

# Renal Cell Cancer and the General Medical Oncologist: Where We Are and Where We're Headed

## *Proceedings from a Clinical Investigator Think Tank*



### FACULTY

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# *Renal Cell Cancer and the General Medical Oncologist: Where We Are and Where We're Headed*

## A Continuing Medical Education Audio Program

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### OVERVIEW OF ACTIVITY

Renal cell carcinoma (RCC) is by far the most common primary tumor known to develop within the kidney and renal pelvis. Although RCC may present as diverse histologic subtypes, more than 85% of these are clear cell cancers. Historically, treatment of advanced clear cell RCC — resistant to conventional chemotherapeutics — had been limited to cytokine immunotherapy. Beginning in 2005, this paradigm shifted rapidly and dramatically, culminating in the FDA approval of 7 new therapeutic agents or regimens for advanced-stage disease. Thus, practicing oncologists must maintain current knowledge of the benefits and risks of the multiple acceptable treatment approaches. To bridge the gap between research and patient care, this program features a case-based roundtable discussion with leading investigators to assist medical oncologists, hematology-oncology fellows and other allied healthcare professionals involved in the treatment of RCC with the formulation of up-to-date clinical management strategies.

### LEARNING OBJECTIVES

- Identify patient characteristics that may help to distinguish the individualized utility of cytoreductive nephrectomy in the era of effective targeted therapies for metastatic RCC (mRCC).
- Recall criteria for identification of patients with asymptomatic mRCC who may be suitable for watchful waiting or treatment holidays, and apply these to therapeutic decision-making.
- Educate patients with mRCC about the safety and tolerability of multikinase VEGF tyrosine kinase inhibitors, mTOR inhibitors and VEGF monoclonal antibody therapy.
- Recommend supportive measures to enhance the tolerability of targeted therapeutic agents for RCC, including the use of dose reductions, schedule changes or alternative therapies.
- Apply the results of existing and emerging clinical research to the evidence-based selection of front-line and subsequent therapy for mRCC.
- Recall the scientific rationale for and efficacy of approved and novel investigational immunotherapeutic agents demonstrating activity in RCC.
- Counsel appropriately selected patients with RCC about the availability of ongoing clinical trial participation.

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## TRACKS 1-21

- Track 1 Case discussion:** A 63-year-old patient with clear cell metastatic renal cell carcinoma (mRCC) and an asymptomatic primary tumor
- Track 2** Local treatment considerations for clear cell mRCC
- Track 3** Systematic classification and prediction of complications after cytoreductive nephrectomy in patients with mRCC
- Track 4** Assessing rate of progression of residual disease after nephrectomy as a prognostic factor in mRCC
- Track 5** Identifying patients with mRCC who are suitable for observation
- Track 6** Reliability and limitations of Fuhrman grading in RCC
- Track 7** Selection of first-line therapy for patients with clear cell mRCC and an asymptomatic primary tumor
- Track 8** Treatment holidays in the management of asymptomatic mRCC
- Track 9** Sequencing and side-effect profiles of the VEGF tyrosine kinase inhibitors (TKIs) sunitinib and pazopanib for mRCC
- Track 10** Monitoring of liver function tests in patients receiving pazopanib
- Track 11** Dose reduction or titration of VEGF TKIs
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- Track 19** Risk-benefit analysis of sorafenib versus axitinib
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- Track 21** Approach to second-line treatment in patients who received first-line VEGF TKI therapy
- Track 22** Management of everolimus-associated mucositis and pulmonary toxicity
- Track 23** Ongoing clinical trials evaluating bevacizumab/bortezomib in mRCC
- Track 24** INTORSECT: Results of a Phase III trial of temsirolimus versus sorafenib for patients with mRCC for whom prior sunitinib therapy had failed
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- Track 26** Repeated responses to sequential VEGF-targeted therapies in mRCC
- Track 27 Case discussion:** A 57-year-old patient with clear cell RCC receives high-dose interleukin-2 (IL-2) after cytoreductive nephrectomy
- Track 28** Programmed death ligand 1/3 (PD-L1/PD-L3) tissue expression and response to treatment with IL-2 in RCC
- Track 29** Activity of immunotherapeutic agents in patients with RCC and brain metastasis

