





**Best of ASCO 2019:
Lung and Genitourinary Cancers**

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**2019 Best of ASCO:
Genitourinary Cancers**

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Disclosures

- *Research Funding:* Merck, GeneCentric, Bristol-Myers Squibb, X4 Pharmaceuticals


2019 in GU Cancers

- Kidney Cancer
 - First-line IO/VEGF combinations
 - “Adjuvant” pazopanib after metastasectomy
- Bladder Cancer
 - Post-platinum, post-checkpoint options
- Prostate Cancer
 - The explosion of options for hormone sensitive metastatic prostate cancer
 - M0 CRPC



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KEYNOTE-426 Study Design

Key Eligibility Criteria

- Newly diagnosed or recurrent stage IV clear-cell RCC
- No previous systemic treatment for advanced disease
- Karnofsky performance status ≥ 70
- Measurable disease per RECIST v1.1
- Provision of a tumor sample for biomarker assessment
- Adequate organ function

Stratification Factors

- IMDC risk group (favorable vs intermediate vs poor)
- Geographic region (North America vs Western Europe vs ROW)

R (1:1)

N = 432

N = 429*

Pembrolizumab 200 mg IV Q3W for up to 35 cycles
+
Axitinib 5 mg orally twice daily*

Sunitinib 50 mg orally once daily for first 4 wks of each 6-wk cycle*


End Points

- **Dual primary:** OS and PFS (RECIST v1.1, BICR) in ITT
- **Key secondary:** ORR (RECIST v1.1, BICR) in ITT
- **Other secondary:** DOR (RECIST v1.1), PROs, safety

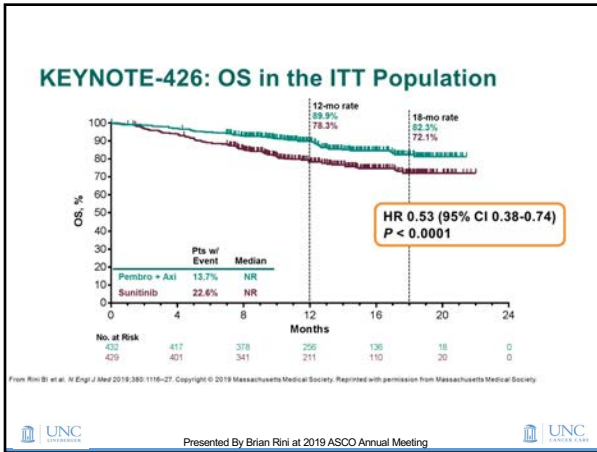
*Pembrolizumab dose could be increased to 7 mg, then 10 mg, twice daily if safety criteria were met; dose could be reduced to 3 mg, then 2 mg, twice daily to manage toxicity. Sunitinib dose could be decreased to 37.5 mg, then 35 mg, once daily for the first 4 wks of each 6-wk cycle to manage toxicity.

BICR: blinded independent central adjudication; CRP: duration of response; PROs: patient-reported outcomes; RECIST, rest of world.

KEYNOTE-426 is a randomized, open-label, phase 3 study (ClinicalTrials.gov identifier: NCT02883331).



Presented By Brian Rini at 2019 ASCO Annual Meeting

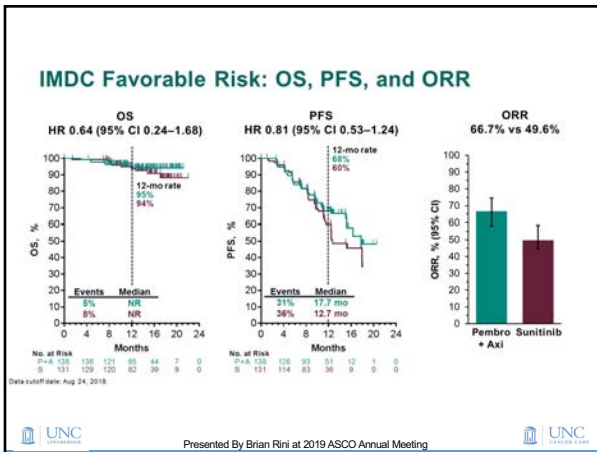


Pembrolizumab plus Axitinib for mRCC

- Other key findings from KEYNOTE-426¹
 - PFS: HR 0.69 (P < 0.001)
 - ORR: 59.3% vs 35.7% (P < 0.001)
 - Benefit observed across subgroups, including the IMDC favorable, intermediate, and poor risk groups and in PD-L1-expressing and non-expressing tumors
 - Manageable safety profile
- Combination of pembrolizumab and axitinib approved by the FDA for first-line treatment of advanced RCC

Rini BI et al. N Engl J Med 2019;380:1116-27.

