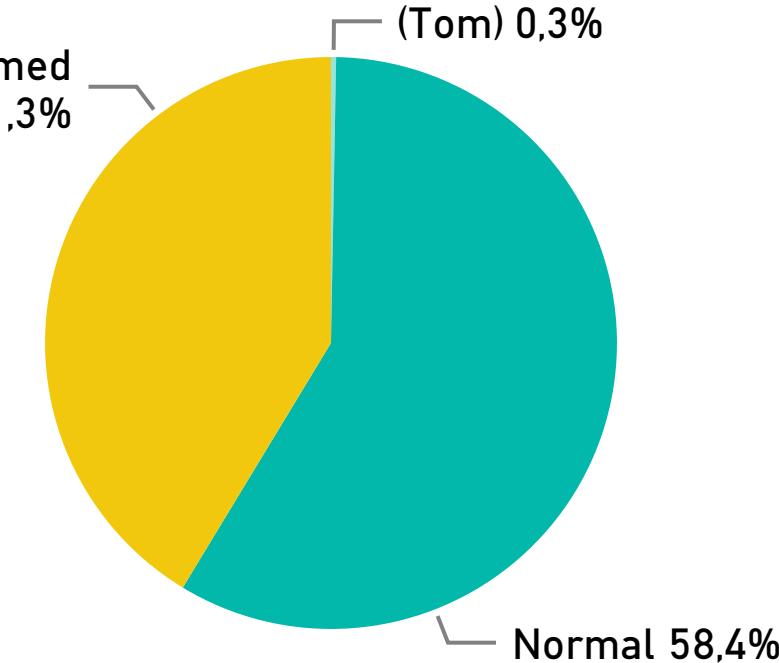
Localisation Examinations Performed



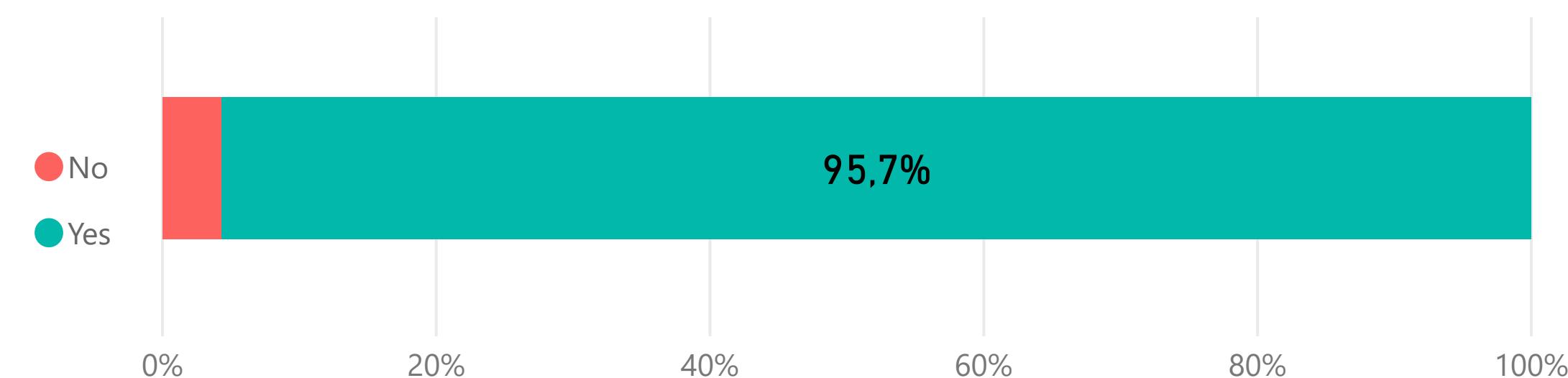
Preoperative Symptomatology



Preoperative Laryngoscopy



Localisation Examinations Performed



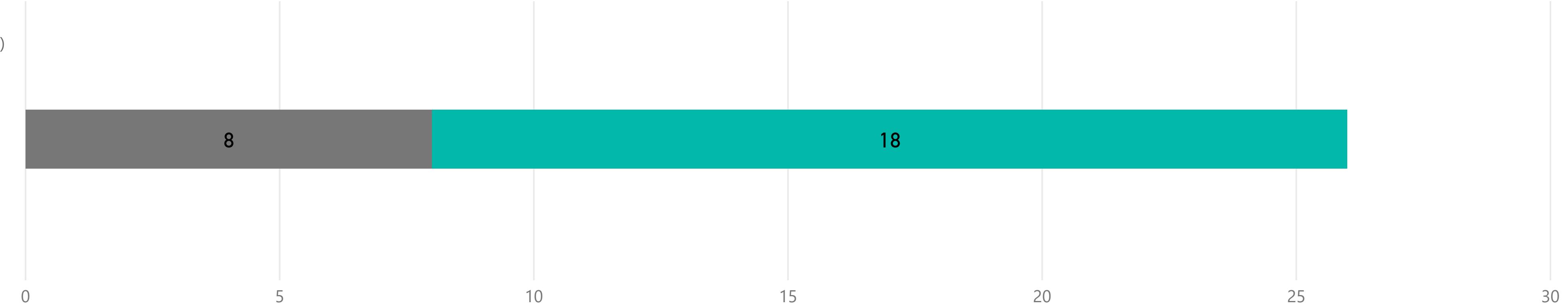
# Parathyroids

## 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)

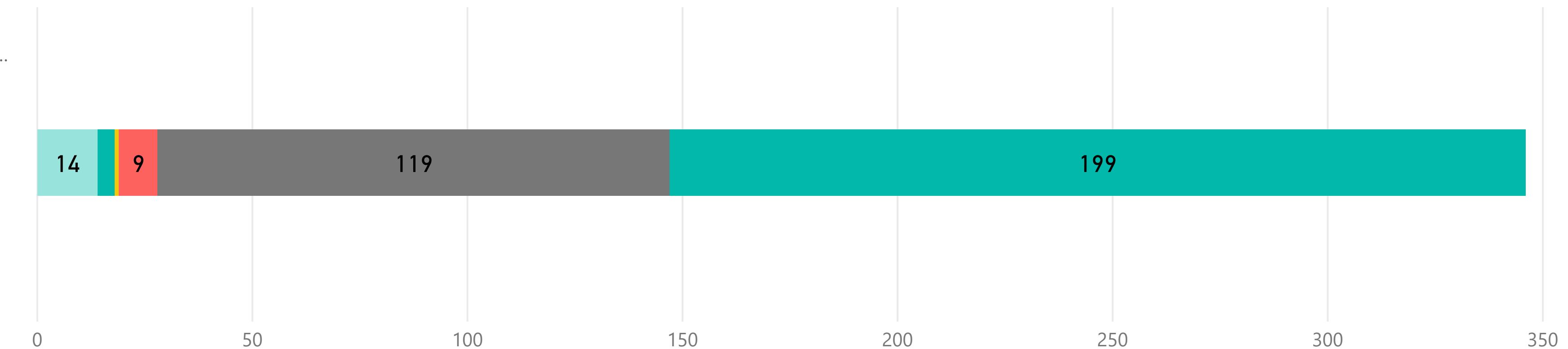
● Correct position of one pathological gland, but multiglandular disease ...

● 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)



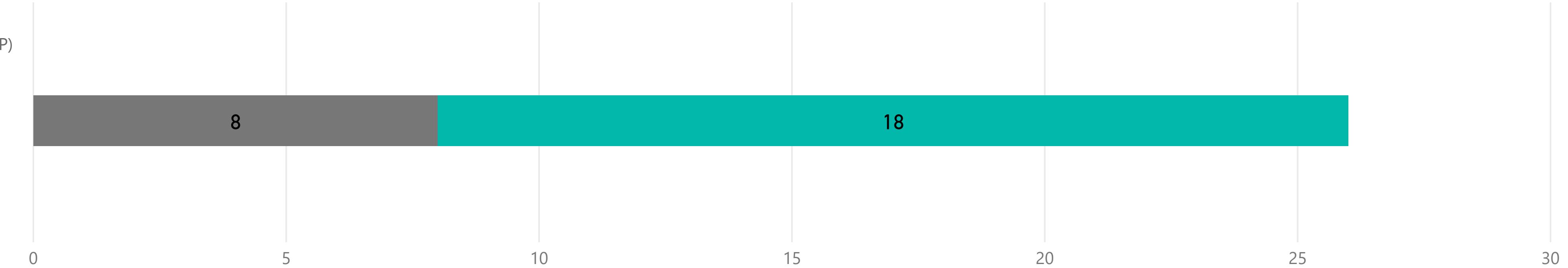
# Parathyroids

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

## Preoperative Mibi-Scintigraphy in Relation to Intraoperative Finding

● Negative / inconclusive pre-op examination

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



## Preoperative Mibi-Scintigraphy in Relation to Intraoperative Finding

● (Tom)

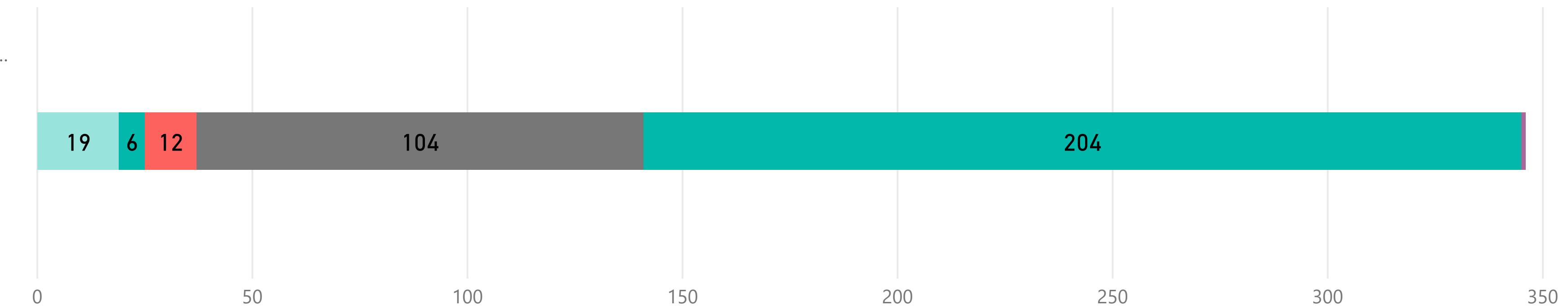
● Correct position of one pathological gland, but multiglandular disease ...

