

Role cytoredukční nefrektomie v éře imunoterapie

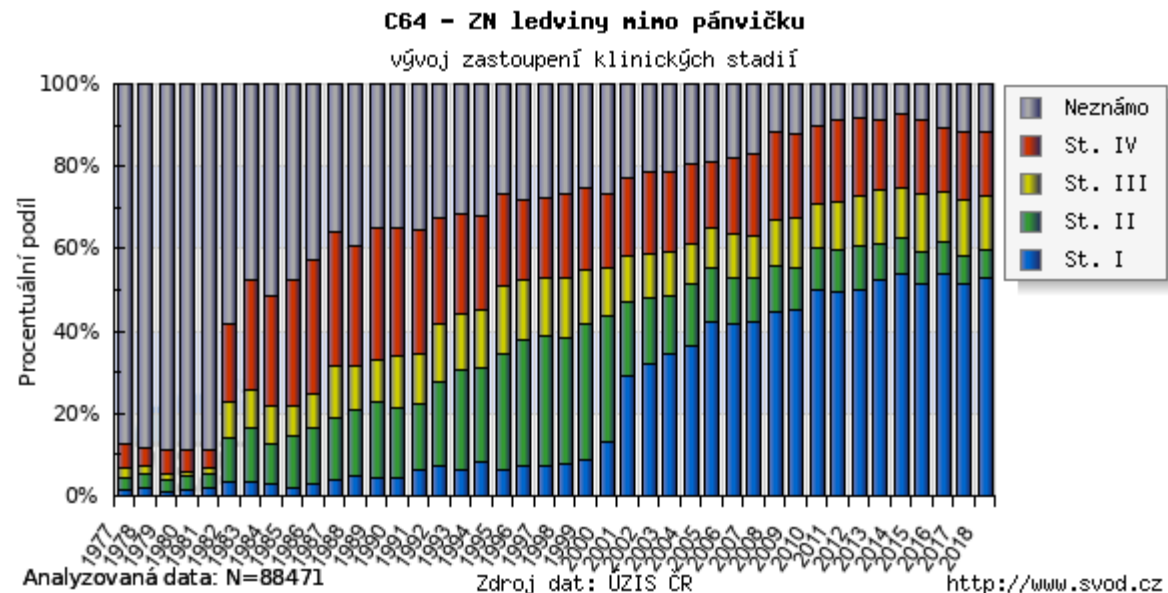


Vojtěch Fiala
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PragueOnco 2022

Renální karcinom - metastatický

- Ročně diagnostikováno kolem 3000 pac. s karcinomem ledviny
- 15,5% za rok 2018 ($\approx 16\%$)



Změna přístupu

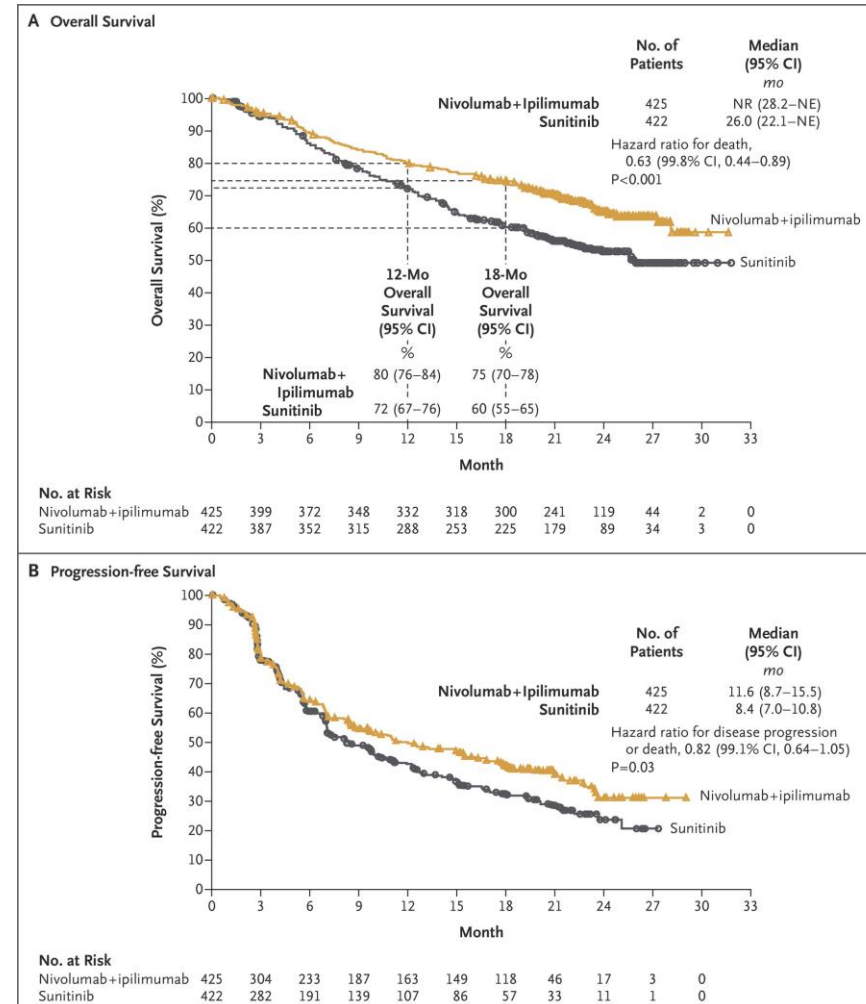
- Studie CARMENA (Méjean et al., 2018) – „samotný Sunitinib není inferiorní v porovnání s nefrektomií a následně podávanému Sunitinibu“
 - Update 2021
- Studie SURTIME (Bex et al., 2019)