**Track 30 Case discussion:** A 63-year-old patient with underlying diabetes and a history of childhood sarcoma presents with multiple pancreatic metastases 9 years after nephrectomy for RCC and experiences major side effects on a series of treatments including sunitinib, everolimus and bevacizumab

**Track 31** Management of diabetes and hyperlipidemia in patients receiving everolimus

**Track 32 Case discussion:** A 75-year-old patient with lung, liver and soft-tissue metastases 4 years after a nephrectomy for clear cell RCC

**Track 33** Treatment selection for elderly or frail patients with mRCC

**Track 34** Use of high-dose IL-2 in elderly patients with mRCC

**Track 35** Results from the Phase III ARISER trial of the anti-G250 antibody girentuximab versus placebo as adjuvant therapy for high-risk clear cell RCC

**Track 36** Ongoing adjuvant targeted therapy trials in RCC

**Track 37** ASPEN: A Phase II trial of everolimus versus sunitinib in patients with nonclear cell mRCC

**Track 38 Case discussion:** A 52-year-old patient with nonclear cell mRCC who experiences objective responses to first- and second-line treatment

**Track 39** Investigation of anti-PD-1 and anti-PD-L1 antibodies in mRCC and other solid tumors

**Track 40** Rationale for the combination of high-dose IL-2 with checkpoint inhibitors for RCC

**Track 41 Case discussion:** A 64-year-old patient with clear cell RCC and sarcomatoid differentiation receives late-line cabozantinib therapy on a clinical trial

## Video Highlights of the Clinical Investigator Think Tank

The screenshot shows a webpage from Research To Practice. At the top, there are navigation links for Home, InfoSearch, Browse Tumor Type, Upcoming Events, About Us, and CME Test. Below this is a video player featuring David F. McDermott, MD. The video title is "Case: Patient with mRCC and asymptomatic primary". To the right of the video player, there are sections for "Local treatment for metastatic clear cell carcinoma (mRCC)", "Related videos" (with links to various clinical trial videos), and "OTHER TOPICS" (with links to topics like Immunotherapy, Biomarkers, and Adjuvant systemic treatment). Below the video player, there is a "NEXT VIDEO" link and a "TRANSCRIPT" section with text that is partially obscured but appears to discuss a patient's history and treatment.

Visit [www.ResearchToPractice.com/RCCUTT113/Video](http://www.ResearchToPractice.com/RCCUTT113/Video) to access a number of short video segments and corresponding transcripts from the Think Tank featuring the faculty discussing and debating some of the key clinical management and research issues in the field of renal cell cancer.

## SELECT PUBLICATIONS

**A randomized Phase II study of Afinitor (RAD001) vs Sutent (sunitinib) in patients with metastatic non-clear cell renal cell carcinoma (ASPEN). NCT01108445**

Angevin E et al. Phase I study of dovitinib (TKI258), an oral FGFR, VEGFR, and PDGFR inhibitor, in advanced or metastatic renal cell carcinoma. *Clin Cancer Res* 2013;19(5):1257-68.

**ATLAS: Adjuvant axitinib treatment of renal cancer: A randomized double-blind Phase 3 study of adjuvant axitinib vs placebo in subjects at high risk of recurrent RCC. NCT01599754**

Bailey AS et al. Pdl-1/pdl-3 (programmed death ligand-1/3) tissue expression and response to treatment with IL2 and antiangiogenic therapies. *Proc ASCO* 2013;Abstract 4521.