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

● Negative / inconclusive pre-op examination

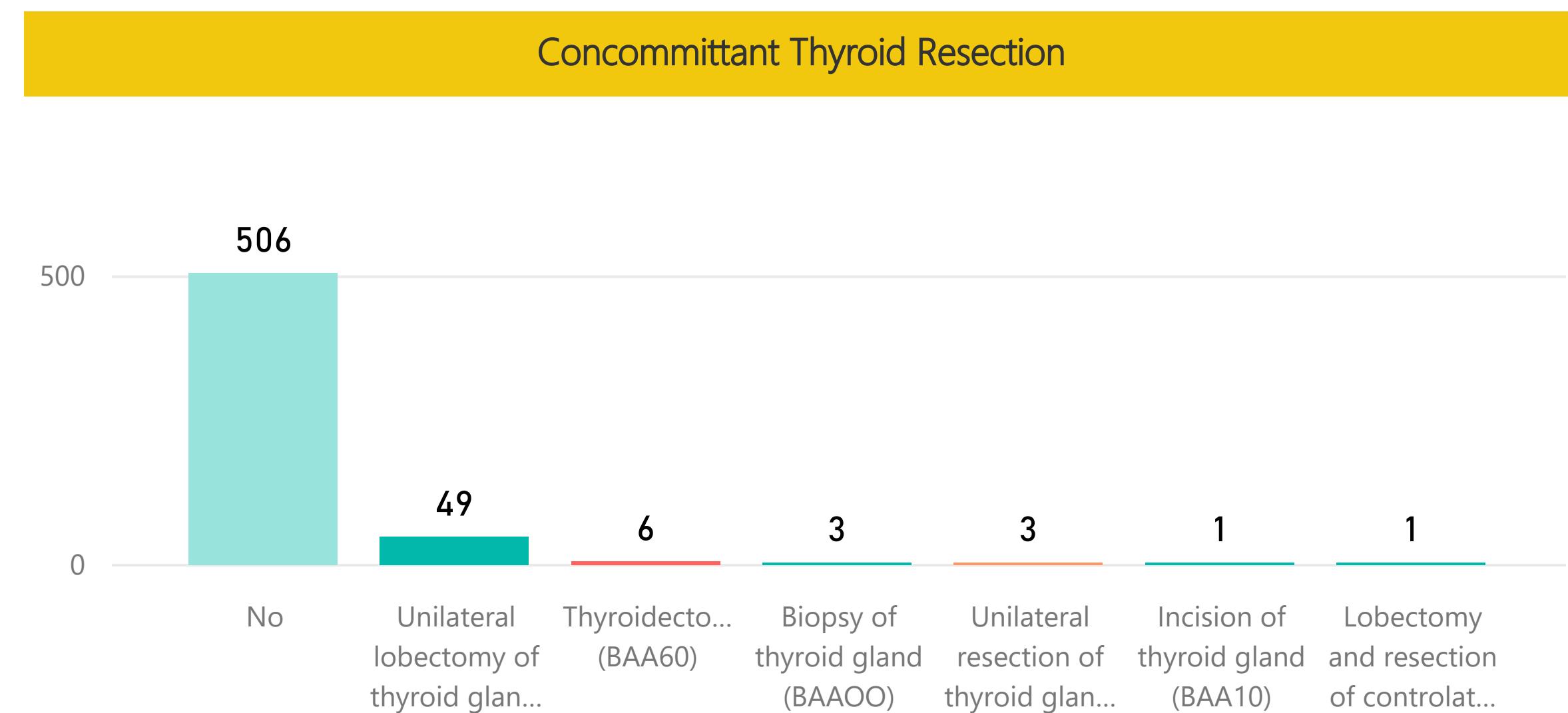
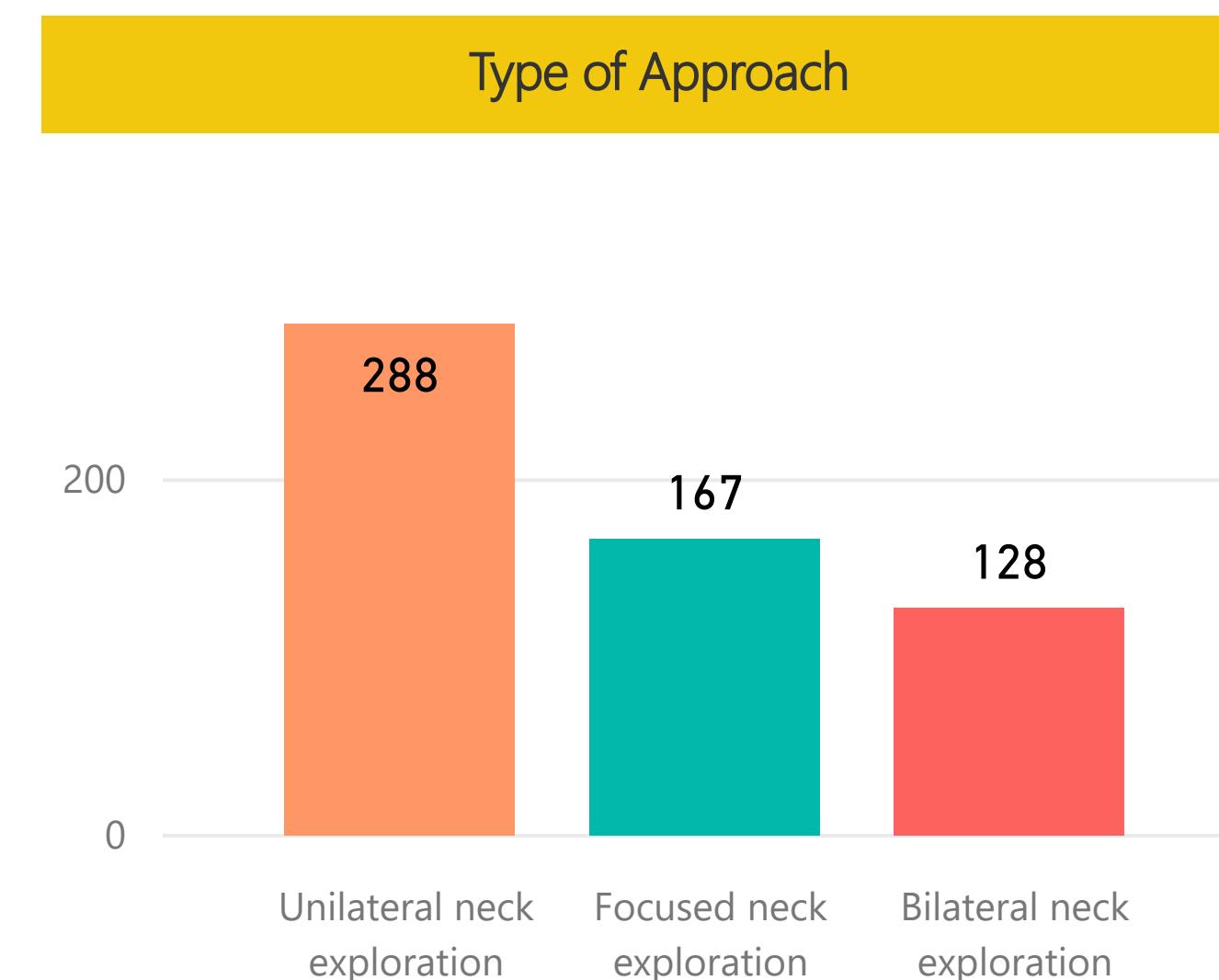
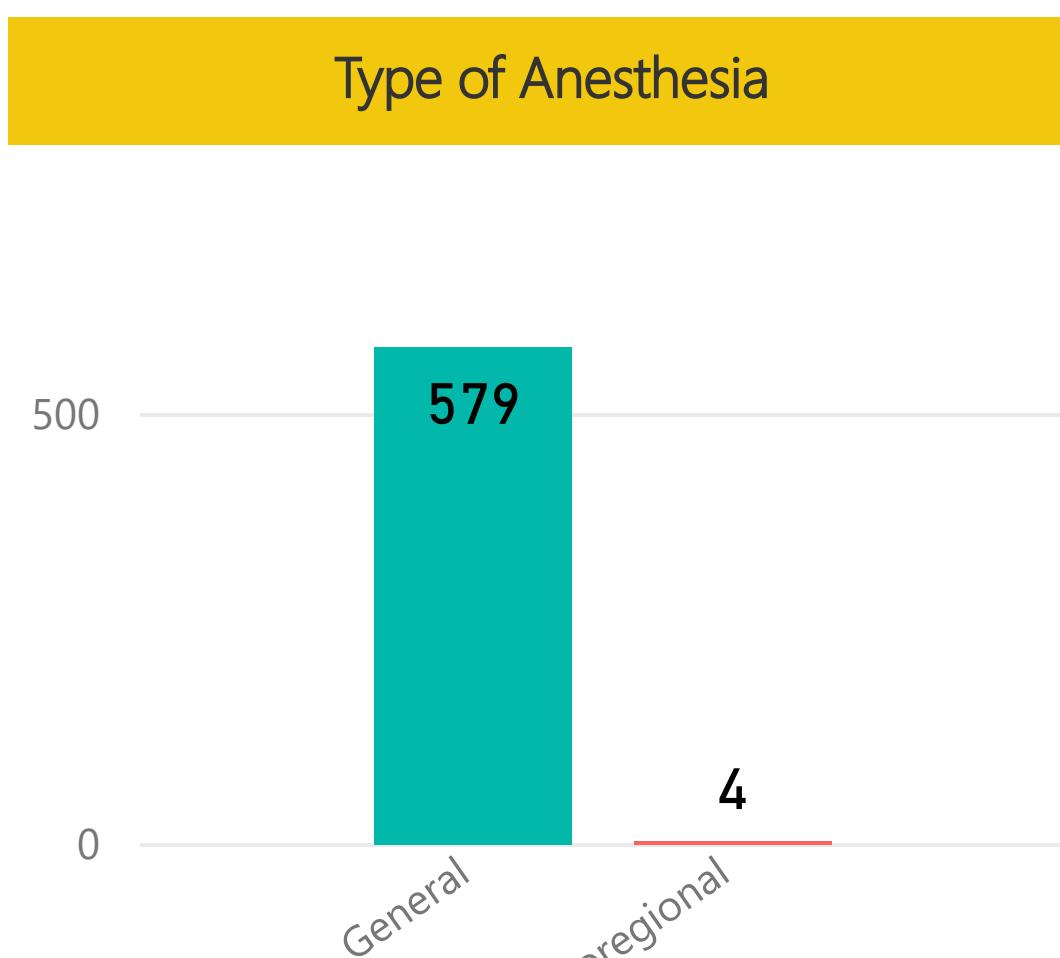
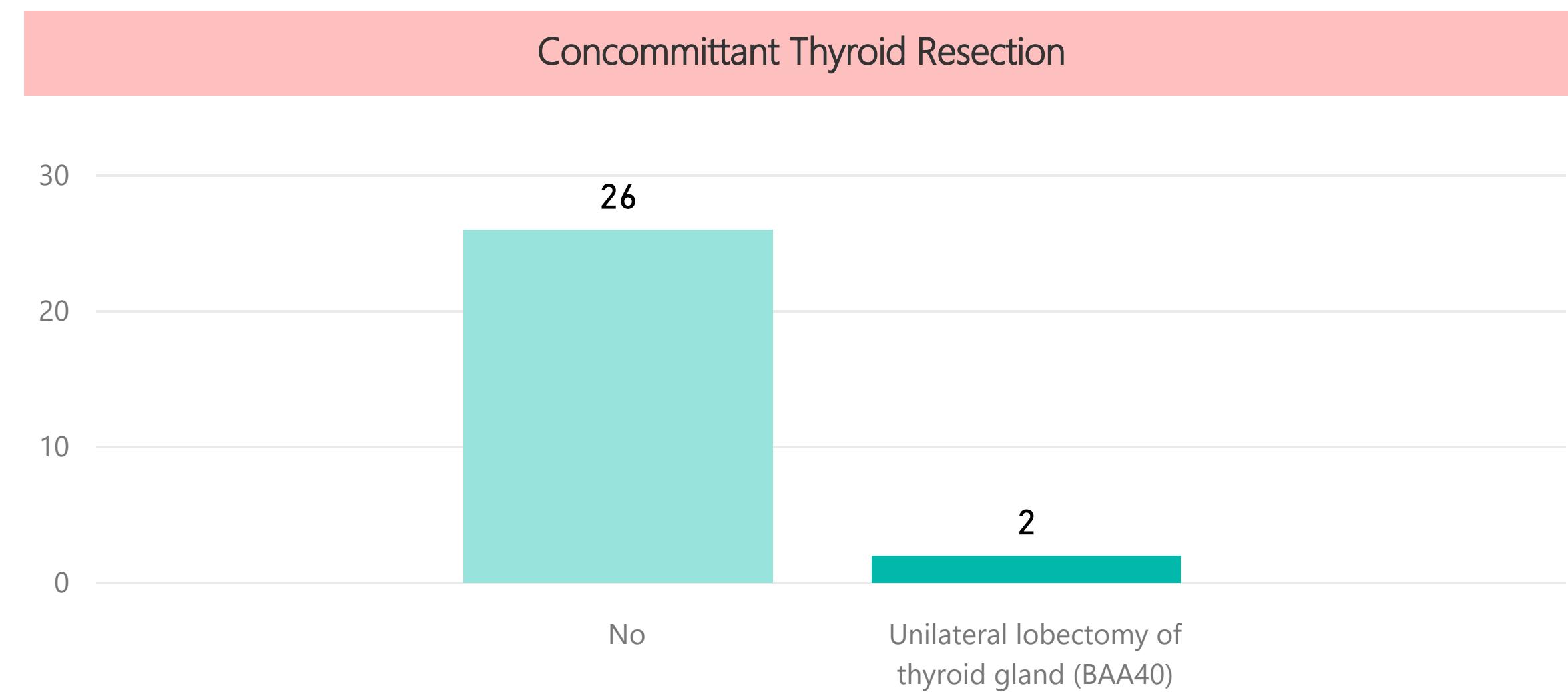
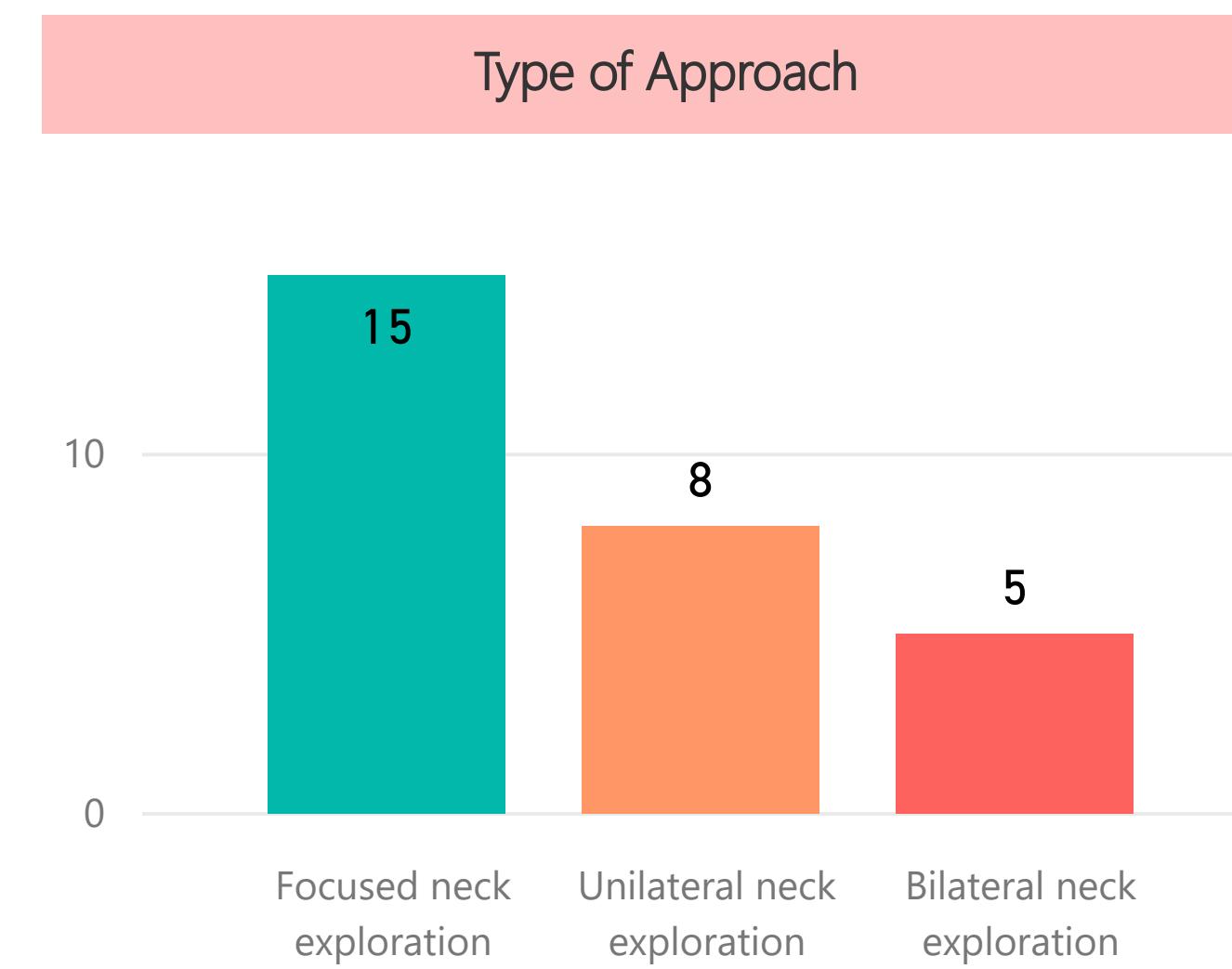
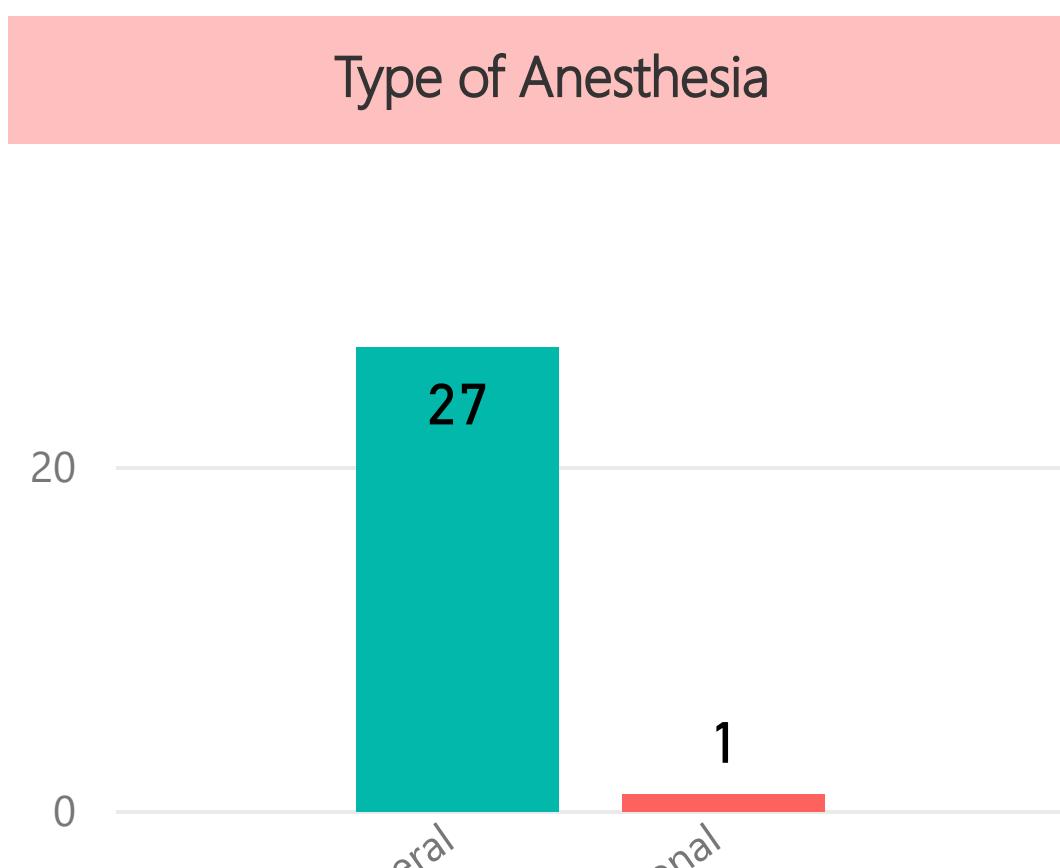
● True pre-op localisation of solitary adenoma (TP)