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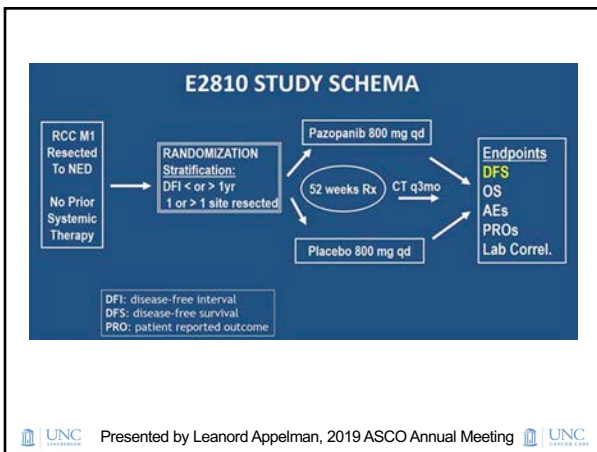


So which 1L treatment to pick?

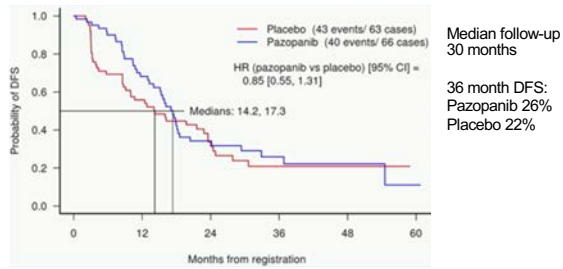
	Pembrolizumab + Axitinib vs Sunitinib	Avelumab + Axitinib vs Sunitinib	Ipilimumab + Nivolumab vs Sunitinib
IMDC risk group			
Favorable	31.2%	21.4%	23%
Intermediate	56.2%	61.8%	61%
Poor	12.6%	16.2%	17%
PDL1 "positive"	60.5%	63.2%	63.2%
Overall survival			
HR for death	0.53	0.78	0.68
P value	<0.0001	0.14	<0.001
Median PFS (mo)			
Combo therapy	15.1	13.8	12.4
Sunitinib	11.1	8.4	12.3
ORR (%)	59.3%	51.4%	39.0%
CR (%)	5.8%	3.4%	10.2%
Median f/u (mo)	12.8	11.6	25.2

Adapted from Escudier, NEJM 380;12 March 21, 2019

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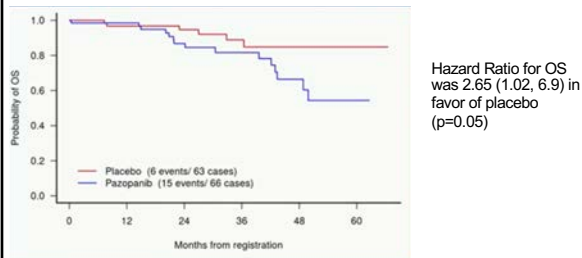


Pazopanib did not improve disease-free survival



Presented by Leonord Appelman, 2019 ASCO Annual Meeting

Overall survival by blinded treatment arm

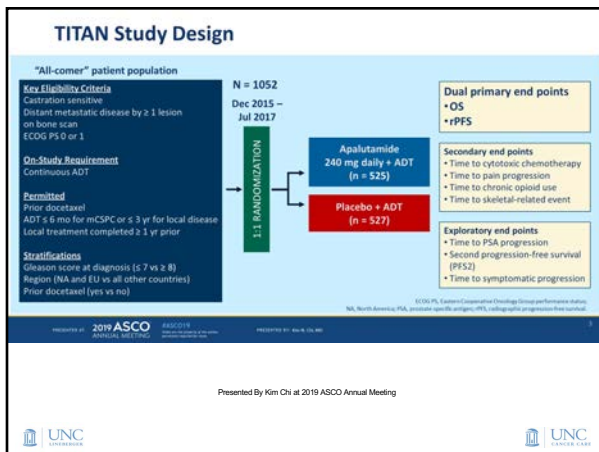
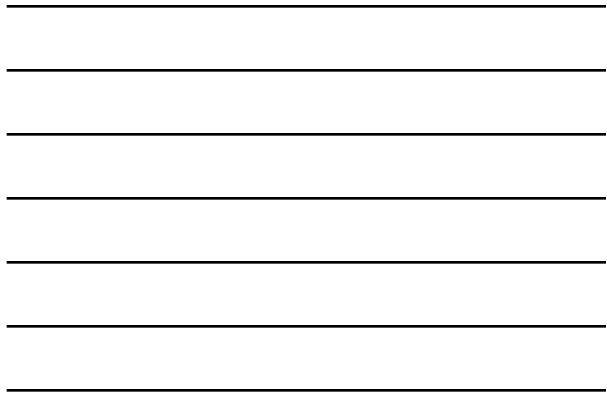
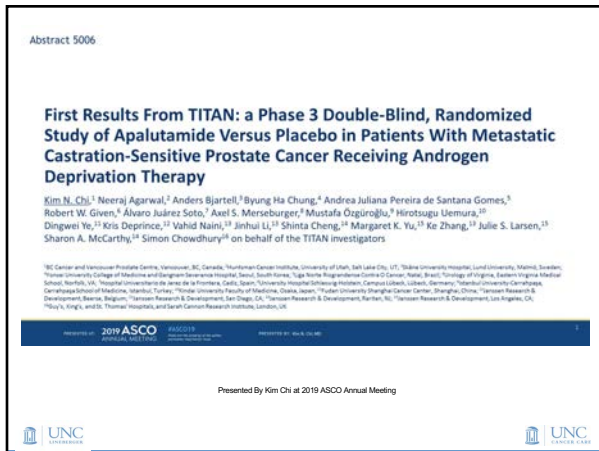
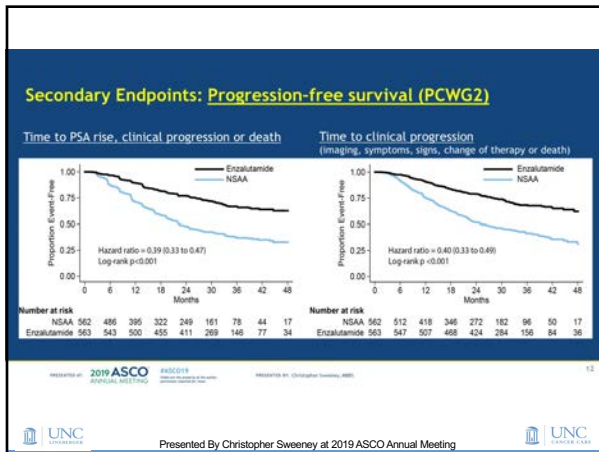


