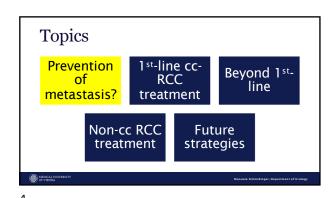
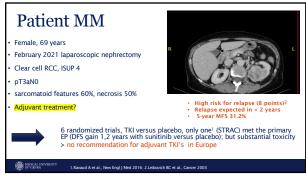


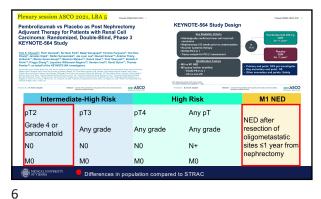
Disclosures Honoraria for lectures or advisory boards from • Pfizer, Ipsen, Exelixis, EUSA, EISAI, Roche, BMS, MSD, Merck, Alkermes

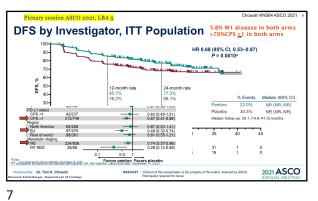
2

Topics Prevention 1st-line cc-RCC Beyond 1stof line metastasis? treatment Non-cc RCC **Future** treatment strategies 3









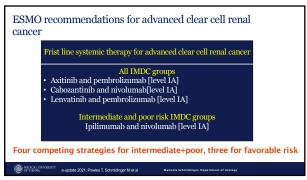
Interim OS Results, ITT Population IMvigor 010° : Rate of ctDNA clearance at week 6: higher in the atezolizumab arm (18%) than in the observation arm (4%) (P=0.0204) SAFETY versus Sunitinib in STRAC Grade 3-4 AE's: 18.9% versus 60.45% No treatment related deaths it: for whom? nlike in UC (37%), cDNA detection rate is low in In RCC: accuracy of test to detect cfDNA needs to be improved

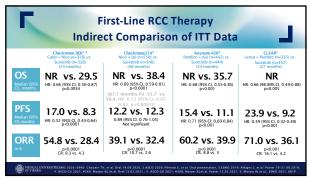
8

When? Neoadjuvant > Adjuvant? · Various neoadiuvant trials with IO (monotherapy or in combination) ongoing; • Neoadjuvant approach more appealing than adjuvant? Higher antigen load to trigger a clinically relevant immune response • Neoadjuvant anti-PD-1 > longer OS than adjuvant anti-PD-1 (A) Long term survival needs combination approaches (B)

Topics Prevention 1st-line cc-Beyond 1stof **RCC** line metastasis? treatment Future Non-cc RCC treatment strategies

9 10





11 12

	Nivo+Ipi 550 ITT/425 IP	Axi+Pembro	Nivo+Cabo	LenPem
Favorable %	23	31.9	23	31
Intermediate %	61	55.1	58	59.2
Poor %	17	13	19	9.3
Nephrectomy %	82	82.6	<mark>69</mark>	73.8
Sarcomatoid %	14 (IP-pop)	17.9	10.5	7.9

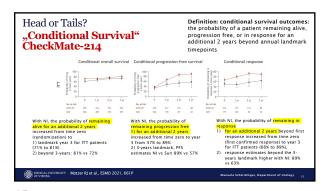
What can drive the treatment decision (1)

Do we need a fast response or a long term response?

Head or tails?

WHATE CONTROL OF THE ACT PRODUCTION OF THE P

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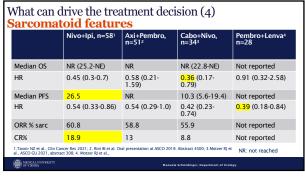


What can drive the treatment decision (2) · Likelihood of response, complete response and response duration · or likelihood of progression? 30.6 ORR % 60.2 CR% 10.4 8.8 DoR NR (45.8-NE) 23.5 (1.4-34.5) 20.2 (17.3-NE) 25.8 (22.1-27.9) 17.6 11.3 **@**#

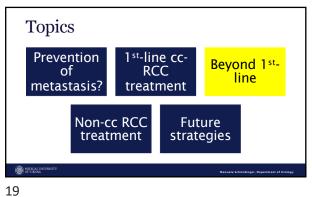
16

15

HRQoL Summary of Randomized Phase 3 First-Line							
Combination Studies in cc Renal Cell Carcinoma							
	CHECKMATE- 2141	KEYNOTE-426 ²	CHECKMATE-9ER3	CLEAR ⁴ N=1069			
	N=847	N=861	N=651				
HRQoL Tools	Nivolumab vs. + Sunitinib Ipilimumab	Axitinib + vs. Pembrolizumab Sunitinib	Cabozantini vs. b+ Suntinib Nivolumab	Lenvatinib + vs. Pembrolizumab Sunitinib	Lenvatinib vs. + Sunitinib Everolimus		
	Intermediate and Pour Real City	All Role Groups	Alf Roa Groups	Al Risk Gr	NES .		
FKSI-19	~		~				
FKSI- DRS		=		=	=		
EORTC QLQ-C30		=		=	=		
FACT-G	1						
EQ-5D-3L	1	=	~	=	=		