● True pre-op prediction of multiglandular disease



# Parathyroids

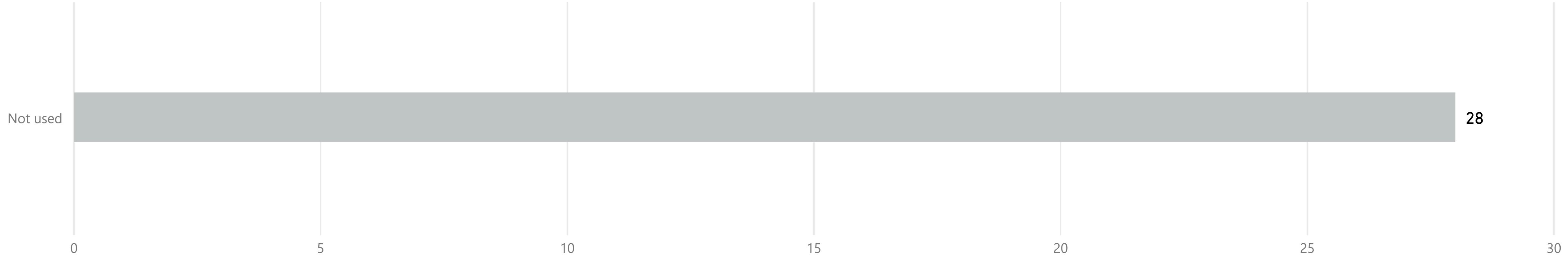
## Characteristics of Primary Operations, Sporadic Disease