Změna přístupu – EAU Guidelines

Recommendations	Strength rating
Do not perform cytoreductive nephrectomy (CN) in MSKCC poor-risk patients.	Strong
Do not perform immediate CN in intermediate-risk patients who have an asymptomatic synchronous primary tumour and require systemic therapy.	Weak
Start systemic therapy without CN in intermediate-risk patients who have an asymptomatic synchronous primary tumour and require systemic therapy.	Weak
Discuss delayed CN with patients who derive clinical benefit from systemic therapy.	Weak
Perform immediate CN in patients with a good performance status who do not require systemic therapy.	Weak
Perform immediate CN in patients with oligometastases when complete local treatment of the metastases can be achieved.	Weak

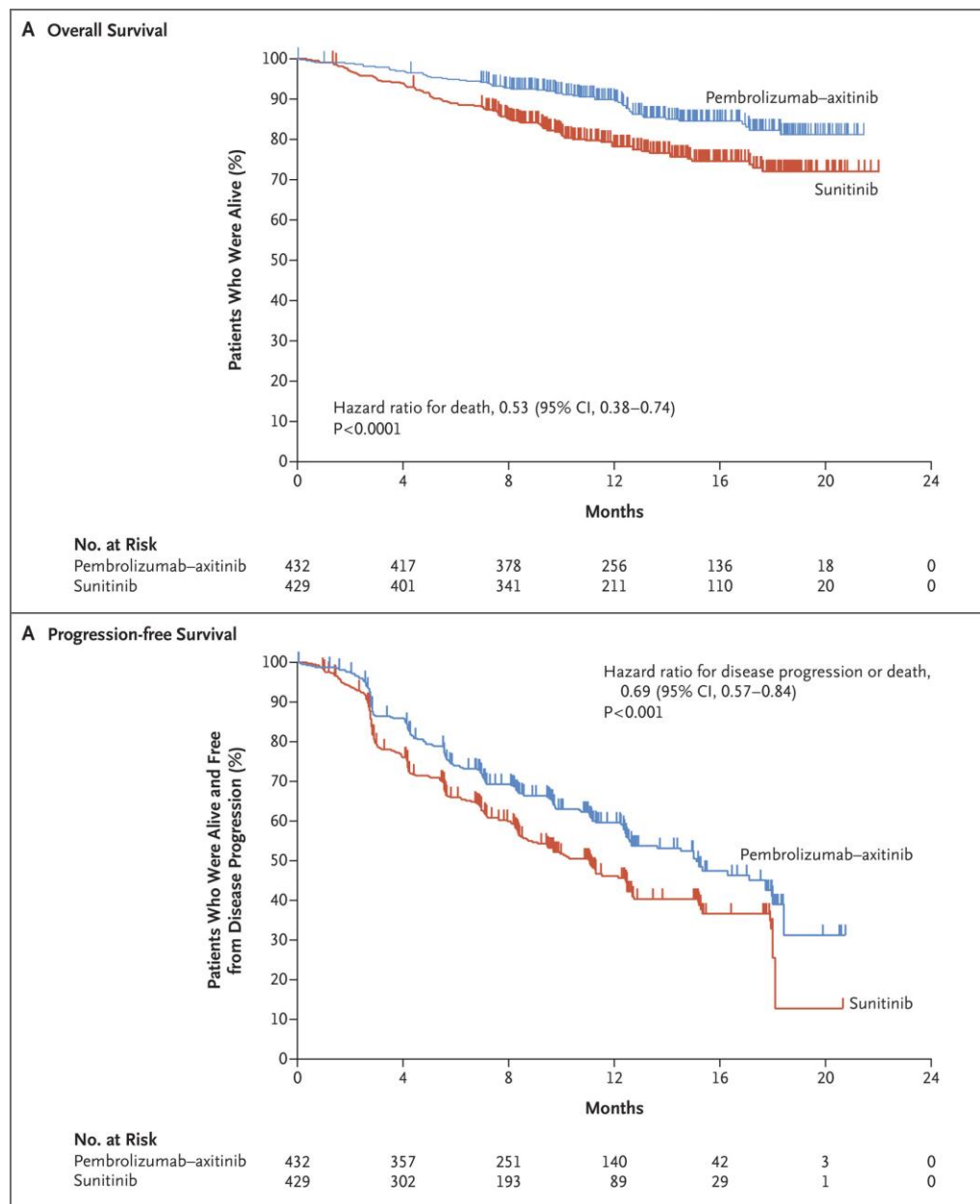
Checkmate 214

- Motzer RJ, Tannir NM, McDermott DF, et al. Nivolumab plus Ipilimumab versus Sunitinib in Advanced Renal-Cell Carcinoma. N Engl J Med. 2018



