

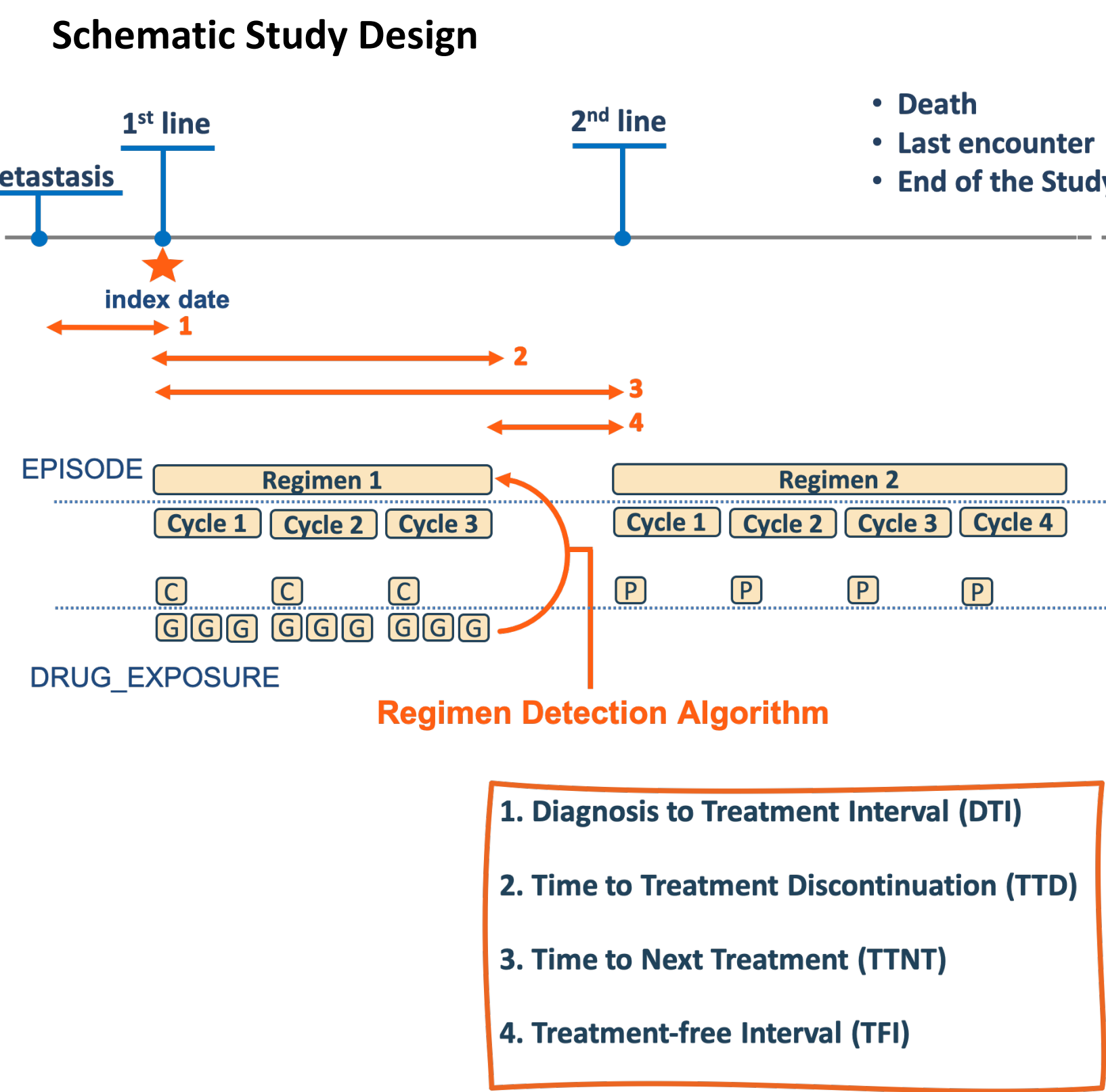
Detailed Cancer Specific Analytics in the Remote OHDSI Network Settings

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- INTRO:
- Observational research in oncology is more challenging than other conditions
 - The OMOP CDM does not adequately cover cancer diagnoses, treatments and episodes
 - The OMOP Oncology Module extends the OMOP CDM and Standardized Vocabularies to support the comprehensive representation of cancer conditions, treatments, and disease abstraction
 - In this work, the utility of the Oncology Module to generate real-world evidence in a distributed network was assessed

METHODS

- Setting
 - US Academic EHR linked to tumor registry:
 - Memorial Sloan Kettering (MSK)
 - Tufts University Medical Center
 - Columbia University Medical Center
 - US Nationwide commercial claims: OpenClaims
 - US Nationwide oncology specific EHR: OncoEMR
 - SK Academic EHR: Ajou University