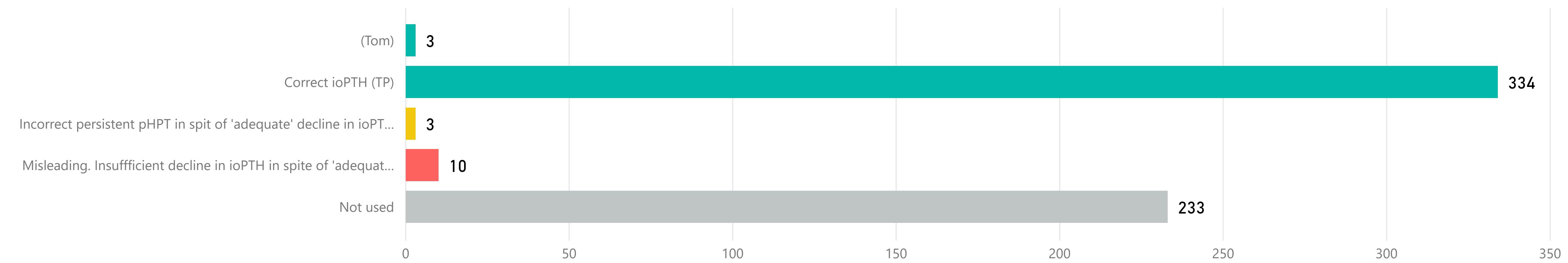
# Parathyroids

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

PTH-Monitoring Results



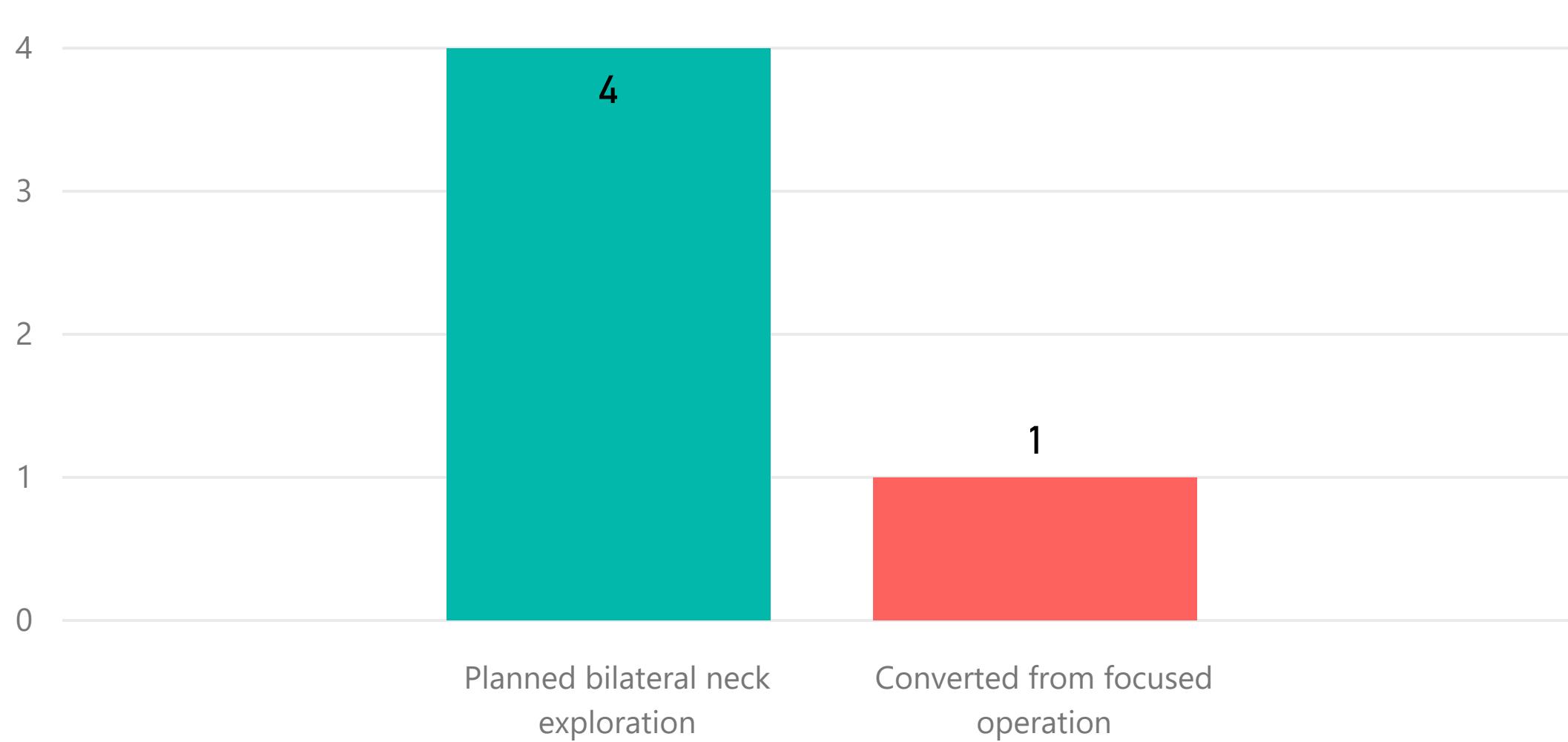
PTH-Monitoring Results



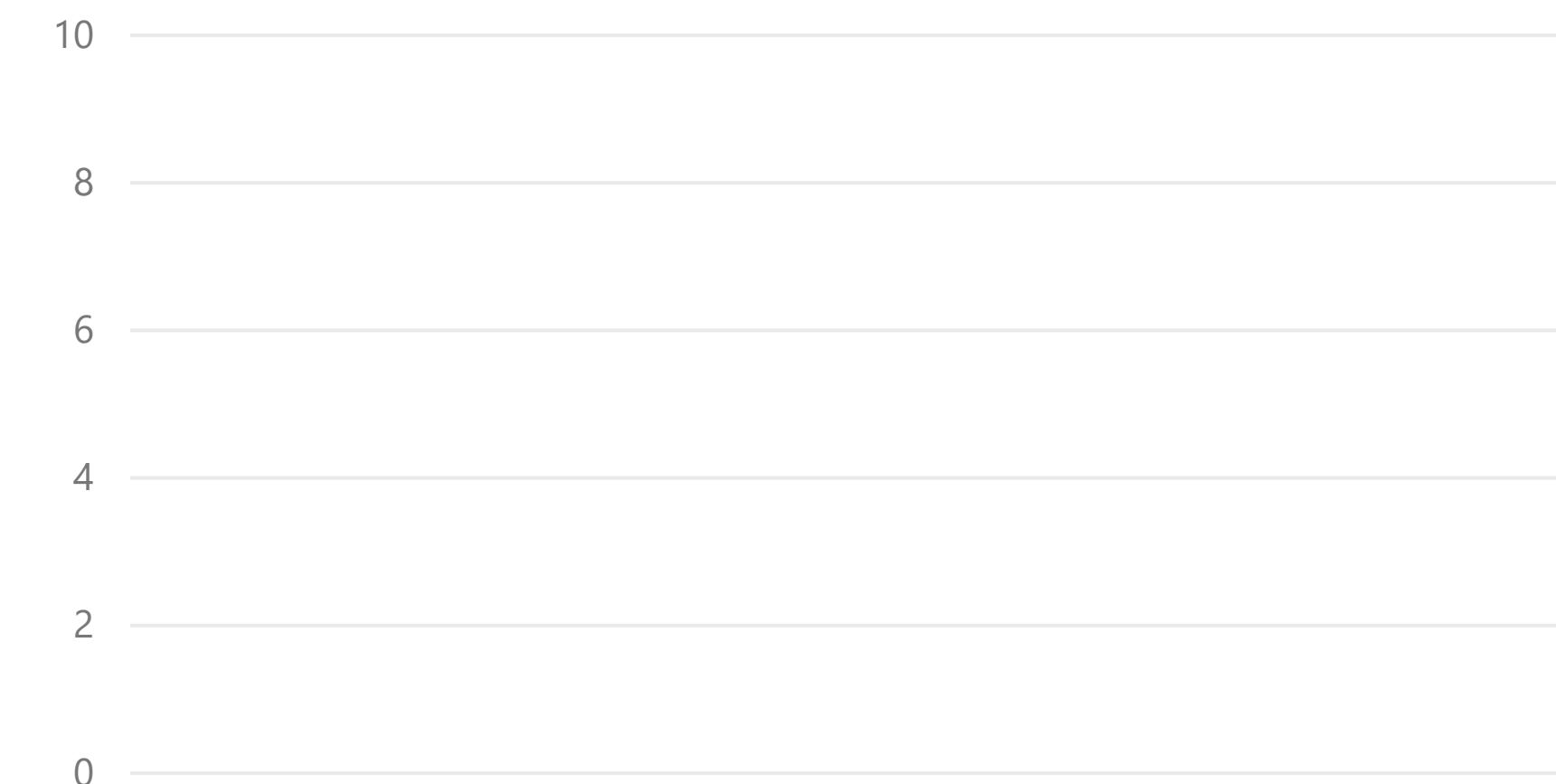
# Parathyroids

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

