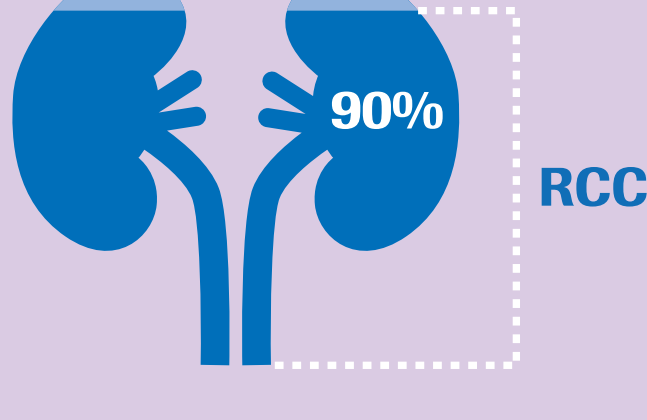


Renal cell carcinoma: the facts

Diagnosis

Renal cell carcinoma (RCC) is the most common form of kidney cancer, accounting for ~90% of all diagnoses¹

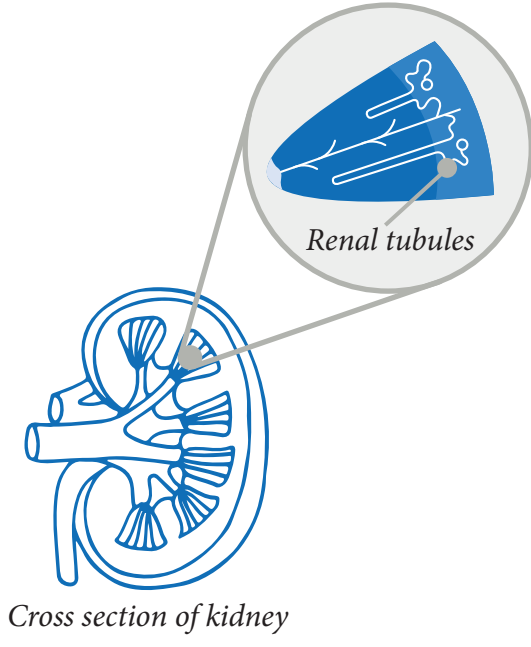


There are

>300,000

new cases of RCC diagnosed each year, globally^{1,2}

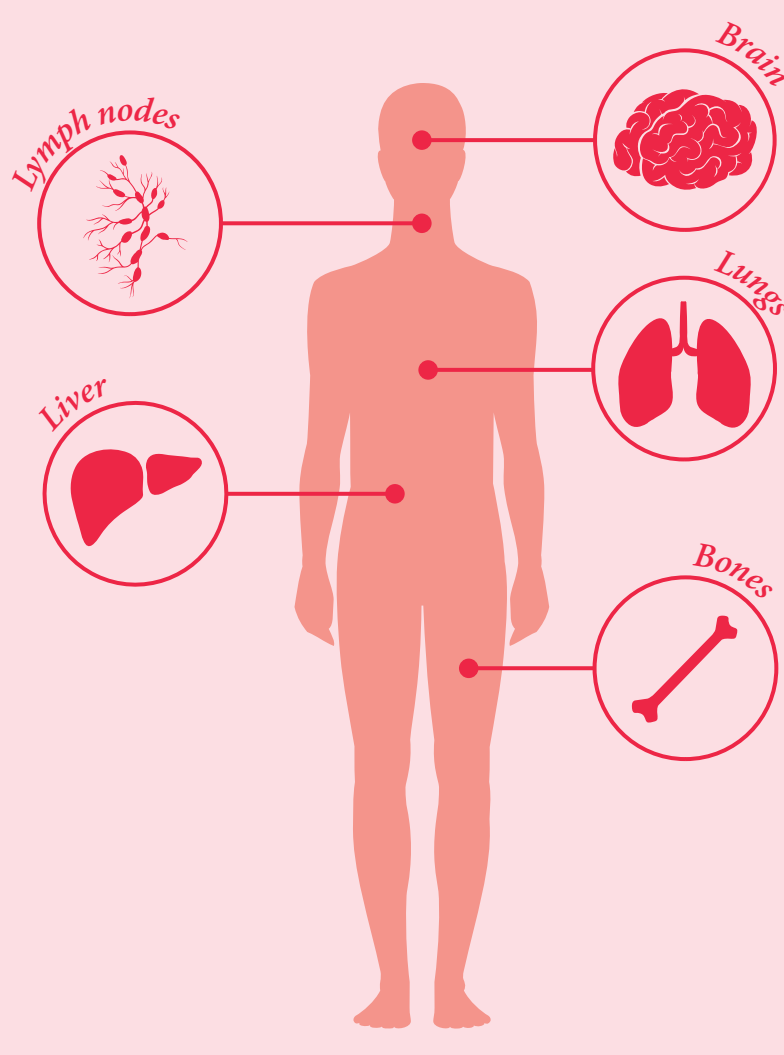
Biology



Cross section of kidney

RCC occurs when abnormal cells develop in the small tubes (known as renal tubules) in the kidneys³

When the cancer spreads beyond the kidney, it is termed metastatic RCC⁴



Risk factors⁵

Incidence increases with age (until around 70 years)

Men are more likely to develop RCC than women

Presence of other genetic diseases

Non-modifiable

Modifiable

Occupational exposure to industrial chemicals

Smoking

Obesity

Presence of other medical conditions such as increased blood pressure

Symptoms

Many patients do not experience symptoms until the late stage of the disease when the disease has spread to other parts of the body³



When symptoms do occur, they can include (but are not limited to):⁶



Prognosis

Prognosis varies depending on the stage of the cancer at diagnosis⁷

The proportion of people alive after 5 years

93%



Localised

12%

Metastatic



These statistics prove the importance of seeking a diagnosis and receiving treatment at the earliest point possible

Treatment options exist for RCC and include:



Surgery



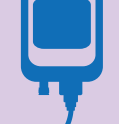
Targeted therapies



Cytokine therapy



Cancer immunotherapies



Chemotherapy

In the metastatic stage, complete responses to treatment are sadly rare and patients' tumours can become resistant to them. It is clear that a need for progress remains.

References

1. American Cancer Society. What is kidney cancer? Available at: <http://www.cancer.org/cancer/kidneycancer/detailedguide/kidney-cancer-adult-what-is-kidney-cancer> Last accessed January 2017
2. World Health Organization. GLOBOCAN 2012: Estimated cancer incidence, mortality and prevalence worldwide. Available at: http://globocan.iarc.fr/Pages/fact_sheets_population.aspx Last accessed January 2017.
3. Calculation of 300,000 new RCC cases/year: 90% of Kidney cancers are RCC¹, 90% of 337860 (incidence of kidney cancer per year)²= 304074
4. Cancer.gov. Renal Cell Cancer Treatment (PDQ®)- Patient Version. Available at: <https://www.cancer.gov/types/kidney/patient/kidney-treatment-pdq#section/26> Last accessed January 2017
5. Ridge CA et al. Epidemiology and Staging of Renal Cell Carcinoma. *Semin Intervent Radiol.* 2014;31(1): 3-8. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3930658/> Last accessed January 2017
6. Cleveland Clinic. The Facts About Kidney Cancer. Available at: <http://my.clevelandclinic.org/health/articles/the-facts-about-kidney-cancer> Last accessed January 2017
7. SEER. Stat Fact Sheets: Kidney and Renal Pelvis Cancer. Available at: <https://seer.cancer.gov/statfacts/html/kidrp.html> Last accessed January 2017