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## Original Article

## Daycare thyroidectomy surgery – Our experience

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## ARTICLE INFO

## Article history:

Received 9 March 2015

Accepted 23 July 2015

## Keywords:

Daycare thyroidectomy

Case series

## ABSTRACT

**Background:** Outpatient surgery benefits patients and surgeons alike, as it is convenient, safe and cost-effective. We sought to assess the safety and feasibility of daycare thyroid surgery in a stand-alone Daycare Surgery Center in South India.

**Aim:** Our aim is to identify the difficulties, to formulate a protocol for daycare thyroidectomies and also to discuss its feasibility.

**Study design:** Case series.

**Methods:** We performed a prospective study of 71 patients who underwent total or hemithyroidectomy with or without neck dissection between January 2012 and March 2014 at Apollo Daycare Surgery Center, Chennai.

**Results:** Seventy-one patients met our inclusion criteria. Most patients were women (77%) and men were 23%. Only 1 patient developed haematoma, 1 patient developed tetany, and there was no incidence of stridor or recurrent laryngeal nerve injury.

**Conclusion:** Daycare thyroidectomies are safe and associated with low complication rate provided a strict inclusion and exclusion criteria is followed along with meticulous surgery.

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## 1. Introduction

The advent and betterment of outpatient surgery has dramatically changed the landscape of the profession.

Just as other innovations such as antibiotics and improved anaesthetics have led to better outcomes for surgical patients,

outpatient surgery has undoubtedly benefited patients and surgeons alike, as it is convenient, safe and cost-effective. However, many surgeons and institutions are hesitant to perform day surgery for some procedures. There are scant reports of daycare thyroid surgeries (DTS) in the literature. Many of the published studies on this topic have a small cohort of patients; others are highly selective and exclude total

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<http://dx.doi.org/10.1016/j.apme.2015.07.010>

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thyroidectomies or procedures performed to treat cancer. Finally, in several studies, the procedures are being performed in 23-hour stay units. It may not be that safe to discharge patients on the same day these procedures are performed. Hence, we sought to review the outcomes of patients who underwent thyroidectomies in an ambulatory centre. The procedures were performed to treat benign diseases and cancer and included hemithyroidectomies and total thyroidectomies with or without neck dissection.

## 2. Methods

We conducted a prospective study of DTS performed at Apollo Hospital, Chennai between January 2012 to March 2014.

Inclusion criteria for our study are outlined in Box 1.

Patients considered for this venue are made to meet an anaesthesiologist in the preoperative clinic and the patients are asked to remain in the city (within a 1-hour drive from the hospital) for 48 h after the operation. It is made mandatory that the patients remain in the presence of a second adult for the same period of time.

### 2.1. Inclusion criteria

The following aspects are considered criteria for inclusion: both benign and malignant thyroids, goitre of any size, euthyroid status, hypothyroid status corrected, patient residing in town, within a 1-hour drive from the hospital, for at least 48 h, patient seen in preadmission assessment clinic (by an anaesthesiologist) and cleared for day surgery (ASA grade I and II patients). Every patient was observed in the surgical day care unit for at least 4 h.

### 2.2. Exclusion criteria

The following aspects are considered criteria for exclusion: ASA Grade III and above patients, goitre with compressive symptoms, restrotrernal extension, coagulopathy and age more than 65 years.

### 2.3. Preoperative work up

Thyroid function tests: serum calcium, neck ultrasound/CT scan, FNAC, indirect laryngoscopy, chest X-ray including neck, preanaesthetic check up, counselling for day surgery and endocrinologist opinion.

### 2.4. Procedure

Neck extension  
Superficial cervical plexus block given  
Local anaesthetic infiltrated  
Standard skin crease incision given  
Strap muscles retracted  
Bipolar cautery only  
Both the recurrent laryngeal nerves always identified and preserved  
At least 2 parathyroids identified and preserved  
Minivac suction drain placed

## 3. Results

A total of 71 patients underwent procedures during our study period. Most patients were women. The number of total thyroidectomies is 48, which includes 3 one side modified radical neck dissection (MRND), 1 bilateral MRND and 6 central neck node dissections. The number of hemithyroidectomies is 23.

	N	Minimum	Maximum	Mean	Std. deviation
Age (years)	71	18	61	38.33	10.029
Valid N (listwise)	71				

	N	Minimum	Maximum	Mean	Std. deviation
Clinical size	71	3	10	4.92	1.918
Valid N (listwise)	71				

0	Frequency	Percent	Valid percent	Cumulative percent
Valid	Euthyroidism	86.1	86.1	86.1
	Hypothyroidism (corrected)	13.9	13.9	100.0
	Total	100.0	100.0	

		Frequency	Percent	Valid percent	Cumulative percent
Valid	Benign	57	80.29	80.29	80.29
	Malignant	14	19.71	19.71	100.0
	Total	71	100.0	100.0	

		Frequency	Percent	Valid percent	Cumulative percent
Valid	Total thyroidectomy	48	67.61	67.61	67.61
	Hemithyroidectomy	23	32.39	32.39	100.0
	Total	71	100.0	100.0	

- Benign thyroids – 57
- Malignants – 14
- Papillary carcinoma – 10
- Follicular carcinoma – 3
- Medullary carcinoma – 1

		Mean	N	Std. deviation	Std. error mean
Pair 1	Pre op-CA	9.508	71	0.5315	0.0886
	Post op-CA	8.894	71	0.6210	0.1035

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