

Kidney Cancer: Patient-Centered Research and Patient Voices¹

PeerView Oncology



Full abbreviations, accreditation, and disclosure information available at PeerView.com/GHE40



KCCure's Research Helps Inform Providers of the Patient Voice

The Kidney Cancer Research
Alliance (KCCure) provides answers
to questions that patients and
caregivers are asking.

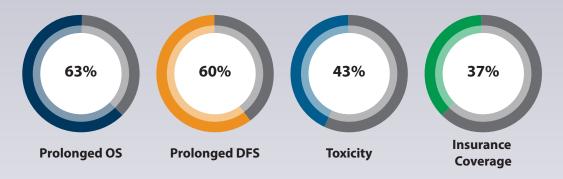
Wherever they are in their diagnosis, patients can visit

kccure.org

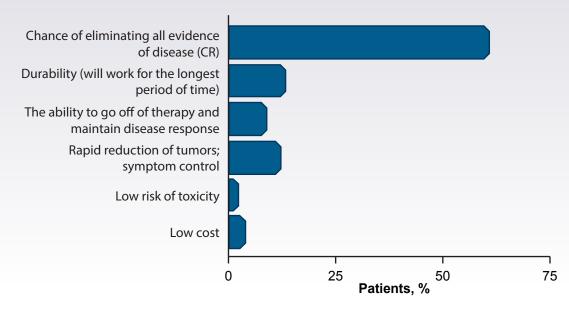
to find updated information on different types of kidney cancer, new treatment options, and more.

KCCure also conducts its own patient-centered research aimed at improving the quality of life of all patients with kidney cancer by better identifying and defining patients' needs and concerns.

Patients reported what they believed was the most important consideration in their treatment choice²



When patients were asked to state the most important desire or outcome they wanted from treatment, they overwhelmingly chose a complete response and were less focused on other items³





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Patient Voices

https://kccure.org/category/patient-stories

When faced with a new cancer diagnosis, patients experience grief, loss of control, and feelings of isolation according to KCCure's research. To help combat the emotional toll of cancer, the organization encourages patients to connect and share their stories with each other. These actions can help families affected by kidney cancer feel less alone, and they are an important component of survivorship.

Julia

"I find if you ask 3 doctors, you will get 4 different opinions. It definitely did not make things easier. It felt like too heavy a decision to make myself. The first time I based my decision on what most of the doctors were leaning toward. The second time, I decided based on the doctor whom I felt safest with. So in the end, it was a matter of trust."

Teresa

"I had a complete response with [an IO + TKI]. I stopped the [IO] but still take [the TKI]. My doctor has mentioned several times I could come off but I'm terrified to stop taking it."

Larry

"I was fighting for immunotherapy since I had mets from the kidney to lung and brain. But the only option I was given was [an IO + TKI]. Reading up on them I felt good about it, but I wasn't given any other choices."



KCCure provides patient perspectives on surgery, adjuvant therapy, treatment anxiety, and much more. Visit kccure.org to access patient support communities and other helpful resources.



Current Approvals and Future Directions in RCC Therapy

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IO + IO Combination Regimen

Nivolumab + Ipilimumab^{1,2}

Approved April 2018 for intermediate- or poor-risk disease based on the phase 3 CheckMate -214 trial NCCN³ category 1 for intermediate or poor risk (preferred); category 2A for favorable risk (other recommended regimen) Nivolumab 3 mg/kg followed by ipilimumab 1 mg/kg on the same day every 3 wk for 4 doses, then nivolumab 240 mg every 2 wk or 480 mg every 4 wk as a single agent

IO + VEGFR TKI Combination Regimens

Pembrolizumab + Axitinib^{4,5}

Approved April 2019 in all IMDC groups based on the phase 3 KEYNOTE-426 trial NCCN³ category 1 for intermediate or poor risk (preferred); category 2A for favorable risk (preferred) Pembrolizumab 200 mg every 3 wk or 400 mg every 6 wk in combination with axitinib 5 mg PO twice daily

Avelumab + Axitinib^{5,6}

Approved May 2019 in all IMDC groups based on the phase 3 JAVELIN Renal 101 trial NCCN³ category 2A for all risk groups (other recommended regimen)

Avelumab 800 mg every 2 wk in combination with axitinib 5 mg PO twice daily

Nivolumab + Cabozantinib^{1,7}

Approved January 2021 in all IMDC groups based on the phase 3 CheckMate -9ER trial NCCN³ category 1 for all risk groups (preferred) Nivolumab 240 mg every 2 wk or 480 mg every 4 wk in combination with cabozantinib 40 mg once daily without food