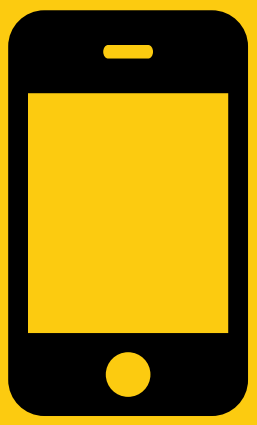


RESULTS

- 11,525 metastatic bladder cancer patients treated with systemic anti-neoplastic agents:
 - Median age: 52 (OpenClaims)- 69 (Columbia)
 - 61%-84% of patients were men

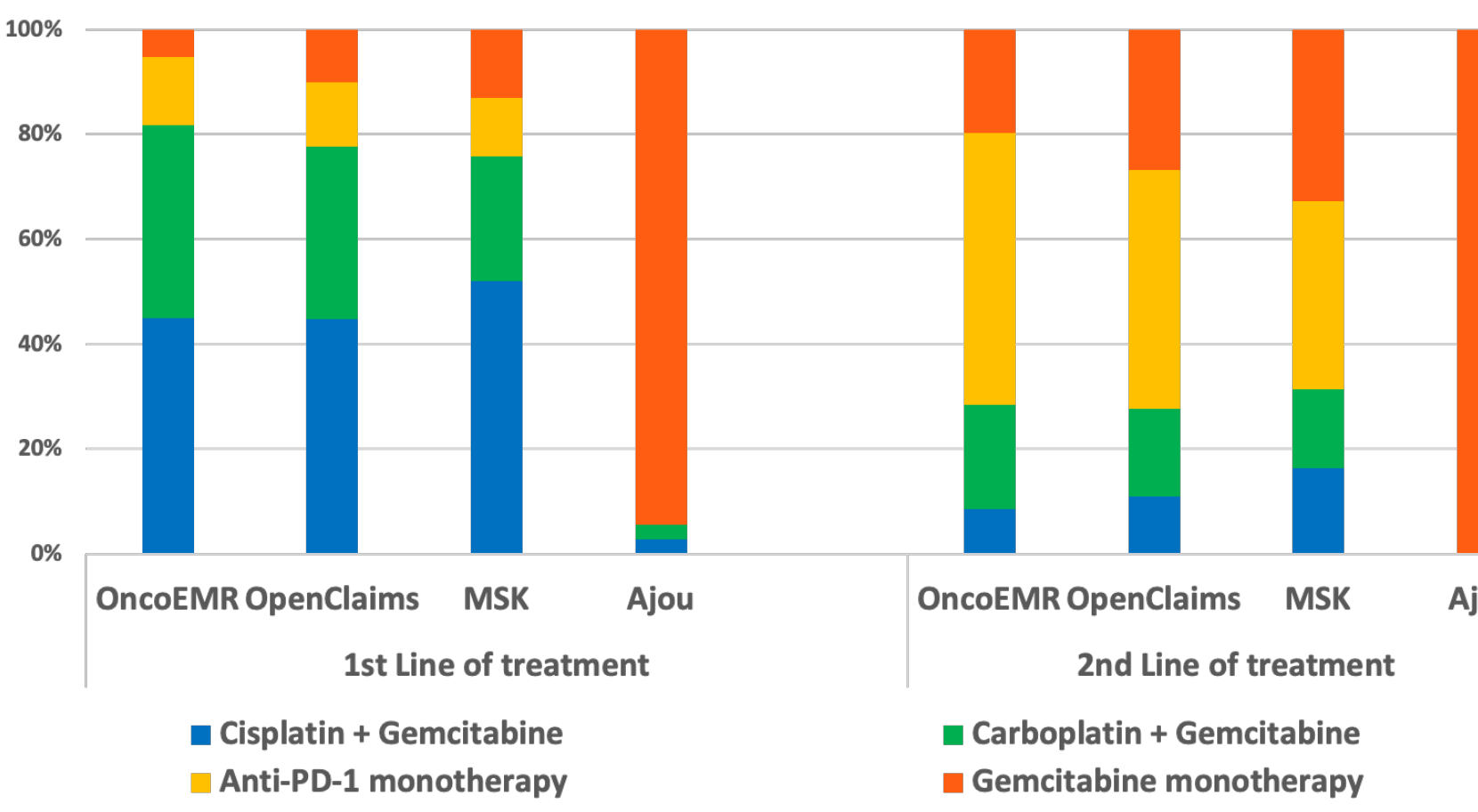
*In line with the known epidemiology of the disease
- Median follow-up time (days): 340 (OpenClaims)-474 (Ajou)
- Distribution of top treatment regimens:
 - Similar in the US databases irrespective of type of data and setting
 - Different between US and SK: potentially due to differences in treatment guidelines and practice pattern