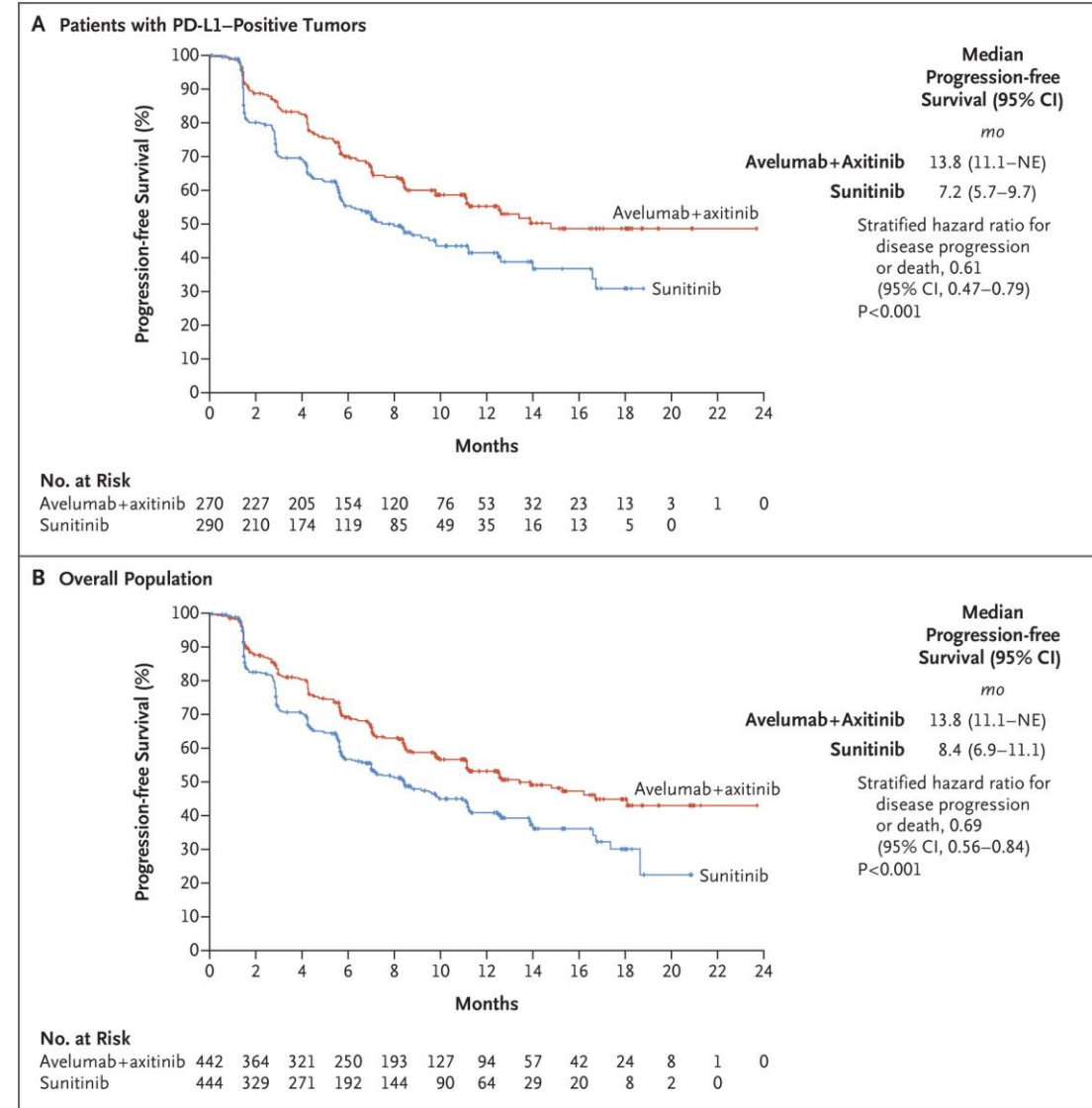
Keynote 426

- Rini BI, Plimack ER, Stus V, et al. Pembrolizumab plus Axitinib versus Sunitinib for Advanced Renal-Cell Carcinoma. N Engl J Med. 2019
- Pembro +Axitinib vs. Sunitinib



Javelin 101

- Motzer RJ, Penkov K, Haanen J, et al. Avelumab plus Axitinib versus Sunitinib for Advanced Renal-Cell Carcinoma. N Engl J Med. 2019
- Avelumab +Axitinib vs. Sunitinib



EAU guidelines 2021

	Standard of Care	Alternative in patients who can not receive or tolerate immune checkpoint inhibitors
IMDC favourable risk	nivolumab/cabozantinib [1b] pembrolizumab/axitinib [1b] pembrolizumab/lenvatinib [1b]	sunitinib* [1b] pazopanib* [1b]
IMDC intermediate and poor risk	nivolumab/cabozantinib [1b] pembrolizumab/axitinib [1b] pembrolizumab/lenvatinib [1b] nivolumab/ipilimumab [1b]	cabozantinib* [2a] sunitinib* [1b] pazopanib* [1b]

Morbidity of cytoreductive nephrectomy



VŠEOBECNÁ FAKULTNÍ
NEMOCNICE V PRAZE



1. LÉKAŘSKÁ
FAKULTA
Univerzita Karlova

IMDC

- Risk group stratification

Risk factors**	Cut-off point used
Karnofsky performance status	< 80%
Time from diagnosis to treatment	< 12 months
Haemoglobin	< Lower limit of laboratory reference range
Corrected serum calcium	> 10.0 mg/dL (2.4 mmol/L)
Absolute neutrophil count (neutrophilia)	> upper limit of normal
Platelets (thrombocytosis)	> upper limit of normal

~~0 factors: favourable risk disease~~

1–2 factors: intermediate-risk disease

3–6 factors: poor-risk disease