Pembrolizumab + Lenvatinib^{4,8}

Under priority review March 2021 based on the phase 3 CLEAR trial NCCN³ category 1 for all risk groups (preferred)

Pembrolizumab 200 mg IV every 3 wk in combination with lenvatinib 20 mg PO once daily⁹

Selected Phase 3 Trials in the First-Line Setting¹⁰

PDIGREE (NCT03793166)

Nivolumab + ipilimumab → nivolumab vs nivolumab + ipilimumab → nivolumab + cabozantinib

COSMIC-313 (NCT03937219)

Cabozantinib + nivolumab + ipilimumab vs placebo + nivolumab + ipilimumab

PIVOT-09 (NCT03729245)

NKTR-214 + nivolumab vs cabozantinib or sunitinib

NCT03873402

Nivolumab + ipilimumab vs nivolumab

IMmotion151 (NCT02420821)

Atezolizumab + bevacizumab vs sunitinib



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IO Regimen

Nivolumab1

Approved November 2015 in patients who have received prior anti-angiogenic therapy based on the phase 3 CheckMate -025 trial NCCN³ category 1 (preferred)

Nivolumab 240 mg every 2 wk or 480 mg every 4 wk

VEGFR TKI Regimens

Cabozantinib⁷

Approved April 2016 based on the phase 3 METEOR trial NCCN³ category 1 (preferred)

Lenvatinib + Everolimus^{8,11}

Approved May 2016 in patients with advanced RCC following one prior anti-angiogenic therapy based on the phase 2 HOPE 205 trial NCCN³ category 1 (other recommended regimen)

Tivozanib¹²

Approved March 2021 in patients with relapsed or refractory advanced RCC following >2 prior systemic therapies based on the phase 3 TIVO-3 trial NCCN³ category 2A (other recommended regimen)

Cabozantinib 60 mg PO once daily without food

Lenvatinib 18 mg PO once daily with everolimus 5 mg PO once daily; modify the recommended daily dose for certain patients with renal or hepatic impairment

Tivozanib 1.34 mg once daily with or without food for 21 d on treatment followed by 7 d off treatment (28-d cycle)

VEGFR TKI Regimen

Sunitinib¹³

Approved November 2017 in adult patients at high risk of recurrence following nephrectomy based on the phase 3 S-TRAC trial

NCCN³ category 2A (other recommended regimen)

Sunitinib 50 mg PO once daily with or without food, 4 wk on treatment followed by 2 wk off treatment for nine 6-wk cycles

Selected Phase 3 Trials in the Later-Line Setting¹⁰

CONTACT-03 (NCT04338269)

Atezolizumab + cabozantinib vs cabozantinib

NCT04195750

Belzutifan vs everolimus

NCT04586231

Belzutifan + lenvatinib vs cabozantinib

Selected Phase 3 Trials in the Adjuvant Setting¹⁰

KEYNOTE-564 (NCT03142334)

Pembrolizumab vs placebo

Primary endpoint met!¹⁴

CheckMate -914 (NCT03138512)

Nivolumab ± ipilimumab vs placebo

RAMPART (NCT03288532)

Durvalumab ± tremelimumab vs active surveillance

PROSPER RCC (NCT03055013)

Nivolumab + nephrectomy vs nephrectomy

IMmotion010 (NCT03024996)

Atezolizumab vs placebo

Adjuvant Setting

Pretreated Advanced Disease

1. Opdivo (nivolumab) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/125554s092lbl.pdf. 2. Yervoy (ipilimumab) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/125574s092lbl.pdf. 3. NCCN Clinical Practice Guidelines in Oncology. Kidney Cancer. Version 4.2021. https://www.nccessdata.fda.gov/drugsatfda_docs/label/2021/125514s097lbl.pdf. 5. Inlyta (axitinib) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/202324s011lbl.pdf. 6. Bavencio (avelumab) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/7620007610bl.pdf. 6. Bavencio (avelumab) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/2020/761949005lbl.pdf. 7. Cetobmetyx (abozantinib) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/20296947s018lb.pdf. 9. Motera Cetobacantinib) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/202334s047,203985s020lbl.pdf. 12. Fotivda (tivozanib) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/202334s047,203985s020lbl.pdf. 12. Fotivda (tivozanib) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/202334s047,203985s020lbl.pdf. 13. Sutent (sunitinib malate) Prescribing Information. https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/125554s0191.pdf. 14. Choueiri TK et al. 2021 American Society of Clinical Oncology Annual Meeting (ASCO 2021). Abstract LBA5.