Observational Cancer Studies in OMOP Oncology Module: The Oncology Module supports comprehensive representation of cancer conditions, treatments, and disease necessary to address key research questions



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Distribution of Top Treatment Regimens in the First and Second Lines of treatment

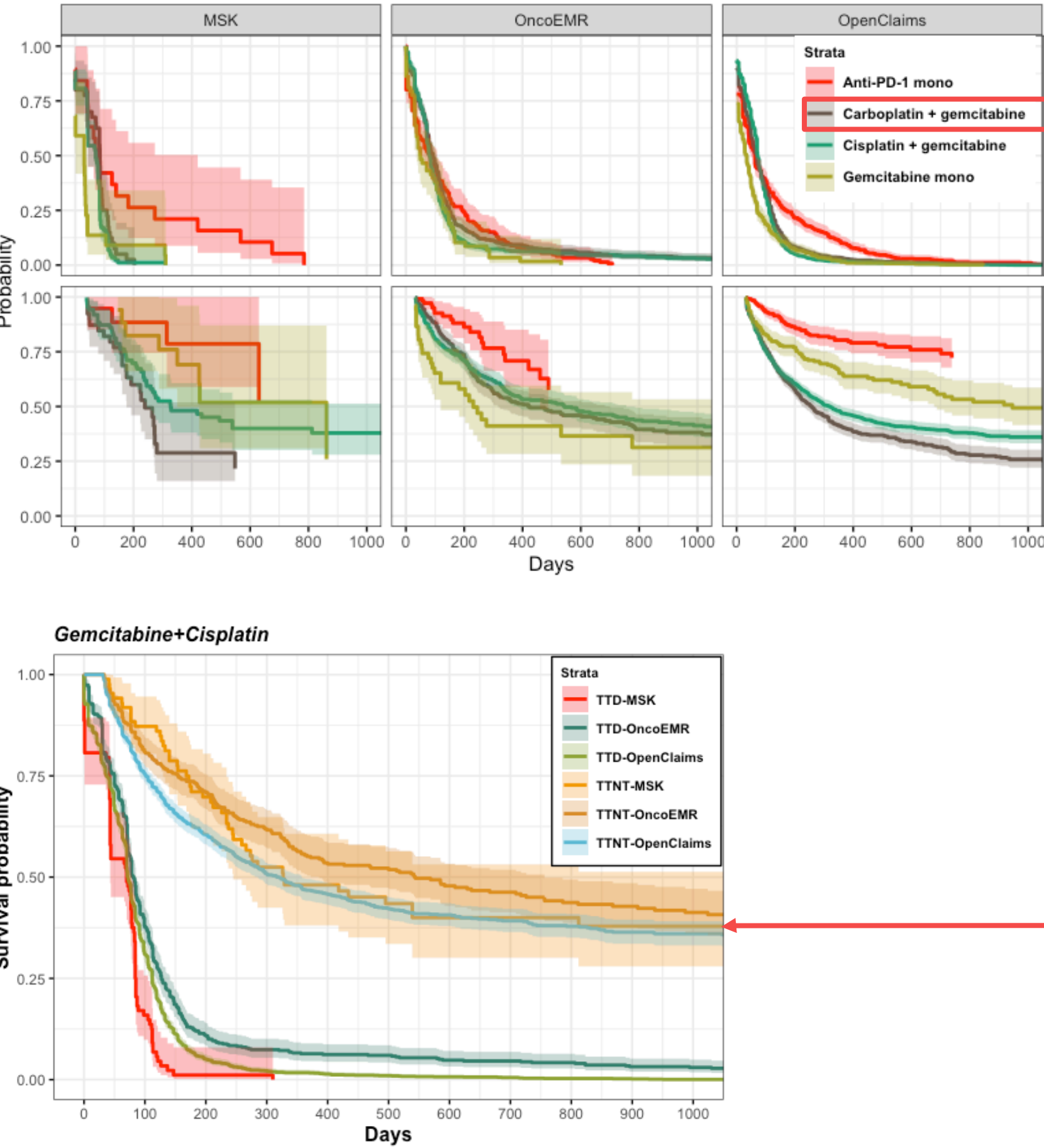


Key treatment related events in 1L (Median days)

	N	DTI	TFI	TTNT	TTD
MSK	294	52	62	153	44
Tufts	9	41	NA	NA	40
Columbia	70	48	28	147	30
Ajou	50	41	NA	NA	121
OncoEMR	1,965	35	43	157	71
OpenClaims	9,137	34	37	121	56

NA: Data not available

Selected KM analysis of TTD and TTNT in the Fist line of Treatment



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