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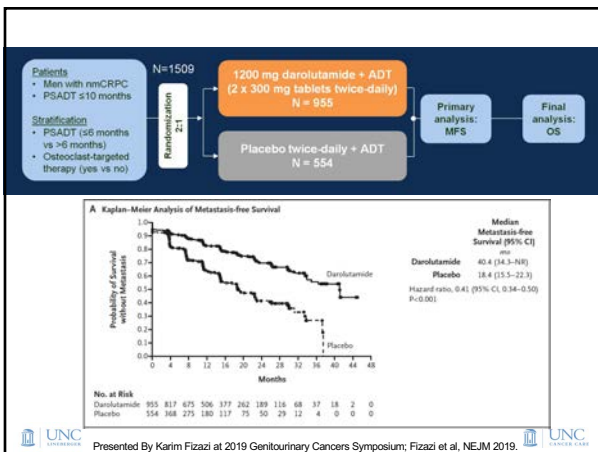
ARAMIS: Darolutamide in non-metastatic castration-resistant prostate cancer

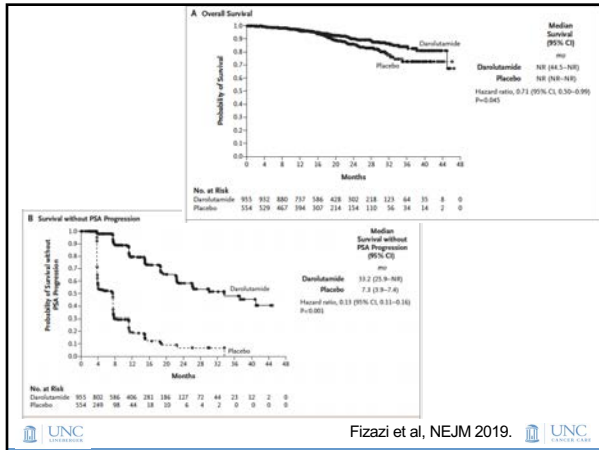
- Androgen receptor inhibitor
- Structurally distinct from enza/apalutamide – less CNS toxicity since doesn’t cross BBB and fewer drug interactions (not a CYP-inhibitor)
- Taken with food



Presented By Karim Fizazi at 2019 Genitourinary Cancers Symposium







What to use in M0 CRPC?

	SPARTAN (apalutamide)	PROSPER (enzalutamide)	ARAMIS (darolutamide)
Median pre-trial PSA DT, mos	4.4	3.8	4.4
Metastasis free survival, mos	40.5 HR 0.28 (0.23-0.35)	36.6 HR 0.29 (0.24-0.35)	40.4 HR 0.41 (0.34-0.50)
Time to PSA progression, mos	NR HR 0.06 (0.05-0.08)	37.2 HR 0.07 (0.05-0.08)	33.2 HR 0.13 (0.11-0.16)
Overall survival	HR 0.70 (0.47-1.04)	HR 0.80 (0.58-1.09)	HR 0.71 (0.50-0.99)
Discontinuation rate for AE	11%	9%	9%
Grade >=3% AE	45% vs 34%	31% vs 23%	25% vs 20%

Note: Men with PSA DT of >10 months excluded from all these trials

SPARTAN, Smith et al, NEJM 2018
PROSPER, Hussain et al, NEJM 2018
ARAMIS, 2019 GU Cancers Symposium

LUNG CANCER INITIATIVE
of North Carolina
A NETWORK OF HOPE AND ACTION

Best of ASCO Thoracic 2019, For UNCCN

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Board Member, LCI
VP, Cancergrace

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