

#DIBS BY NEXTILLO

DAILY INFORMATION BULLETIN SERVICE

WILM'S TUMOR (NEPHROBLASTOMA)





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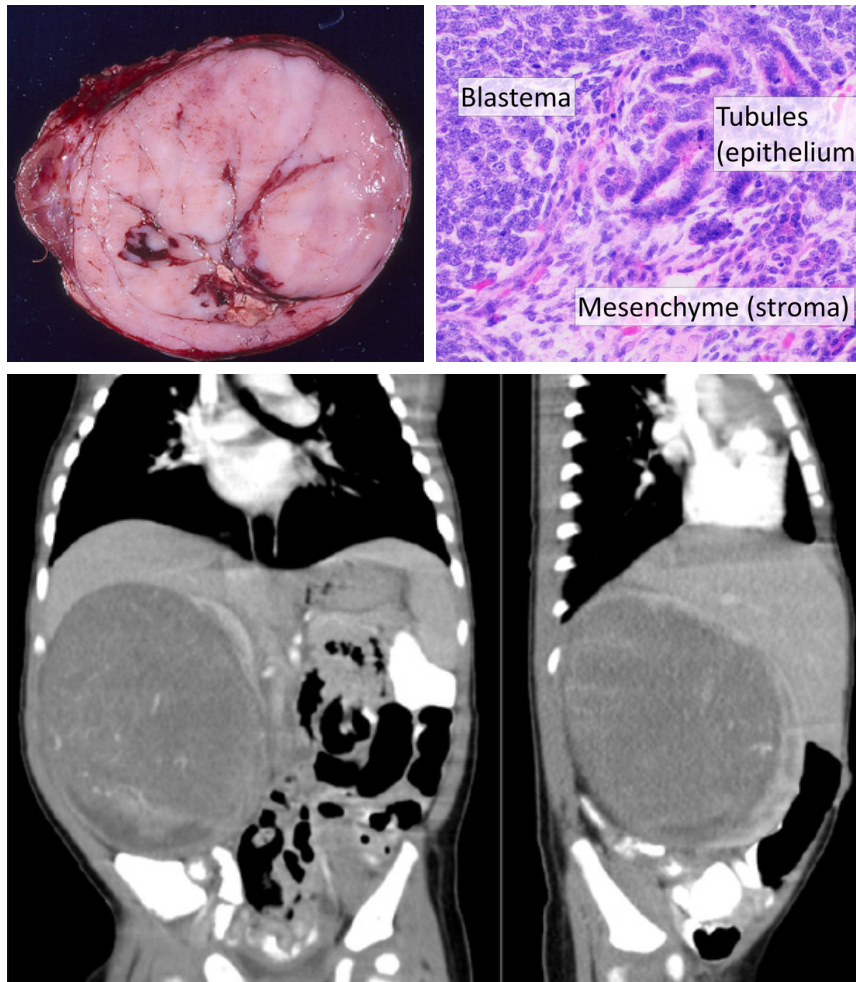
Wilms tumor is a childhood kidney cancer that originates from immature kidney cells. It is the most common renal tumor in children.

Variants:

- *Classic Wilms tumor: Dominant form with characteristic triphasic histology.*
- *Anaplastic Wilms tumor: More aggressive, with higher risk features.*
- *Diffuse anaplasia: Subset with unfavorable prognosis.*



CLINICAL IMPRESSION



Coronal and sagittal section of CT demonstrate a large, heterogeneous mass arising from the right kidney. A small part of functioning right kidney is seen to enhance.



RISK FACTORS

- *Usually affects children aged 3 to 4 years.*
- *Abdominal mass is a common presentation.*
- *Hypertension may occur due to renin secretion by the tumor.*
- *Fever, hematuria, and abdominal pain are possible symptoms.*
- *Triad of Intra abdominal mass, Fever, Microscopic hematuria.*



INVESTIGATIONS

- *Imaging (ultrasound, CT, MRI) for tumor localization and staging.*
- *Histological examination of biopsy for definitive diagnosis.*
- *Blood tests: Renal function, complete blood count.*

Routes of Spread

- *Local invasion into surrounding structures.*
- *Lymphatic spread to regional lymph nodes.*
- *Hematogenous spread to lungs and liver.*



STAGING

- **Stage I:** *Tumor limited to the kidney, completely excised.*
- **Stage II:** *Tumor extends beyond the kidney, completely excised.*
- **Stage III:** *Residual tumor remains after surgery or tumor involves nearby structures.*
- **Stage IV:** *Hematogenous metastasis (e.g., lungs, liver).*
- **Stage V:** *Bilateral renal involvement at diagnosis.*



MANAGEMENT

Nephrectomy:

Surgical removal of the affected kidney is the primary treatment.

Neoadjuvant Therapy:

Administered before surgery to shrink the tumor.

Adjuvant Therapy:

Given after surgery to target any remaining cancer cells.

Radiation Therapy:

Used in certain cases, particularly for anaplastic Wilms tumor or when there is incomplete surgical removal.



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Question:

Which histological variant of Wilms tumor is associated with a more aggressive behavior?

- A) *Classic Wilms tumor*
- B) *Anaplastic Wilms tumor*
- C) *Diffuse anaplasia*
- D) *Clear cell Wilms tumor*

Ans: C) Diffuse anaplasia