Beldegrun AS et al. ARISER: A randomized double blind phase III study to evaluate adjuvant cG250 treatment versus placebo in patients with high-risk ccRCC: Results and implications for adjuvant clinical trials. *Proc ASCO* 2013;Abstract 4507.

Blesius A et al. Are tyrosine kinase inhibitors still active in patients with metastatic renal cell carcinoma previously treated with a tyrosine kinase inhibitor and everolimus? Experience of 36 patients treated in France in the RECORD-1 trial. *Clin Genitourin Cancer* 2013;11(2):128-33.

Cho DC et al. Clinical activity, safety, and biomarkers of MPDL3280A, an engineered PD-L1 antibody in patients with metastatic renal cell carcinoma. *Proc ASCO* 2013;Abstract 4505.

Drake CG et al. Survival, safety, and response duration results of nivolumab (anti-PD-1; BMS-936558; ONO-4538) in a phase I trial in patients with previously treated metastatic renal cell carcinoma: Long-term patient follow-up. *Proc ASCO* 2013;Abstract 4514.

**EVEREST: EVERolimus for Renal cancer Ensuing Surgical Therapy, a Phase III study. NCT01120249**

Hutson TE et al. Axitinib versus sorafenib as first-line therapy in patients with metastatic renal cell carcinoma. Genitourinary Cancers Symposium 2013;Abstract LBA348.

Hutson T et al. Temezirolimus vs sorafenib as second line therapy in metastatic renal cell carcinoma: Results from the INTORSECT trial. *Proc ESMO* 2012;Abstract 918.

Kirkwood JM, Tarhini AA. Biomarkers of therapeutic response in melanoma and renal cell carcinoma: Potential inroads to improved immunotherapy. *J Clin Oncol* 2009;27(16):2583-5.

Motzer RJ et al. A phase III comparative study of nivolumab versus everolimus in patients with advanced or metastatic renal cell carcinoma previously treated with antiangiogenic therapy. *Proc ASCO* 2013;Abstract TPS4592.

Motzer RJ et al. Record-3: Phase II randomized trial comparing sequential first-line everolimus (EVE) and second-line sunitinib (SUN) versus first-line SUN and second-line EVE in patients with metastatic renal cell carcinoma. *Proc ASCO* 2013;Abstract 4504.

Pal SK et al. Impact of age on treatment trends and clinical outcome in patients with metastatic renal cell carcinoma. *J Geriatr Oncol* 2013;4(2):128-33.

Porta C et al. Efficacy and safety of everolimus in elderly patients with metastatic renal cell carcinoma: An exploratory analysis of the outcomes of elderly patients in the RECORD-1 trial. *Eur Urol* 2012;61(4):826-33.

Procopio G et al. Sorafenib tolerability in elderly patients with advanced renal cell carcinoma: Results from a large pooled analysis. *Br J Cancer* 2013;108(2):311-8.

**PROTECT: A randomized, double-blind, placebo-controlled Phase III study to evaluate the efficacy and safety of pazopanib as adjuvant therapy for subjects with localized or locally advanced RCC following nephrectomy. NCT01235962**

Sabatino M et al. Serum vascular endothelial growth factor and fibronectin predict clinical response to high-dose interleukin-2 therapy. *J Clin Oncol* 2009;27(16):2645-52.

Silberstein JL et al. Systematic classification and prediction of complications after nephrectomy in patients with metastatic renal cell carcinoma (RCC). *BJU Int* 2012;110(9):1276-82.