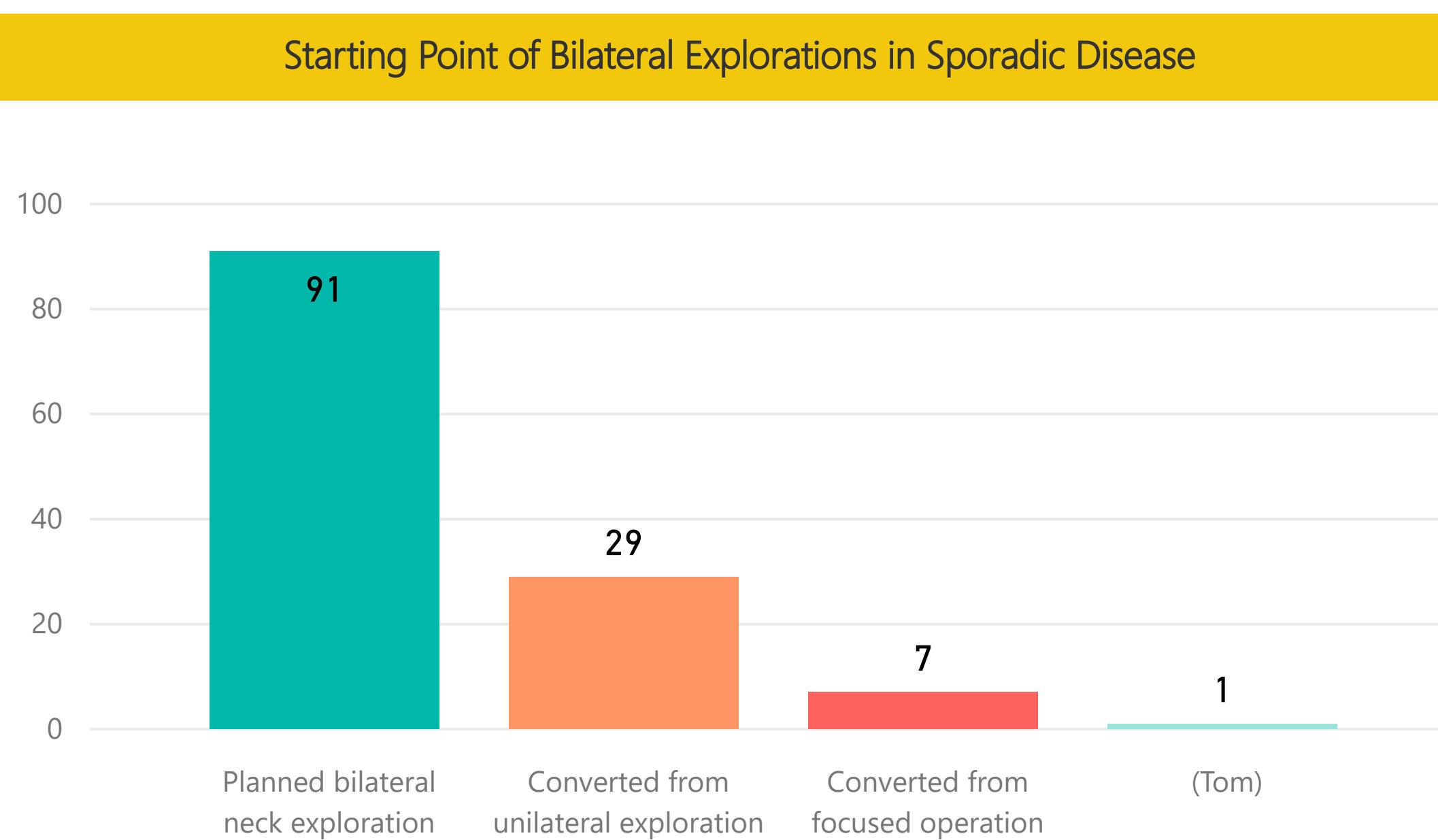
Starting Point of Bilateral Explorations in Sporadic Disease



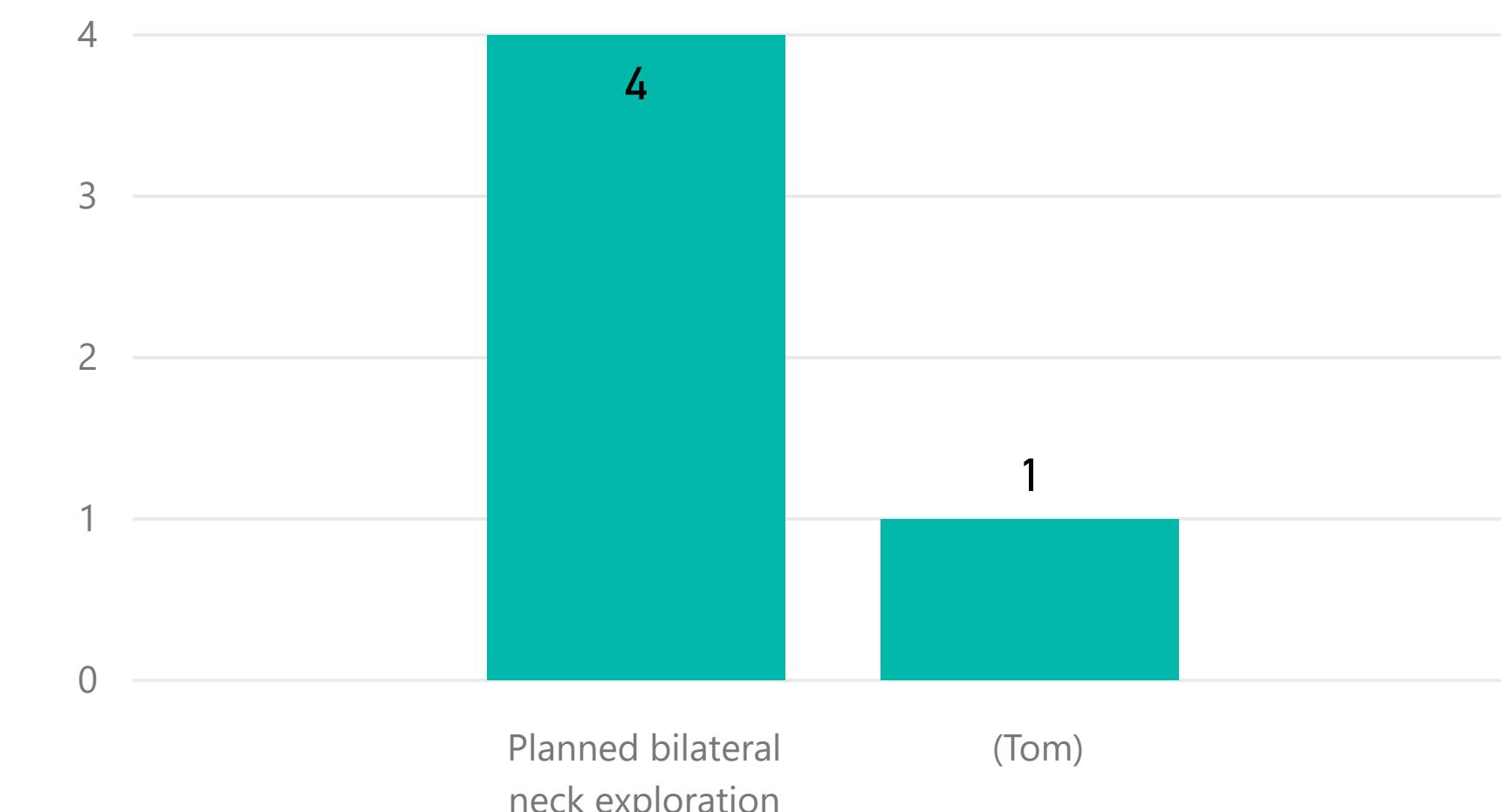
Starting Point of Bilateral Explorations in Hereditary Disease



Starting Point of Bilateral Explorations in Sporadic Disease

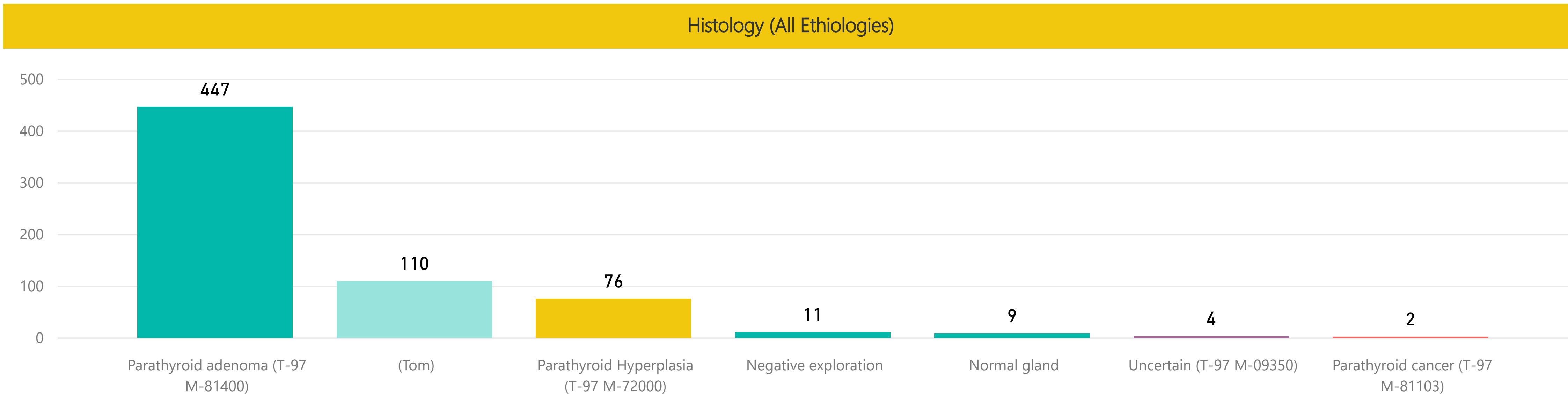
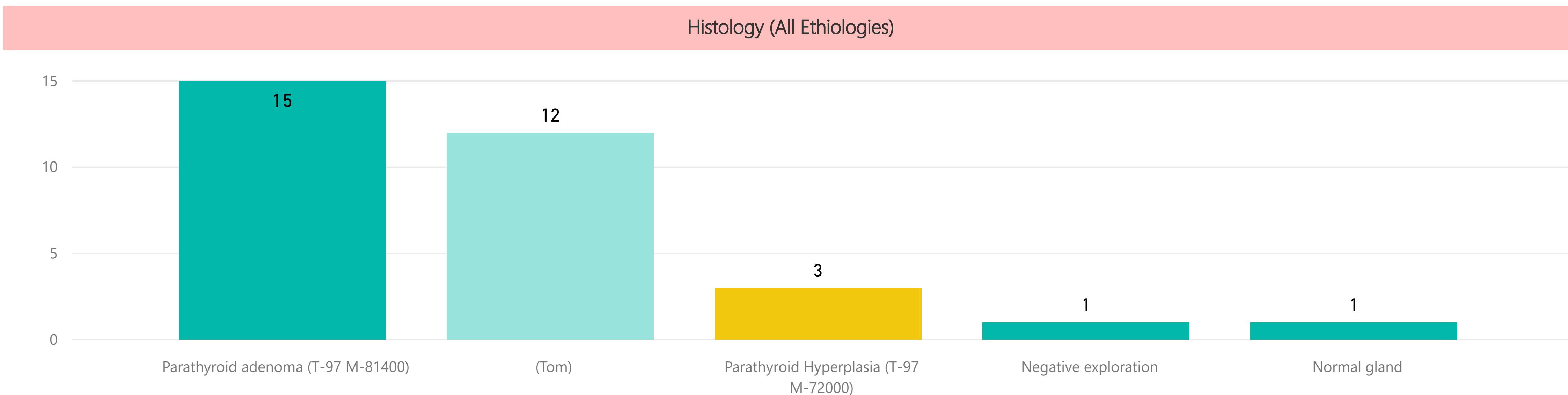


