

Federaal Kenniscentrum voor de Gezondheidszorg Centre Fédéral d'Expertise des Soins de Santé Belgian Health Care Knowledge Centre

Renal cancer in adults

Diagnosis, treatment and follow-up

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Background

Renal cancer in figures*

Men

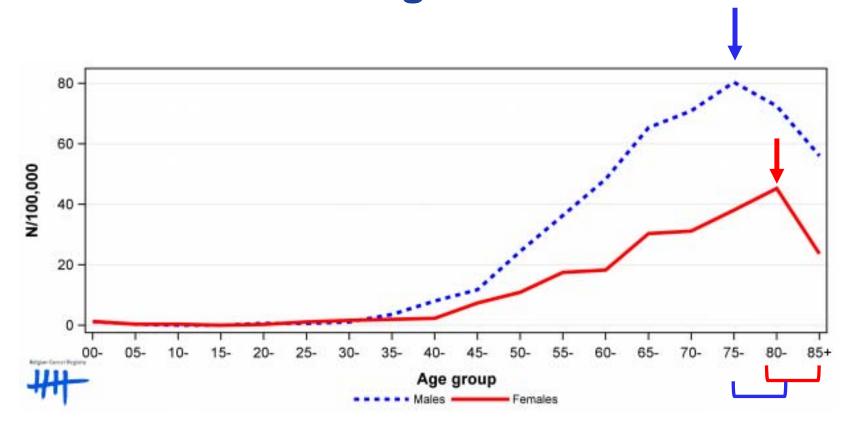
- 1060 cases in 2012
- Age-standardized incidence: 15.8/100 000 per year

Women

- 600 cases in 2012
- Age-standardized incidence: 7.5/100 000 per year

Background

Renal cancer in figures*



Scope of the guideline

Diagnosis Treatment Follow-up





Methodology

23 questions to update

Method

Partial ADAPTE

Reference

- IKNL Niercelcarcinoom 2010
- AUA Follow-up for clinically localized renal neoplasms 2013
- EAU Guidelines on renal cell carcinoma 2014 update

Update

Updated from search date on

GDG

Online surveys & meetings



Methodology

 1 full search question: Long-term outcomes of partial nephrectomy (PN) and radical nephrectomy (RN) in localized tumour RCC

SR

Medline-Embase-Cochrane

Quality appraisal: AMSTAR

RCT

- Medline-Embase-Cochrane
- Quality appraisal: Cochrane collaboration's tool

Obs

- Medline-Embase-Cochrane
- Quality appraisal: Generic tool



Clinical recommendations

Diagnosis Treatment Follow-up





Diagnosis

Recommended

- → CT or MRI
- → CT thorax for tumour ≥ T2 or ≥ N1 or M1
- → Biopsy before ablative or systemic therapy

Not Recommended

In routine

- → Bone scan
- → Brain imaging
- → PET-CT

Best Practice

- → Use the current TNM classification system
- → Use grading systems and classification of renal cell carcinoma subtypes



Prognosis

Recommended

- → TNM
- → Nomogram
- → Integrated prognostic system

Not Recommended

Molecular prognosis marker



✓ Short life expectancy, frail patients (elderly)or comorbid patients

Recommended

- → If small masse(s), offer active surveillance
- → Otherwise, ablative therapy (radiofrequency ablation or cryotherapy)



✓ Surgical patients

Recommended

T1-2 N0 M0

- → Laparoscopic partial nephrectomy in centres with laparoscopic expertise
- → If not technically feasible, laparoscopic radical nephrectomy in centres with laparoscopic expertise
- → Excision of caval thrombus + if supradiaphragmatic thrombus treatment centre with expertise in cardiopulmonary surgical-technical protocols

Recommended

\geq T2 or \geq N1 or M1

→ Cytoreductive nephrectomy



✓ Surgical patients

Not recommended

- Adjuvant therapy
- Radical nephrectomy when partial nephrectomy is feasible
- → In routine
- * Adrenal gland removal
- * Lymph node dissection (except when clinically proven, for staging purpose or local control)
- * Embolization



✓ Patients non eligible for surgery

Recommended

Systemic treatment

First-line therapy:

<u>ALL</u>: Sunitinib, pazopanib <u>Low or Intermediate RISK</u>: Bevacizumab + IFN- α <u>Low RISK</u>: Temsirolimus

→ Second-line therapy

<u>ALL</u>: Sorafenib <u>AFTER CYTOKINES:</u> Sorafenib, sunitinib or pazopanib <u>AFTER VEGF-PATHWAY:</u> Axitinib, Everolimus

→ Third-line therapy

ALL: Everolimus or sorafenib

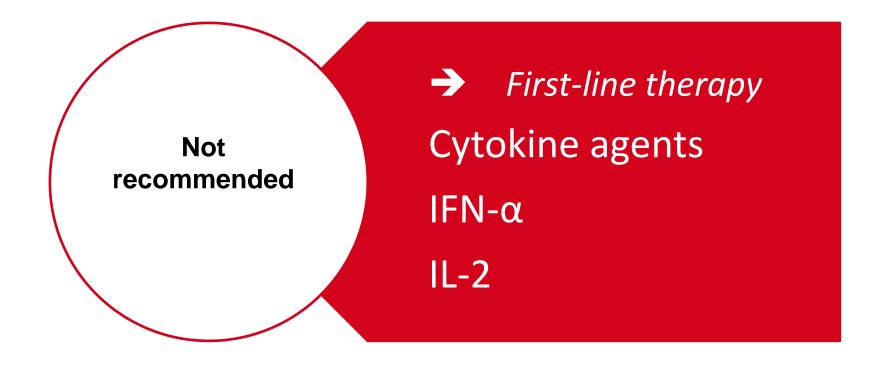
Recommended

Palliative care:

- Embolization
- → General recommendations (see KCE report 115B)



✓ Patients non eligible for surgery





Follow-up



- ACTIVE SURVEILLANCE: CT or MRI within 6 months of initiation followed by imaging (US, CT or MRI) at least annually thereafter
- → ABLATIVE THERAPY: CT or MRI +/- intravenous contrast at 3 and 6 months, followed by annual CT or MRI thereafter for 5 years
- → Low-RISK DISEASE (pT1, N0, Nx, M0; R0): no routine imaging follow-up
- → MODERATE TO HIGH-RISK: baseline chest and abdominal scanning (CT or MRI) within 3 to 6 months following surgery with follow-up imaging (CT or MRI) every six months for at least three years and annually thereafter to 5 five



Patient support

Best Practice

- The patient must have the opportunity to be fully informed about his condition, the treatment options, and consequences. Information should be correct, communicated in a clear and unambiguous way and adapted to the individual patient. Patient preferences should be taken into account when a decision on a treatment is taken. Special attention should be given to breaking bad news and coping with side effects.
- → Psychosocial support should be offered to every patient, from diagnosis on





Guideline

Implementation





Update guideline



Evaluation





Colophon

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