Mortality and Morbidity After Cytoreductive Nephrectomy for Metastatic Renal Cell Carcinoma: A Population-Based Study

2011

Firas Abdollah, MD^{1,2}, Maxine Sun, BSc¹, Rodolphe Thuret, MD^{1,3}, Jan Schmitges, MD^{1,4},
Shahrokh F. Shariat, MD⁵, Paul Perrotte, MD^{1,6}, Francesco Montorsi, MD², and Pierre I. Karakiewicz, MD^{1,6}

Complication	Overall (n = 17,688) (100.0%)	CNT (n = 1063) (6.0%)	NT (n = 16,625) (94.0%)	P value
In-hospital mortality	180 (1.0)	25 (2.4)	155 (0.9)	<0.001
In-hospital complications ^a	3430 (19.4)	282 (26.5)	3148 (18.9)	<0.001
Cardiac complications	406 (2.3)	42 (4.0)	364 (2.2)	<0.001
Respiratory complications (excluding pneumothorax)	510 (2.9)	36 (3.4)	474 (2.9)	0.3
Pneumothorax	315 (1.8)	29 (2.7)	286 (1.7)	0.01
Vascular complications	182 (1.0)	35 (3.3)	147 (0.9)	<0.001
Digestive system complications	1086 (6.1)	57 (5.4)	1029 (6.2)	0.2
Urinary complications	335 (1.9)	18 (1.7)	317 (1.9)	0.6
Accidental puncture or laceration during a procedure	726 (4.1)	71 (6.7)	655 (3.9)	<0.001
Hemorrhage/hematomas	496 (2.8)	56 (5.3)	440 (2.6)	<0.001
Seromas	13 (0.1)	2 (0.2)	11 (0.1)	0.1
Operative wound complications	22 (0.1)	4 (0.4)	18 (0.1)	0.01
Postoperative infections	101 (0.6)	6 (0.6)	95 (0.6)	0.9
Transfusion	2104 (11.9)	258 (24.3)	1846 (11.1)	<0.001

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Morbidity and Mortality of Radical Nephrectomy for Patients With Disseminated Cancer: An Analysis of the National Surgical Quality Improvement Program Database

