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Cancer Center Making Cancer History* Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.

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FURTHER WORKUP

Note: Consider Clinical Trials as treatment options for eligible patients.

Patients with renal cell carcinoma (RCC) diagnosed before age 46, regardless of histology, should be referred for genetic counseling and consideration of hereditary RCC syndromes.

INITIAL EVALUATION



²Retroperitoneal lymph nodes up to 3 cm do not imply unresectable disease. Lymph node biopsy not indicated.

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MDAnderson Renal Cell Carcinoma

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NED = no evidence of disease

¹GCC should be initiated by the Primary Oncologist. If Primary Oncologist is unavailable, Primary Team/Attending Physician to initiate GCC discussion and notify Primary Oncologist. Patients, or if clinically indicated, the Patient Representative should be informed of therapeutic and/or palliative options. GCC discussion should be consistent, timely, and re-evaluated as clinically indicated. The Advance Care Planning (ACP) note should be used to document GCC discussion. Refer to GCC home page (for internal use only).

² High risk of relapse include clear cell histology, pT2G4, any pT3, pT4, pN1, or M1 who became NED after resection of metastases

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CLINICAL PRESENTATION Suspicion of Consider appropriate consultations: metastatic disease Yes . • Surgery • Energy ablation Anatomically • Radiation therapy Embolization threatening (e.g., brain lesion, imminent Staging: Multiple pathologic fracture, • CT chest, abdomen, Metastases • Consider cytoreductive nephrectomy if or biliary and pelvis primary tumor in place, after appropriate obstruction)? • CBC with differential. No multidisciplinary discussion CMP, LDH, and UA • Biopsy if not surgical candidate • MRI brain if clinically indicated Refer to • Bone scan or bone survey systemic regimens, Solitary if clinically indicated → see Page 6 for clear metastasis • Consider biopsy cell and Page 7 for non-clear cell If primary in place, consider Consider local control modalities: cytoreductive nephrectomy, after • Surgery • Energy ablation appropriate multidisciplinary discussion • Radiation therapy Embolization No Metastasis surgically resectable? • Discuss adjuvant therapy¹ or Yes • Surveillance (see Page 8) • Resect metastasis Yes • If primary in place, consider cytoreductive Surgically CMP = comprehensive metabolic panel nephrectomy, after appropriate multidisciplinary NED? LDH = lactate dehydrogenase discussion No NED = no evidence of disease Refer to UA = urinalysissystemic regimens, see Page 6 for

¹ For stage M1 with NED after nephrectomy or resection of metastatic lesions, consider clinical trial or adjuvant pembrolizumab for up to a year

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clear cell and Page 7 for non-clear cell

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TREATMENT

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- Intermediate risk: meets 1-2 features below
- Poor risk: meets 3 or more features below Features include:
- Time from diagnosis to treatment < 1 year
- Karnofsky Performance Status < 80% • Hypercalcemia (total calcium corrected for albumin)
- Thrombocytosis

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- - Anemia
 - Neutrophilia

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PATHOLOGY

SYSTEMIC TREATMENT¹



HLRCC = hereditary leiomyomatosis and renal cell cancer RCC = renal cell carcinoma

¹See Appendix A for drug dosing and schedule

² Not on MD Anderson formulary

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SURVEILLANCE

Risk Classification

If final microscopic surgical margins are positive for cancer, the risk category should be considered at least one level higher, and increased clinical vigilance should be exercised

Low Risk (LR): pT1 and Grade 1/2

Intermediate Risk (IR): pT1 and Grade 3/4, or pT2 any Grade

High Risk (HR): pT3 any Grade

Very High Risk (VHR): pT4 or pN1, or sarcomatoid/rhabdoid dedifferentiation, or macroscopic positive margin

Recommended follow-up	schedule after surger	y for renal cancer	(in months) ¹
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Risk	3	6	9	12	18	24	30	36	48	60	72-84	96-120
LR	-	-	-	Х	-	Х	-	-	Х	Х	Х	Х
IR	-	Х	-	Х	-	Х	-	Х	Х	Х	Х	X
HR	-	Х	-	Х	Х	Х	Х	Х	Х	Х	Х	Х
VHR	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

Recommended follow-up schedule after thermal ablation (in months)^{1,2}

Months after ablation	3	6	9	12	18	24	30	36	48	60	72-84	96-120
Follow up	-	Х	-	Х	-	Х	-	Х	Х	Х	Х	Х

¹Follow-up timeline is approximate and allows flexibility to accommodate reasonable patient, caregiver, and institutional needs. Each follow-up visit should include relevant history, physical examination, laboratory testing, and abdominal and chest imaging. Overall, 30% of renal cancer recurrences after surgery are diagnosed beyond 60 months. Informed/shared decision-making should guide surveillance decisions beyond 60 months.

² Patients undergoing ablative procedures with biopsy that confirmed malignancy or was non-diagnostic should undergo pre- and post-contrast cross-sectional abdominal imaging within 6 months (if not contraindicated). Subsequent follow-up should be according to the recommendations for the intermediate risk postoperative protocol.

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APPENDIX A: Drug Dosing

Drug	Dose and Schedule
Axitinib	5 mg PO twice daily
Axitinib plus avelumab	 Axitinib 5 mg PO twice daily Avelumab 800 mg IV every 2 weeks
Axitinib plus pembrolizumab	 Axitinib 5 mg PO twice daily Pembrolizumab 200 mg IV every 3 weeks <u>or</u> 400 mg IV every 6 weeks
Belzutifan ¹	120 mg PO daily
Bevacizumab	10 mg/kg IV every 2 weeks <u>or</u> 15 mg/kg IV every 3 weeks
Cabozantinib ¹	60 mg PO daily
Cabozantinib ¹ plus nivolumab	• Cabozantinib 40 mg PO daily • Nivolumab 240 mg IV every 2 weeks <u>or</u> 480 mg IV every 4 weeks
Erlotinib plus bevacizumab	 Erlotinib 150 mg PO daily Bevacizumab 10 mg/kg IV every 2 weeks <u>or</u> 15 mg/kg IV every 3 weeks
Everolimus	10 mg PO daily
Ipilimumab plus nivolumab	 Ipilimumab 1 mg/kg IV plus nivolumab 3 mg/kg (maximum dose 240 mg) IV every 3 weeks for 4 doses, <u>then</u> Nivolumab 6 mg/kg (maximum dose 480 mg) IV every 4 weeks
Lenvatinib plus everolimus	 Lenvatinib 18 mg PO daily Everolimus 5 mg PO daily
Lenvatinib plus pembrolizumab	 Lenvatinib 20 mg PO daily Pembrolizumab 200 mg IV every 3 weeks <u>or</u> 400 mg IV every 6 weeks
Nivolumab	6 mg/kg (maximum dose 480 mg) IV every 4 weeks <u>or</u> 3 mg/kg (maximum dose 240 mg) IV every 2 weeks
Pazopanib	800 mg PO daily
Pembrolizumab	200 mg IV every 3 weeks <u>or</u> 400 mg IV every 6 weeks
Sunitinib	50 mg PO daily for 4 weeks on/2 weeks off <u>or</u> 2 weeks on/1 week off
Tivozanib ¹	1.34 mg PO daily on days 1 to 21 of a 28-day cycle

¹Not on MD Anderson formulary

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MD Anderson Institutional Policy #CLN1202 - Advance Care Planning Policy Advance Care Planning (ACP) Conversation Workflow (ATT1925)

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DEVELOPMENT CREDITS

This practice algorithm is based on majority expert opinion of the Genitourinary Center providers at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

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