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**Manuscript Type:** EVIDENCE REVIEW

**Current trend in the diagnosis and management of malignant pheochromocytoma:  
Clinical and prognostic factors**

Cassell III AK *et al.* Current trend in the management of malignant pheochromocytoma

Ayun K Cassell III, Abdoul Halim Bague

## Abstract

Pheochromocytomas are tumors arising from the chromaffin cell of the adrenal gland

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Publish Year: 2017

## [Malignant pheochromocytoma: a review - ScienceDirect](#)

<https://www.sciencedirect.com/science/article/pii/S0002961010003399>

May 01, 2011 - The medical subject heading **malignant pheochromocytoma** was used alone and in combination with treatment, imaging, and prognosis. Independent of these categories, additional articles with particular relevance to the topic were also included. Results **Diagnosis: clinical** laboratory, pathology, and imaging **Clinical**

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## [Outcomes of Patients with Metastatic Phaeochromocytoma ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5854189>

Choi YM, Sung T-Y, Kim WG, et al. **Clinical course and prognostic factors** in patients with **malignant pheochromocytoma** and paraganglioma: A single institution experience. *Journal of Surgical Oncology*. 2015; 112 (8):815–821. [Google Scholar]

Cited by: 20

Author: Oksana Hamidi, William Francis Young, ...

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Pheochromocytomas and paragangliomas occur in 2 to 8 people per million and <1% of patients with hypertension. 1-8 The peak incidence occurs during the fourth and fifth decades of life. 9 Lacking reliable morphological or histological criteria, the **diagnosis** of malignancy depends on **clinical** behavior. 10-12 Depending on the genetic background ...

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**Publish Year:** 2008

## Pheochromocytoma/paraganglioma: recent updates in genetics ...

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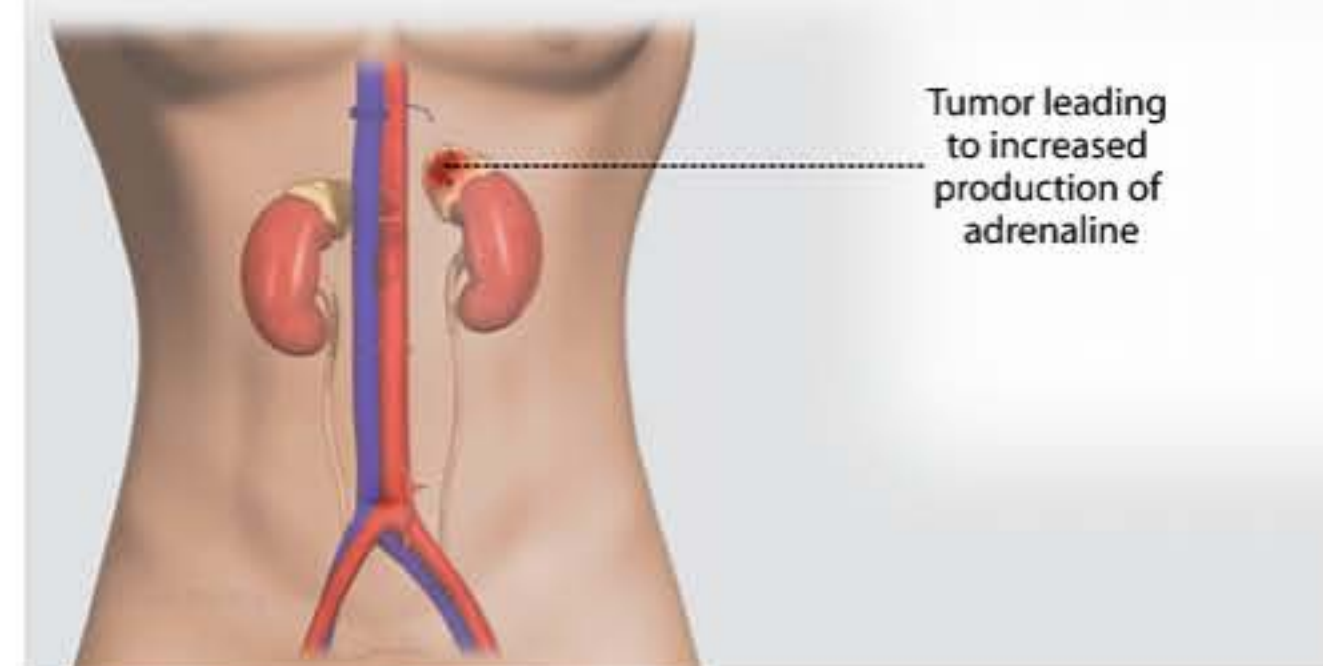
Mei L, Khurana A, Al-Juhaishi T, et al. **Prognostic Factors of Malignant Pheochromocytoma** and

<https://global.bing.com/?FORM=Z9FD1> paraganglioma: A Combined SEER and TCGA Databases Review. Horm Metab Res 2019;51:451-7.

## Pheochromocytoma

Medical Condition

Non-cancerous tumor that develops in the adrenal gland



A tumor originating in cells of the adrenal gland that causes overproduction of certain hormones.

🏠 Very rare (Fewer than 20,000 cases per year in US)

🧪 Often requires lab test or imaging

👨‍⚕️ Treatment from medical professional advised

🕒 Can last several years or be lifelong

Pheochromocytomas are largely familial. They are associated with genetic mutations and syndromes. High blood pressure, sweating, rapid heartbeat and difficulty in breathing are some of the symptoms. Treatment involves surgery to remove the tumor.

## Symptoms

The most common symptoms are :