## Cushings syndrome due to carneys complex – Case series and report of a new mutation from a South Indian tertiary care centre

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## Introduction

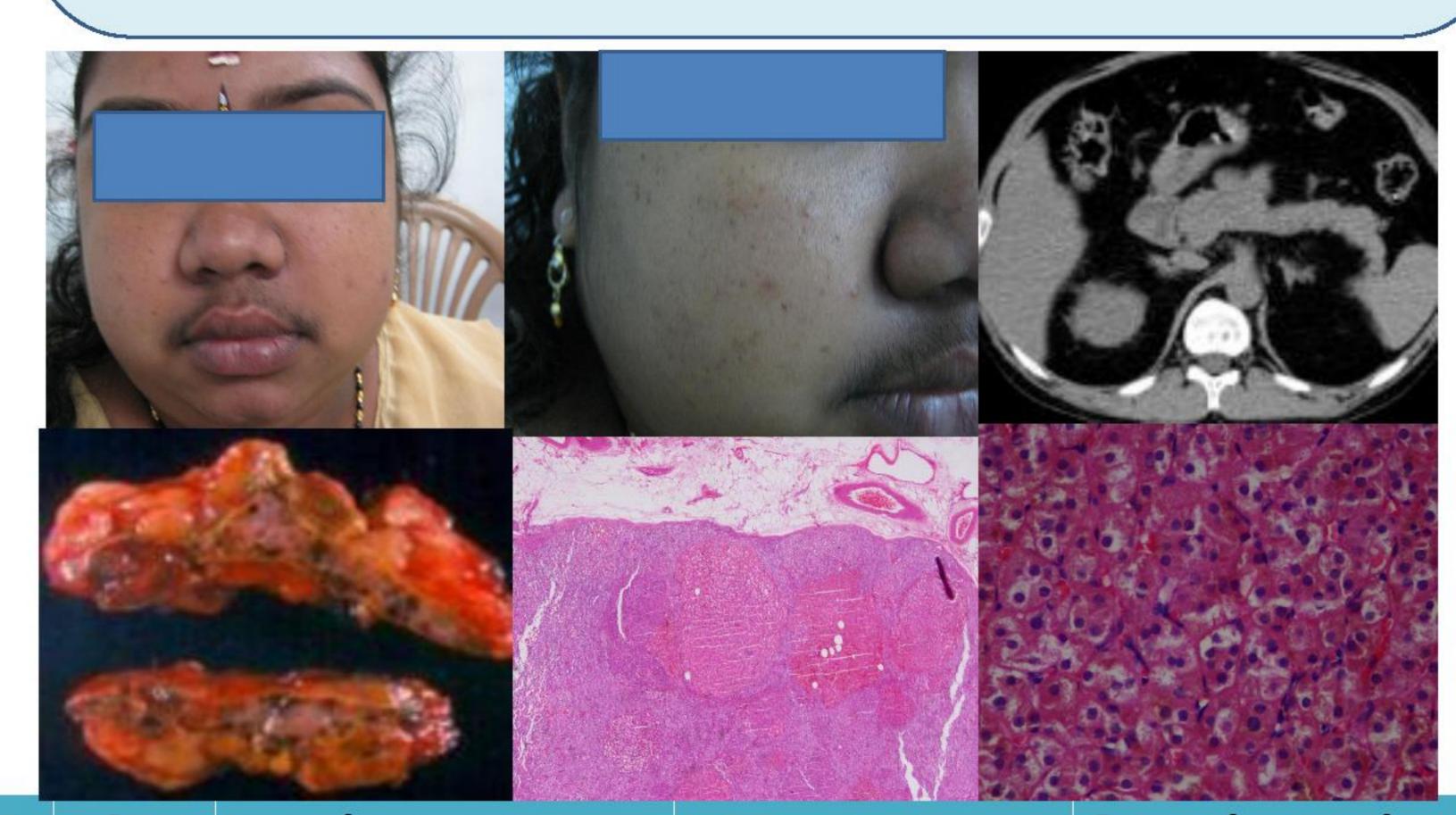
Carneys complex is an Autosomal Dominant condition characterised by spotty skin pigmentation, myxomas, endocrine and non endocrine tumors. Cushings syndrome due to PPNAD occurs in 25-45% of patients with carneys complex

## Method

We report case series of 3 patients diagnosed with cushings syndrome associated with carneys complex .Their clinical, biochemical, radiological and genetic details are described below.

## Clinical presentation

3 patients in our series were diagnosed between second and third decade. All the 3 patients had diabetes, hypertension, cushingoid features. Diagnosis was clinically suspected by the presence of lentigenes on the face.



SI.no	Sex					ONDST (ug/dl)			Imaging CT Abdomen and MRI Brain	HPR	Genetic testing
1.	M	21	25	3.7	25.8	26	45	<1	Nodular Left Adrenal Gland	PPNAD	Positive (C769G>A;E257K) New variant
2.		13	18	4.4	10	14.4	17.5	<1	Both Adrenals Normal Pituitary micro adenoma on MRI	PPNAD	Negative
3.	M	20	23	4	16	20.6	21.4	<1	Nodular Right Adrenal gland	Bilateral adreno cortical hyperplasia	Positive intronic IVS1-2 A>G splice site mutation

**Conclusion:** Multiple lentigenes, a classical hike in serum cortisol after dexamethasone administration, suppressed ACTH and radiological evidence of nodular adrenals can help us suspect carneys complex in a patient presenting with cushings syndrome. Genetic testing could be negative in 30-40% of patients.

**Follow up**: None of them had cardiac myxomas on screening.USG Neck and Scrotum were normal on screening. All the 3 patients underwent bilateral adrenalectomy. Patients 1 and 3 were under follow up and patient 1 on follow up had High grade olfactory Neuroblastoma (Esthesioneuroblastoma)