**SORCE: A Phase III randomised double-blind study comparing sorafenib with placebo in patients with resected primary renal cell carcinoma at high or intermediate risk of relapse. NCT00492258**

**Sunitinib Treatment of Renal Adjuvant Cancer (S-TRAC): A randomized double blind Phase 3 study of adjuvant sunitinib vs placebo in subjects at high risk of recurrent RCC. NCT00375674**

*Renal Cell Cancer and the General Medical Oncologist: Where We Are and Where We're Headed*

**QUESTIONS (PLEASE CIRCLE ANSWER):**

1. A retrospective analysis by Silberstein and colleagues evaluating patients with RCC who underwent cytoreductive nephrectomy at Memorial Sloan-Kettering Cancer Center (MSKCC) reported which of the following to be the factor most likely to lead to patients suffering a complication during the perioperative period?
  - a. Poor risk by MSKCC criteria
  - b. Lactate dehydrogenase level
  - c. Patient performance status
2. The ongoing S-TRAC trial is evaluating the efficacy and safety of \_\_\_\_\_ versus placebo for patients with localized RCC who are at high risk for disease recurrence.
  - a. Axitinib
  - b. Sorafenib
  - c. Sunitinib
  - d. All of the above
3. Results from the Phase II RECORD-3 trial, which compared sequential first-line everolimus and second-line sunitinib to the standard therapy of first-line sunitinib and second-line everolimus for patients with mRCC, indicated that the treatment paradigm in this setting should remain sunitinib followed by everolimus.
  - a. True
  - b. False
4. The Phase III INTORSECT trial of temsirolimus versus sorafenib for patients with mRCC for whom prior sunitinib therapy had failed reported a statistically significant progression-free survival advantage for temsirolimus compared to sorafenib.
  - a. True
  - b. False
5. A Phase III trial of axitinib versus sorafenib as first-line therapy for mRCC reported a 3.6-month improvement in median progression-free survival in favor of axitinib, but this improvement was not statistically significant.
  - a. True
  - b. False
6. The Phase II ASPEN trial is evaluating \_\_\_\_\_ versus sunitinib for patients with nonclear cell mRCC.
  - a. Everolimus
  - b. Temsirolimus
  - c. Both a and b
7. Results from a retrospective analysis of patients with mRCC treated on the single-arm IL-2 SELECT trial reported that \_\_\_\_\_ may predict better response to IL-2 therapy.
  - a. Clear cell histology
  - b. Nonclear cell histology
  - c. PD-L1/PD-L3 tissue expression
8. Which of the following metabolic abnormalities may be associated with the administration of everolimus?
  - a. Hyperglycemia
  - b. Hypercholesterolemia
  - c. Hypertriglyceridemia
  - d. All of the above
9. Although results from the Phase III ARISER trial of the anti-G250 antibody girentuximab versus placebo as adjuvant therapy for high-risk clear cell RCC were negative, a post hoc analysis suggested that patients with a higher carbonic anhydrase score fared better with regard to disease-free survival and overall survival than patients with a low carbonic anhydrase score.
  - a. True
  - b. False
10. The ongoing Phase III PROTECT study is evaluating pazopanib versus placebo as adjuvant treatment for localized RCC.
  - a. True
  - b. False



**EDUCATIONAL ASSESSMENT AND CREDIT FORM**

*Renal Cell Cancer and the General Medical Oncologist: Where We Are and Where We're Headed*

Research To Practice is committed to providing valuable continuing education for oncology clinicians, and your input is critical to helping us achieve this important goal. Please take the time to assess the activity you just completed, with the assurance that your answers and suggestions are strictly confidential.

**PART 1 — Please tell us about your experience with this educational activity**

**How would you characterize your level of knowledge on the following topics?**

4 = Excellent    3 = Good    2 = Adequate    1 = Suboptimal

	<b>BEFORE</b>	<b>AFTER</b>
Criteria for identification of patients with asymptomatic mRCC suitable for watchful waiting or treatment holidays	4 3 2 1	4 3 2 1
RECORD-3: Results of a Phase II trial comparing sequential first-line everolimus and second-line sunitinib to the opposite sequence for mRCC	4 3 2 1	4 3 2 1
Results from the Phase III ARISER trial of the anti-G250 antibody girentuximab versus placebo as adjuvant therapy for high-risk clear cell RCC	4 3 2 1	4 3 2 1
PD-L1/PD-L3 tissue expression as a potential predictor of response to IL-2 therapy	4 3 2 1	4 3 2 1
Results of a Phase III trial of axitinib versus sorafenib as first-line therapy for mRCC	4 3 2 1	4 3 2 1

**Was the activity evidence based, fair, balanced and free from commercial bias?**

Yes     No    If no, please explain: .....