2016

Christopher J. D. Wallis, Georg Bjarnason, James Byrne, Douglas C. Cheung, Azik Hoffman, Girish S. Kulkarni, Avery B. Nathens, Robert K. Nam, and Raj Satkunasivam

	Nondisseminated n = 7143	Disseminated n = 657	Fisher's exact P Value
Major complication (n, %)	229 (3.2)	48 (7.3)	<.0001
Mortality	38 (0.5)	21 (3.2)	<.0001
Reoperation	148 (2.1)	26 (4.0)	.004
Cardiac complication	66 (0.9)	11 (1.7)	.09
Neurologic complication	14 (0.2)	2 (0.3)	.64
Pulmonary complication (n, %)	137 (1.9)	28 (4.3)	.0003
Infectious complication (n, %)	417 (5.8)	61 (9.3)	.0009
Sepsis	157 (2.2)	29 (4.4)	.001
Pneumonia	104 (1.5)	22 (3.4)	.0009
Urinary tract infection	105 (1.5)	9 (1.4)	.99
Surgical site infection (SSI)	135 (1.9)	18 (2.7)	.14
Organ space SSI	27 (0.4)	8 (1.2)	.007
Deep incisional SSI	17 (0.2)	2 (0.3)	.67
Superficial SSI	95 (1.3)	9 (1.4)	.86
Venous thromboembolism (n, %)	83 (1.2)	18 (2.7)	.002
Deep vein thrombosis	50 (0.7)	9 (1.4)	.09
Pulmonary embolism	42 (0.6)	10 (1.5)	.01
Bleeding requiring transfusion (n, %)	953 (13.3)	202 (30.8)	<.0001
Prolonged length of stay (n, %)	2260 (31.6)	295 (44.9)	<.0001

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„Nefrektomie při generalizovaném onemocnění je spojena s významně vyšší morbiditou i mortalitou“

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Cytoreductive Nephrectomy in Patients with Synchronous Metastases from Renal Cell Carcinoma: Results from the International Metastatic Renal Cell Carcinoma Database Consortium

2014

Daniel Y.C. Heng^{a,*†}, J. Connor Wells^{a,†}, Brian I. Rini^b, Benoit Beuselinck^c, Jae-Lyun Lee^d, Jennifer J. Knox^e, Georg A. Bjarnason^f, Sumanta Kumar Pal^g, Christian K. Kollmannsberger^h, Takeshi Yuasaⁱ, Sandy Srinivas^j, Frede Donskov^k, Aristotelis Bamias^l, Lori A. Wood^m, D. Scott Ernstⁿ, Neeraj Agarwal^o, Ulka N. Vaishampayan^p, Sun Young Rha^q, Jenny J. Kim^r, Toni K. Choueiri^s

^aTom Baker Cancer Center, Calgary, Alberta, Canada; ^bCleveland Clinic Taussig Cancer Institute, Cleveland, OH, USA; ^cUniversity Hospitals Leuven, Leuven, Belgium; ^dAsan Medical Center, Seoul, South Korea; ^ePrincess Margaret Cancer Centre, Toronto, Ontario, Canada; ^fSunnybrook Odette Cancer Centre, Toronto, Ontario, Canada; ^gCity of Hope Comprehensive Cancer Center, Duarte, CA, USA; ^hBCCA Vancouver Cancer Centre, Vancouver, British Columbia, Canada; ⁱCancer Institute Hospital of Japanese Foundation for Cancer Research, Tokyo, Japan; ^jStanford Medical Center, Stanford, CA, USA; ^kAarhus University Hospital, Aarhus, Denmark; ^lDepartment of Clinical Therapeutics, National & Kapodistrian University, Athens, Greece; ^mQueen Elizabeth II Health Sciences Centre, Halifax, Nova Scotia, Canada; ⁿLondon Regional Cancer Centre, London, Ontario, Canada; ^oUniversity of Utah Huntsman Cancer Institute, Salt Lake City, UT, USA; ^pKarmanos Cancer Institute, Detroit, MI, USA; ^qYonsei University College of Medicine, Seoul, South Korea; ^rSidney Kimmel Comprehensive Cancer Center at Johns Hopkins University, Baltimore, MD, USA; ^sDana-Farber Cancer Institute, Boston, MA, USA

„Pacienti s předpokládanou délkou přežití < 12 měsíců nebo s 4 a více IMDC prognostickými faktory neprofitují z CN.“

Závěr

- Pacient se špatnou prognózou neindikovat k CN
- U středního rizika výkon odložit dle efektu léčby
- V případě symptomatického tumoru individualizovaný přístup

- Indikace by měla vycházet z multidisciplinárních týmů