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Cancer Center

Adjuvant Sunitinib for high risk RCC: Not Ready for Prime Time

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Background

- 15-20% of RCC patients present with high risk locoregional disease (stage III)
- 5 year OS for Stage III is ~50-60%
- Anti VEGF TKIs, including sunitinib, have proven OS benefit in metastatic disease
- Two large randomized phase III studies of adjuvant TKI therapy enrolling a total of 1909 patients have been completed

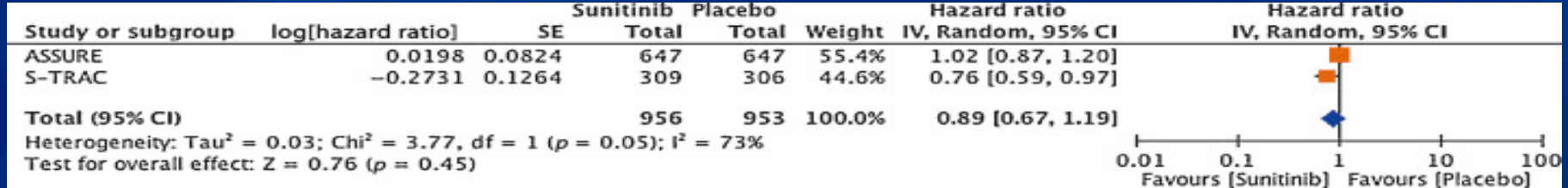
Dataset

- ASSURE (E-2805)
 - N=1943
 - Patients with high grade RCC, $\geq T1b$, non metastatic, post nephrectomy, cc or non-cc
 - 100% UISS intermediate high or very high
 - Randomized 1:1:1 to sunitinib, sorafenib, or placebo
- S-TRAC
 - N= 615
 - High risk RCC (stage III) ccRCC, post nephrectomy
 - 1:1 sunitinib versus placebo
- Primary Endpoint of both studies = PFS
 - ASSURE investigator assessed
 - S-TRAC central review

Results

	ASSURE		S-TRAC	
	Sunitinib	Placebo	Sunitinib	Placebo
N (ITT)	647	647	309	306
DFS	5.8 yrs	6.6 yrs	6.8 yrs	5.6 yrs
5yr DFS	54.3%	59.3%	59.3%	51.3%
HR	1.02 (97.5% CI 0.85-1.23)		0.76 (95% CI 0.59-0.98)	
P value	0.8038		0.03	
5yr OS	77.9%	80.3%	79.3%	79.1%
HR	1.17 (97.5% CI 0.90-1.52)		1.01 (95% CI 0.72-1.44)	
P value	0.1762		0.94	

Meta Analysis



- Toxicity
 - Grade 3-4 toxicity 60.5-62%
 - 4 Sunitinib related deaths
 - Inferior QoL on sunitinib
- Investigator assessed DFS on S-TRAC
 - HR 0.81 (95% CI 0.64-1.02; $p=0.08$)
- Only 30% of ASSURE patients would have qualified for S-TRAC

ODAC

Sept 19, 2017

- Question of whether to recommend Sunitinib as adjuvant therapy for high risk RCC (S-TRAC)
- 12 member panel split 6-6
- Updated HR for OS 0.92 (95% CI: 0.66, 1.28)
 - Final analysis due January 2019

Pitfalls

Everyone else is doing it...

- Is DFS an appropriate endpoint in this setting
 - Yes- it is used in other cancers (melanoma, colon ca, breast ca)
 - OS takes too long to achieve
 - No- Lemmings
 - No just disease, but MOA matters
 - No VEGF targeted therapy has ever worked in adjuvant therapy, in any cancer
 - OS data is negative to date w final analysis pending

Pitfalls

It's not how you start the race...

- Is DFS a surrogate for OS?
 - Surrogacy has been proven in other cancers, but not in RCC
 - Cross resistance between VEGF therapies occurs, so we placebo patients may get greater benefit from later therapy
 - And enjoy higher overall QoL
- If you can get the same outcome but start therapy years later, why wouldn't you?

Pitfalls

When does a met become a met?

- DFS is defined by the appearance of a new lesion meeting size criteria
 - Anti VEGF therapy can decrease tumor size by decreasing vascularization...
 - ...without affecting tumor cell content
 - Slowing the maturation of the first met may well increase DFS without improving OS
- DFS may be a radiographic artifact without clinical significance

Summary

- Sunitinib should not be used as adjuvant therapy in high risk RCC
 - There is no demonstrable clinical value
 - DFS is only a number, not an outcome
 - QoL matters, as does treatment related mortality
 - Adjuvant Sunitinib is chronic therapy, with chronic toxicities
 - Our obligation is to the patient