**Please identify how you will change your practice as a result of completing this activity (select all that apply).**

- This activity validated my current practice
- Create/revise protocols, policies and/or procedures
- Change the management and/or treatment of my patients
- Other (please explain): .....

**If you intend to implement any changes in your practice, please provide 1 or more examples:**

.....  
 .....

**The content of this activity matched my current (or potential) scope of practice.**

Yes     No    If no, please explain: .....

**Please respond to the following learning objectives (LOs) by circling the appropriate selection:**

4 = Yes    3 = Will consider    2 = No    1 = Already doing    N/M = LO not met    N/A = Not applicable

**As a result of this activity, I will be able to:**

- Identify patient characteristics that may help to distinguish the individualized utility of cytoreductive nephrectomy in the era of effective targeted therapies for metastatic RCC (mRCC). . . . . 4 3 2 1 N/M N/A
- Recall criteria for identification of patients with asymptomatic mRCC who may be suitable for watchful waiting or treatment holidays, and apply these to therapeutic decision-making. . . . . 4 3 2 1 N/M N/A
- Educate patients with mRCC about the safety and tolerability of multikinase VEGF tyrosine kinase inhibitors, mTOR inhibitors and VEGF monoclonal antibody therapy. . . . . 4 3 2 1 N/M N/A
- Recommend supportive measures to enhance the tolerability of targeted therapeutic agents for RCC, including the use of dose reductions, schedule changes or alternative therapies. . . . . 4 3 2 1 N/M N/A
- Apply the results of existing and emerging clinical research to the evidence-based selection of front-line and subsequent therapy for mRCC. . . . . 4 3 2 1 N/M N/A
- Recall the scientific rationale for and efficacy of approved and novel investigational immunotherapeutic agents demonstrating activity in RCC. . . . . 4 3 2 1 N/M N/A
- Counsel appropriately selected patients with RCC about the availability of ongoing clinical trial participation. . . . . 4 3 2 1 N/M N/A

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Please describe any clinical situations that you find difficult to manage or resolve that you would like to see addressed in future educational activities:

Would you recommend this activity to a colleague?

Yes  No

If no, please explain:

Additional comments about this activity:

As part of our ongoing, continuous quality-improvement effort, we conduct postactivity follow-up surveys to assess the impact of our educational interventions on professional practice. Please indicate your willingness to participate in such a survey.

Yes, I am willing to participate in a follow-up survey.  
 No, I am not willing to participate in a follow-up survey.

**PART 2 — Please tell us about the faculty and moderator for this educational activity**

	4 = Excellent	3 = Good	2 = Adequate	1 = Suboptimal		
<b>Faculty</b>	<b>Knowledge of subject matter</b>			<b>Effectiveness as an educator</b>		
Robert A Figlin, MD	4	3	2	1	4 3 2 1	
Thomas E Hutson, DO, PharmD	4	3	2	1	4 3 2 1	
David F McDermott, MD	4	3	2	1	4 3 2 1	
Robert J Motzer, MD	4	3	2	1	4 3 2 1	
David I Quinn, MBBS, PhD	4	3	2	1	4 3 2 1	
Walter Stadler, MD	4	3	2	1	4 3 2 1	
<b>Moderator</b>	<b>Knowledge of subject matter</b>			<b>Effectiveness as an educator</b>		
Neil Love, MD	4	3	2	1	4 3 2 1	

Please recommend additional faculty for future activities:

Other comments about the faculty and moderator for this activity:

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# Renal Cell Cancer™

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