Starting Point of Bilateral Explorations in Hereditary Disease



# Parathyroids

## Histopathology Results

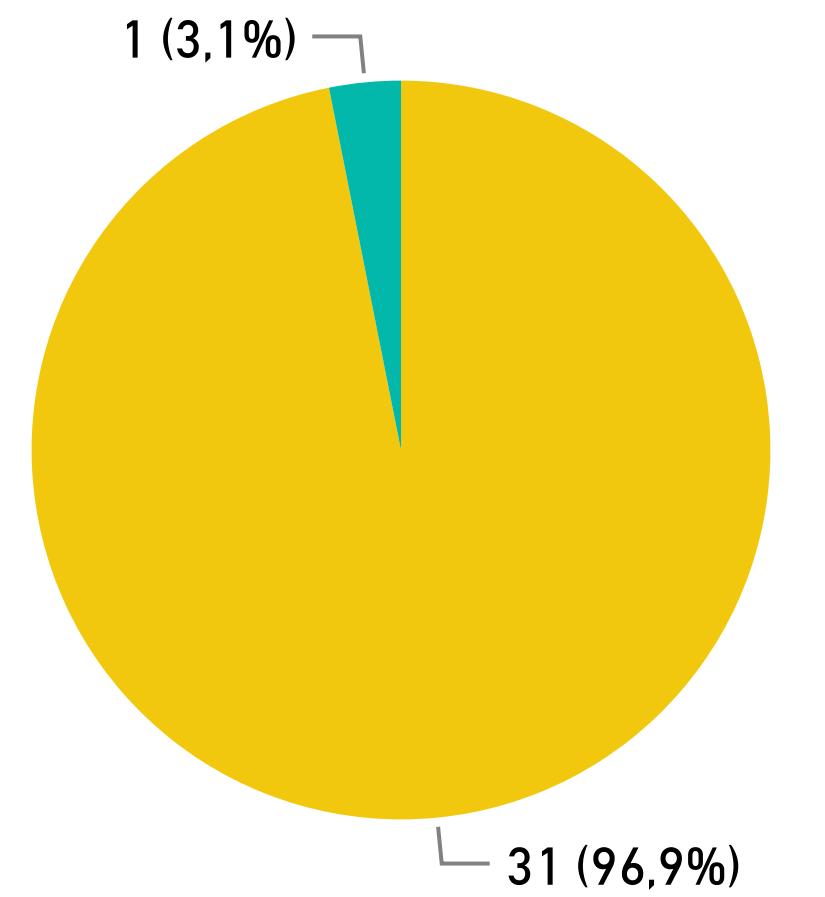


# Parathyroids

## Postoperative Laryngoscopy

### Postoperative Laryngoscopy

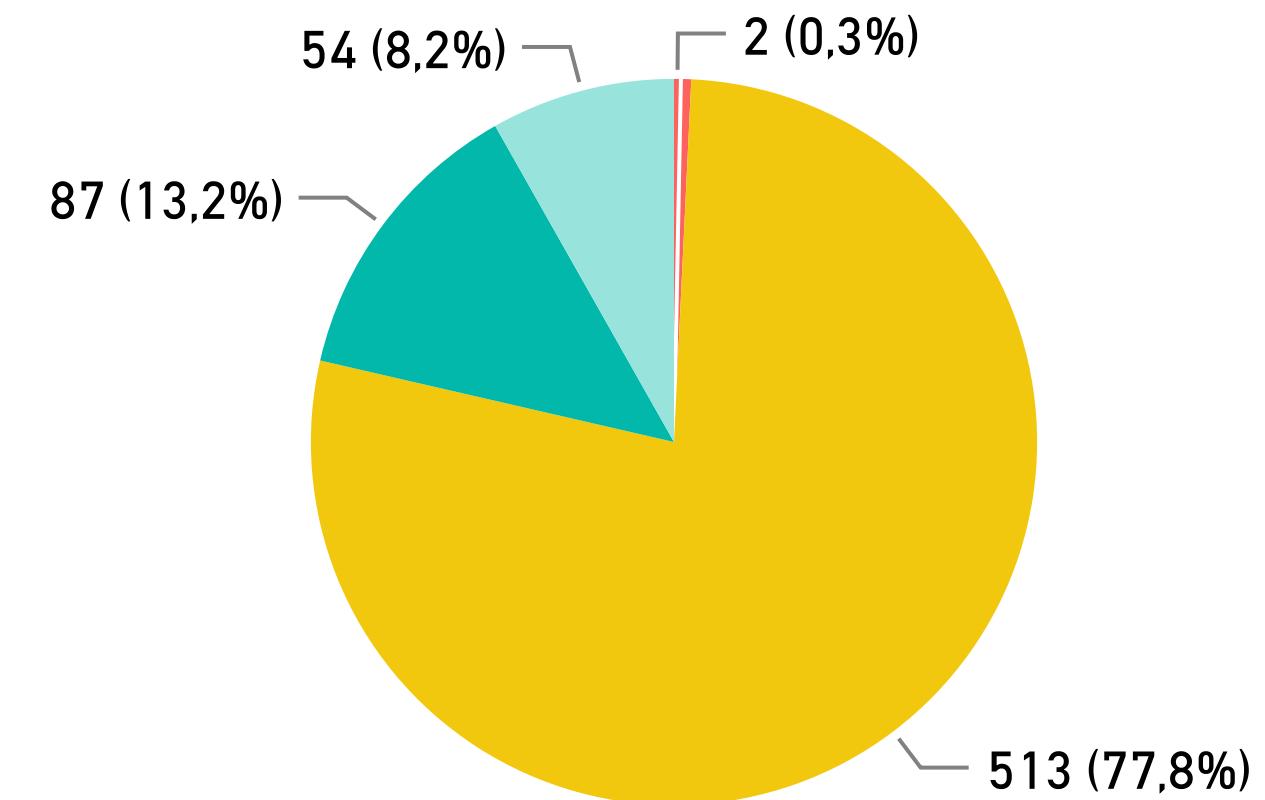
- Not performed
- Normal



Postoperative Laryngoscopy	n	%
Normal	1	3,13%
Not performed	31	96,88%
<b>Totalt</b>	<b>32</b>	<b>100,00%</b>

### Postoperative Laryngoscopy

- Paresis of the right recurrent laryngeal nerve
- Paresis of the left recurrent laryngeal nerve
- Not performed
- Normal
- (Tom)



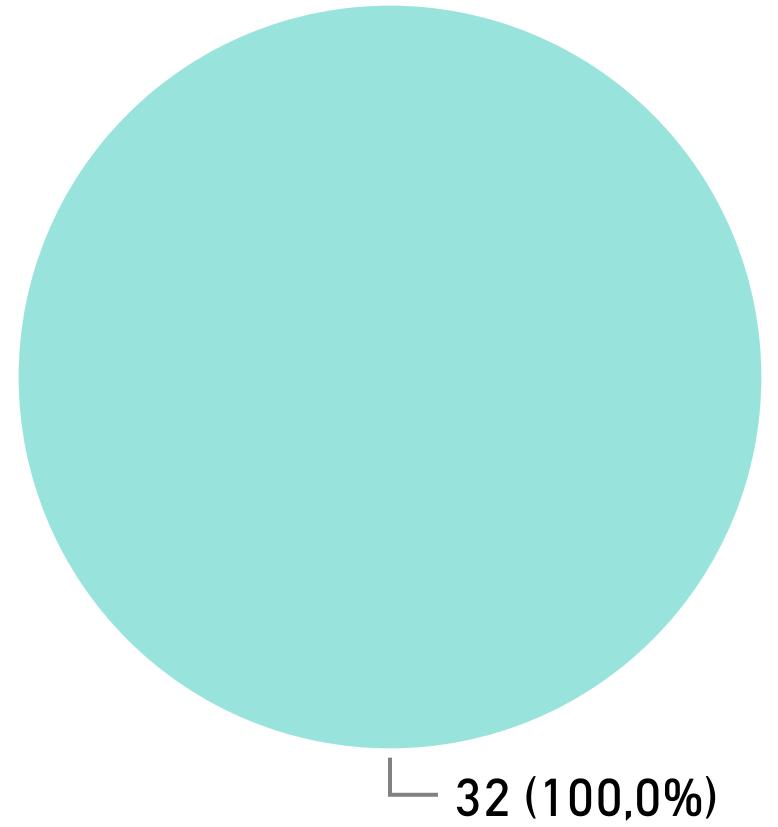
Postoperative Laryngoscopy	n	%
Normal	87	13,20%
Not performed	513	77,85%
Paresis of the left recurrent laryngeal nerve	3	0,46%
Paresis of the right recurrent laryngeal nerve	2	0,30%
<b>Totalt</b>	<b>659</b>	<b>100,00%</b>

# 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)

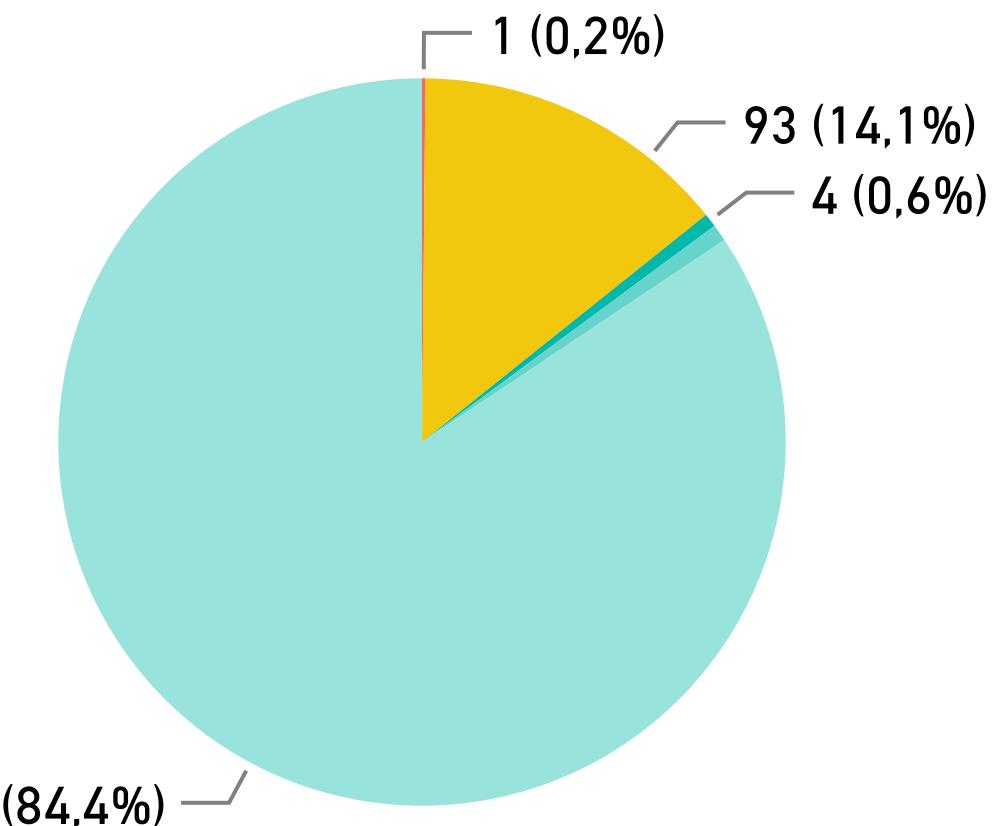
Paresis of the left recurrent laryngeal nerve

