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MEDULLARY THYROID CARCINOMA:

⇒ malignant neuroendocrine tumour derived from
- parafollicular cells or C-cells.

⇒ secrete calcitonin
Also secrete somatostatin, isotonin, vasoactive intestinal peptides

⇒ Associated with MEN syndrome
(Multiple neuroendocrine syndrome)

PATHOGENESIS:

1) Germline RET gene mutation is familial medullary thyroid carcinoma occurring in MEN-2.

Mutated RET leads to constitutive Activation of the tyrosine kinase Receptor And cell proliferation

MORPHOLOGY:

Number: solitary nodule is in sporadic
multicentric And bilateral in familial cases

Cut surface: firm And pale grey
necrosis And hemorrhage may extend through the capsule of the thyroid