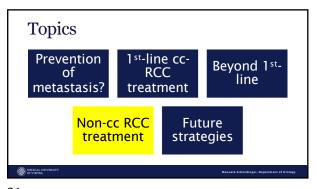


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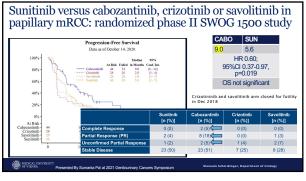
ESMO Algorithm second-line¹ • "A VEGFR systemic therapy that has not been given previously" • (axitinib, cabozantinib, lenvatinib+everolimus, pazopanib, sunitinib, tivozanib) · All IIIB recommendations • Some are likely to become more important than others (if not used in 1st-line and if confirmed in larger trials): • Cabozantinib²: post IO: PR 43%, PFS 9.3 months • Lenvatinib+pembrolizumab³: post IO: PR 55.8%, PFS 11.1 months

20

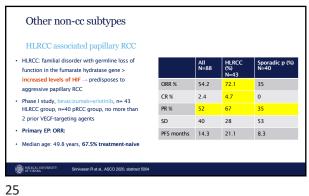


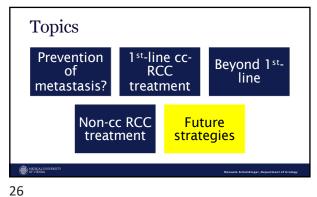
ESMO recommendations for advanced papillary renal cancer Preferred option Cabozantinib [level IIB] Cabozantinib Sunitinib [level IVC] Everolimus [level IVC] Pembrolizumab Savolitinib in MET altered tumors[level IVC] Sunitinib [level IVC] Alternative option Sunitinib [level IIB] Pembrolizumab [level IIIB] Savolitinib in MET altered tumor

21 22



Other non-cc subtypes Unclassified or translocation Collecting Duct¹ associated and Chromophobe² • BONSAI: Phase II trial, cabozantinib in • Cabo+Nivo in unclassified (cohort 1) treatment naive CDC patients and chromophobe (cohort 2) Primary EP: ORR · Single center oben label phase II • N=25, median follow up 8 months N= 40 cohort 1 and 7 cohort 2 • ORR 35% including 1 CR, SD 26% • ORR and PFS cohort 1: 47.5% (31.5, · Median PFS 6 months 63.9); 12.5 (6.3-15.9) months • ORR cohort 2: 0





Future strategies (1) New agents: Belzutifan Microbiome manipulation Potent, selective HIF-2a inhibitor Open label randomized phase IB study comparing nivo+ipi+CBM-588 versus nivo+ipi alone⁴ 90% of clear cell RCC patients have defective VHL function, leading to activation of HIF-2 $\!\underline{\alpha}$ Belzutifan may become a second-line strategy either alone¹ (ORR 25%, PFS 14.5 months in heavily pretreted patients) or in combination with cabozantinib² FDA approval for VHL disease associated clear cell RCC (phase II study)³ (ORR 49% and 56% maintained a response lasting at least 12 months; ORR in pNETs 83% (95% CI, 52%-98%), CNS hemangioblastoma 63% ---Tree, works ORR 58% vs 20% PFS 55 vs 10.7 weeks P<0.001 MEIXCALUNIVERSITY

1. Bauer T et al., ASCO GU 2021; 2.Choueiri TK et al., ASCO GU 2
ClinicalTrials.gov Identifier: NCT03401788; 4.Meza LA et al., A

Future Strategies (2) moving toward personalized medicine? • Integrated multi-omics analyses (RNA sequencing (RNA-seq) and targeted somatic variant analysis: 7 molecular subtypes in 823 tumors of patients from Immotion 151: association of transcriptomic clusters and outcome to atezo+bev or sun

27 28

Future Strategies (2) Identifying medicine that has not been on our radar yet CDKN2A/loss and/or TP53 mutations: pwak 0.03 HR: 0.03 (0.41)0.90 peat 0.08 HR: 0.07 (0.40;1.00) UNIX_AIMOSS anumor root and analysis overall worse prognosis benefit from therapeutic approaches that target these specific abberations such as stroma disruptors [telmisartan], cytotoxic agents or CDX46 inhibitors (palbociciti, ribociciti) which arrest tumor cycle and trigger antitumor immunity LOF in ARID1A and KMT2C:

improved PFS with atezobev versus sun
these alterations implicated in epigenetic dysregulation and DNA
repair deficiency >combining epigenetic regulators with CPI7

Take Home Messages Pembrolizumab demonstrates improved DFS versus placebo in high risk localized RCC and in M1 resected patients: · Patient selection? Neoadiuvant and combination better? 4 first-line strategies in clear cell mRCC: tumor and disease characteristics drive the treatment choice; active microbiome manipulation may become a standard of care For VHL-syndrome associated RCC: belzutifan $\label{eq:cc} \begin{picture}(100,00) \put(0,0){\line(0,0){100}} \put(0,0){\lin$ Second-line: "what has not been given before"-recommendations (IIIB); cabo and pembro+lenva promising . Non clear cell: cabozantinib is the new SoC in papillary RCC based (SWOG1500 study); erlotinib-bevacizumab: unprecedented ORR and PFS data in HLRCC-associated papillary RCC; chromophobe appears not to benefit from L Genomics of 823 RCC tumors revealed 7 subtypes associated with different outcomes to VEGF blockade alone or in combination with anti-PD-L13 > We may eventually offer personalized treatment in mRCC

29 30