## **EP613**

# Silent Incidental Adrenal Pheochromocytoma

#### Introduction:

The widespread ultrasound, computed abdominal tomography of use (CT) and magnetic resonance imaging (MRI) has led to a predictable rise in the will which discovery incidental adrenal lesions, some of be of silent pheochromocytoma .Thus about ten percent

of pheochromocytoma cases were diagnosed incidentally.

#### Methods:

The Average maximum tumor diameter, as detected by CT was 4,2 ± 0,9

cm. Mean Washout on delayed enhanced CT was 64 ±14 %. All the adrenal masses were heterogeneous and necrotic in 4 cases .

The urine fractionated metanephrine measurements were elevated at least 2 to 4 times above normal levels in 5 cases.

patients underwent surgical resection . All In all cases ,the

pheochromocytoma was benign as histologic founds.

studied retrospectively the notes of 23 patients with histologically We confirmed pheochromocytoma . Demographic information, pre-existing medical conditions, and the presence of classic pheochromocytoma symptoms were recorded. **Discussion**: The aim of our study was to investigate the clinical characteristics and functional status of those who were asymptomatic. Incidentally discovered pheochromocytomas are diagnosed in many patients **Results**: pheochromocytoma is increasing, and reaches nearly 30% in our study silent pheochromocytoma of (30 % patients with recorded seven We population . In two recent studies, 19 of 33 patients (57.6%) (1) and 19 of 46 confirmed pheochromocytoma). Mean patient age at presentation was  $39 \pm 11$ patients (41%) (2) with adrenal pheochromocytoma had tumours discovered years. No patient had a documented hypertension. A hypokalemia is found in only one patient. The seven patients had unilateral enlargement on the left side. The circumstance of detection was incidentaloma investigation in all cases , except for the patient number2 (Table 1) the adrenal mass was discovered intraoperative during surgery for a nephrolithiasis. This Last, during adrenalectomy, developed paroxysmal

The prevalence of an asymptomatic pheochromocytoma is estimated to be 11-21% (2,3), and retrospective studies have failed to define difference in demographic, radiographic, and pathological characteristics in sporadic tumours.

incidentally on imaging, however these were rather small cohorts.

before any symptoms develop. The number of incidentally discovered

hypertension which was readily controlled by intravenous administration of

nitroprussiate.

#### Table 1 : Characteristics summary of the seven patients

	Age (years)	Gender	circumstances of discovery	Diameter (cm)	Washout (%)	urine fractionated metanep hrine
Patient 1	54	F	Incidentaloma	4,5	60	2 times above normal
Patient 2	35	Μ	Histologic founds	6	-	_
Patient 3	28	Μ	Incidentaloma	3,9	46	2 times above normal
Patient 4	38	F	Incidentalooma	6	NP	4 times above normal
Patient 5	32	F	Incidentaloma	3	66	normal

In accordance to another study (3), patients with incidentally discovered

pheochromocytoma in our study were significantly younger than the patients

with findings indicative of catecholamine excess. We found a trend towards

larger pheochromocytomas in patients with incidental finding. In contrast, the

study by Amar et al did not find a difference in tumour size between incidentally

and suspected finding, but showed that patients with incidentaloma had lower

plasma catecholamine concentrations than patients with adrenergic symptoms.

#### conclusion :

Our study confirms the great variability of the clinical picture of

pheochromocytoma and that classical symptoms are far more infrequent. Most

likely due to improvement in availability and accessibility of imaging techniques,

Patient 6	28	Μ	Incidentaloma	3,2	53	4 times above normal
Patient 7	56	Μ	Incidentaloma	4	60	ND

the number of incidentally discovered pheochromocytoma is increasing further

indicating the necessity for sufficient screening for catecholamine excess in all

patients with adrenal incidentaloma.

### References

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