Not performed

Normal

No data available

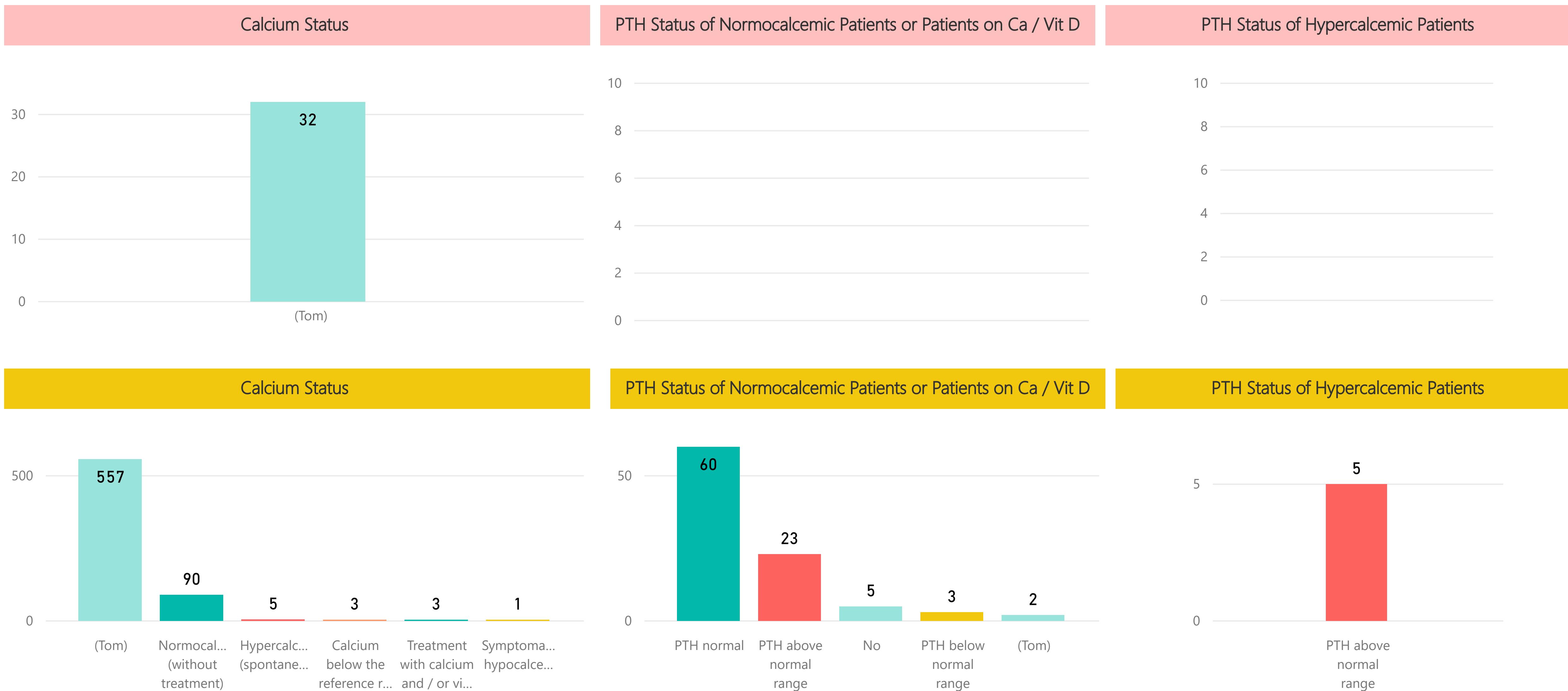
(Tom)



Laryngoscopy at Follow-up	n	%
	556	84,37%
No data available	5	0,76%
Normal	4	0,61%
Not performed	93	14,11%
Paresis of the left recurrent laryngeal nerve	1	0,15%
<b>Totalt</b>	<b>659</b>	<b>100,00%</b>

# Parathyroids

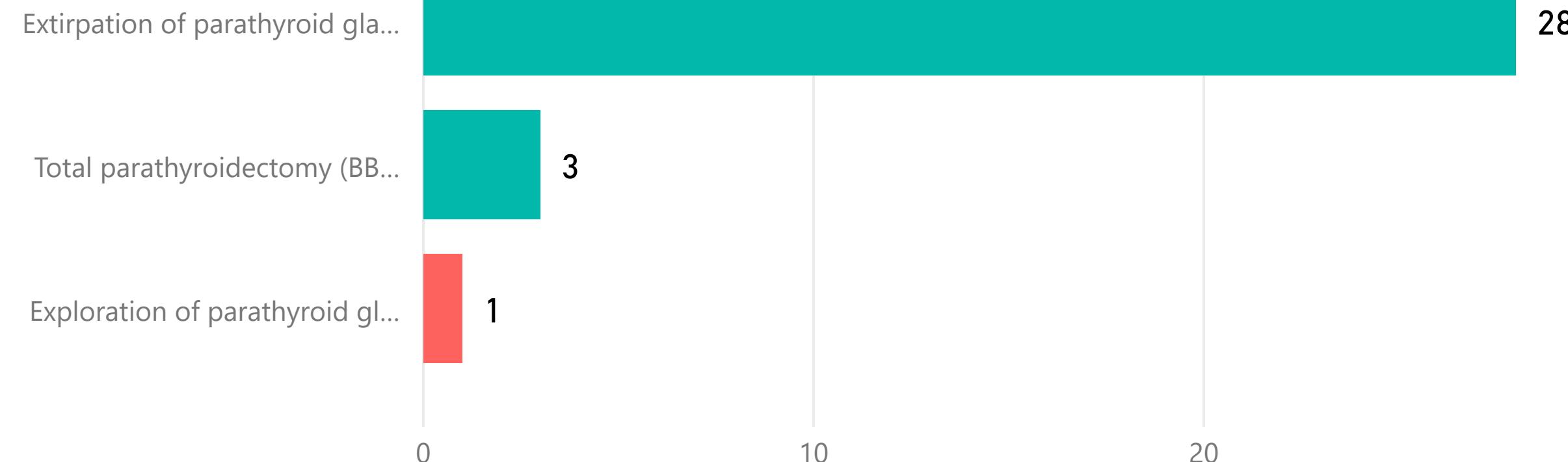
## Follow-up Data



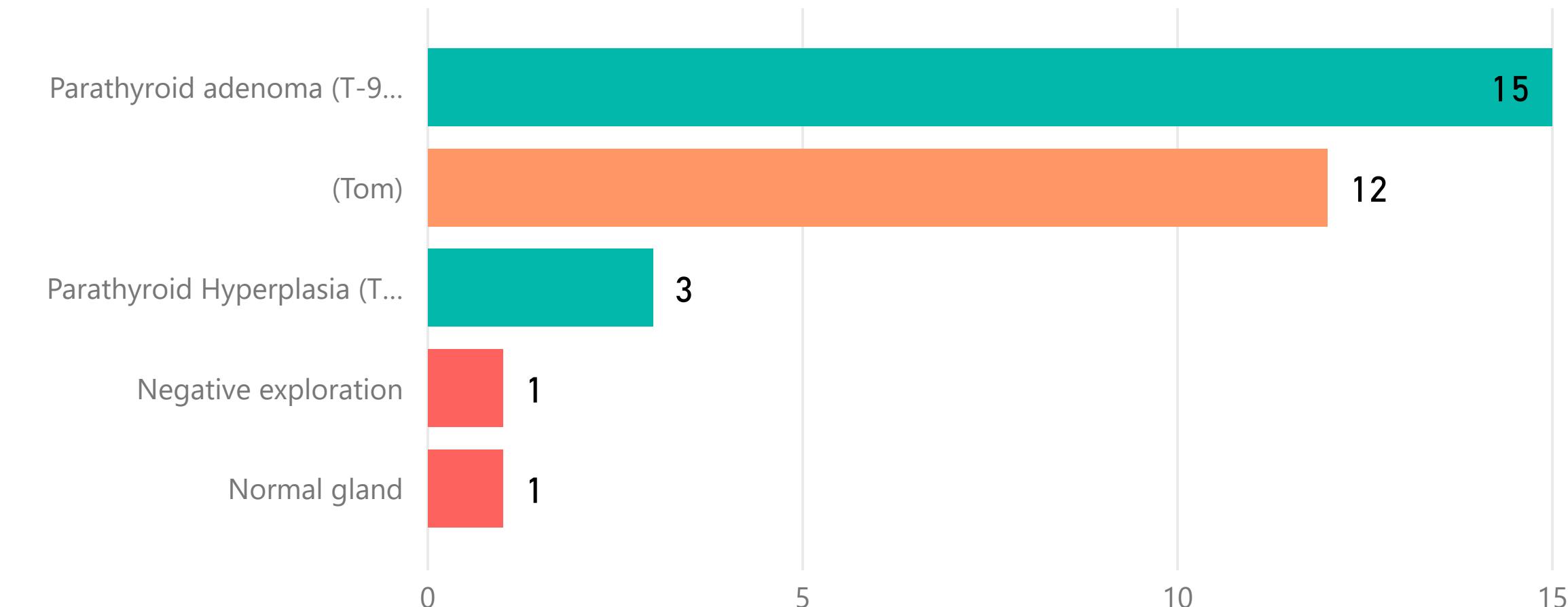
# Parathyroids

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

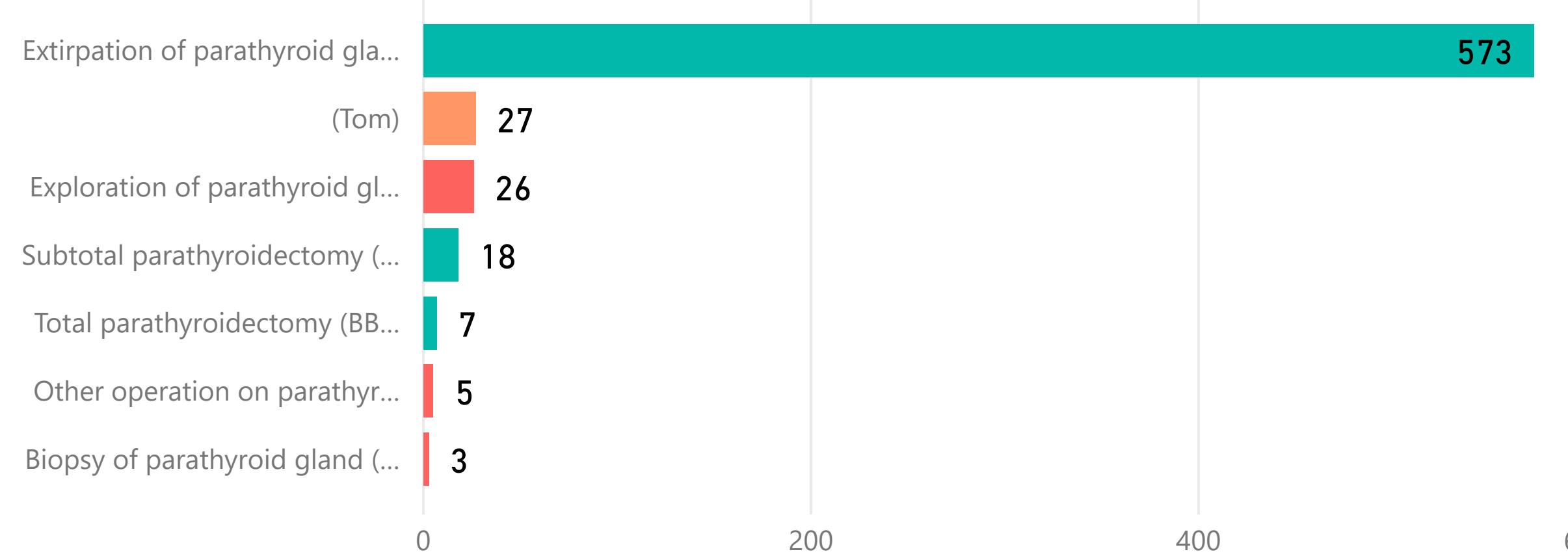
based on Selected Type of Operation



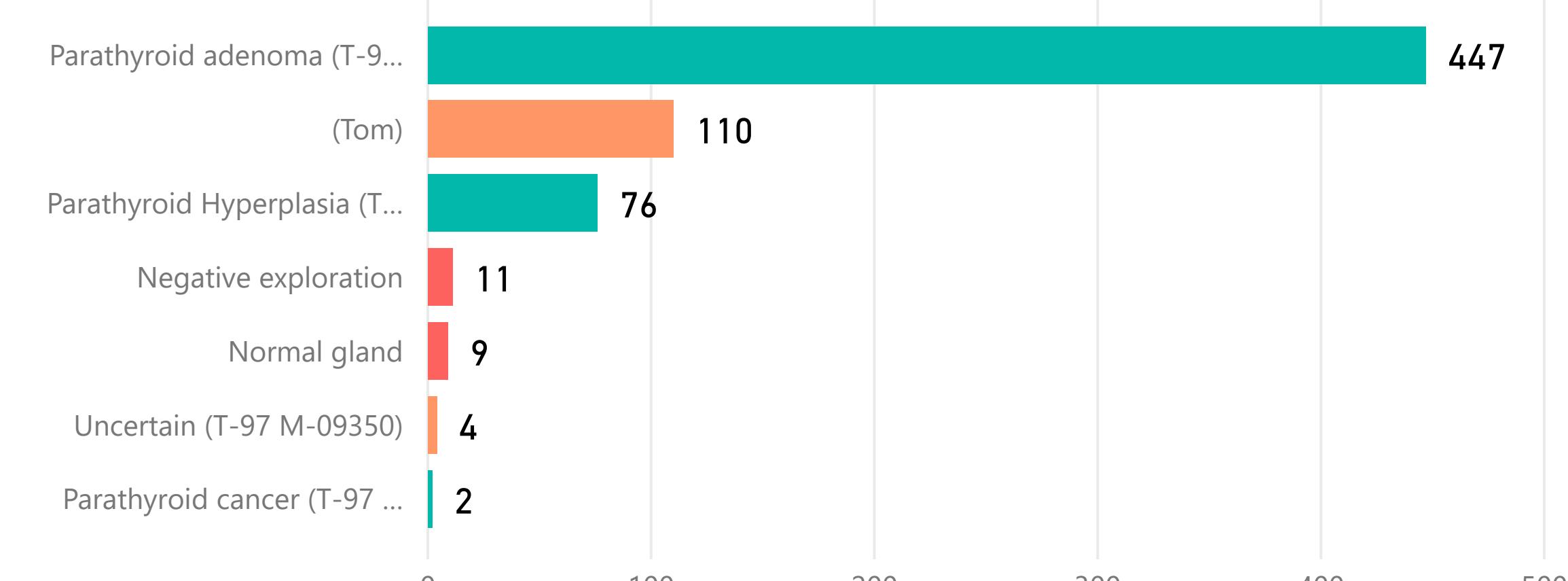
based on Selected Histological Main Diagnosis



based on Selected Type of Operation



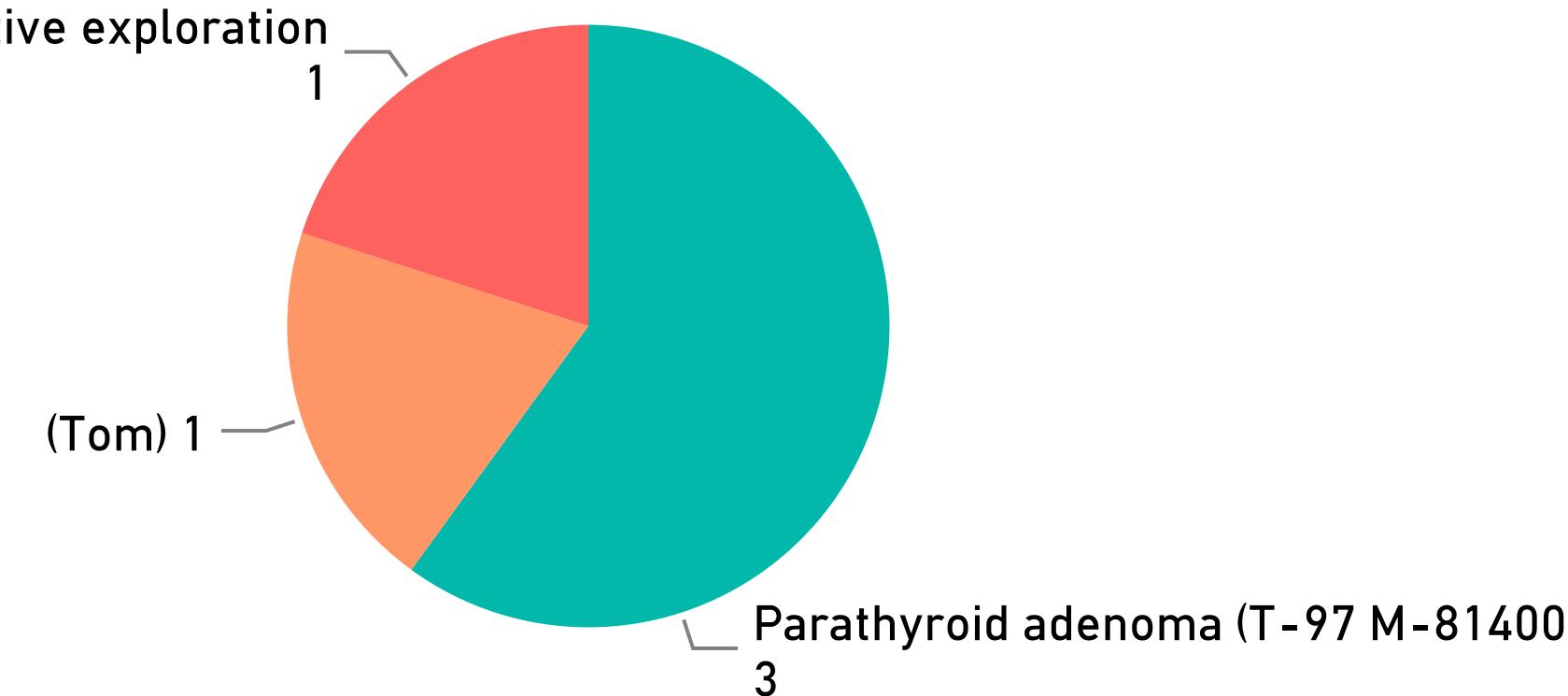
based on Selected Histological Main Diagnosis



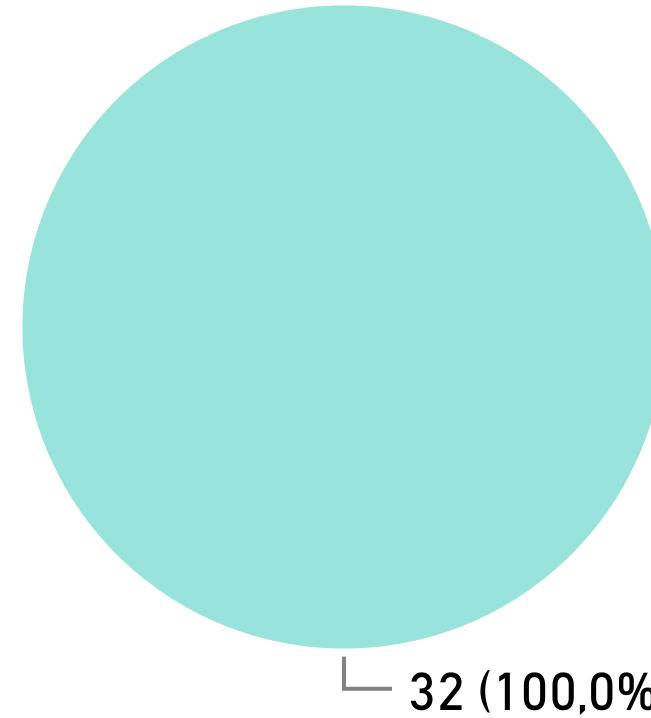
# Parathyroids

## 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

- (Tom)
- No
- No data available
- Yes

