

Abstract 11568, POSTER 502: INTRATUMORAL INT230-6 (CISPLATIN, VINBLASTINE, SHAO) ALONE OR WITH IPIILIMUMAB PROLONGED SURVIVAL WITH FAVORABLE SAFETY IN ADULTS WITH REFRACTORY SARCOMAS (NCT 03058289)

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BACKGROUND AND METHODS

- Metastatic soft tissue sarcomas are a deadly and diverse group of solid tumors derived from mesenchymal cells; highly toxic chemotherapy provides only limited benefit and immunotherapy to date has shown to be mostly ineffective as treatment.
- A new localized method of cancer killing has been created using a novel formulation (INT230-6) consisting of cisplatin (CIS), vinblastine (VIN) and a diffusion enhancer molecule (SHAO) specifically designed to enable drug dispersion throughout a tumor and cancer cell penetration via a passive process following intratumoral (IT) injection.
- The drug causes apoptosis and necrosis resulting in dendritic & T-cells flux to the tumor.
- IT-01 is an open-label phase 1/2 study in adults with locally advanced, unresectable or metastatic solid tumors, including sarcoma. INT230-6 dose was set by tumor diameter or volume and was given IT Q2W for up to 5 doses alone or with IPI IV at 3mg/kg Q3 weeks for 4 doses. Maintenance dosing of INT230-6 was Q9W.
- Previously reported results showed INT230-6 alone induced tumor regression in uninjected lesions¹ (an abscopal effect) in multiple cancer types both immunogenic (hot) and non-immunogenic (cold) with T-cell infiltrates identified within the tumor.

Primary Outcome Measures for Phase 1/2 study: Assess the preliminary efficacy of INT230-6 alone or in combination with immunotherapy as measured by overall survival and disease control rate in specific cancer types.

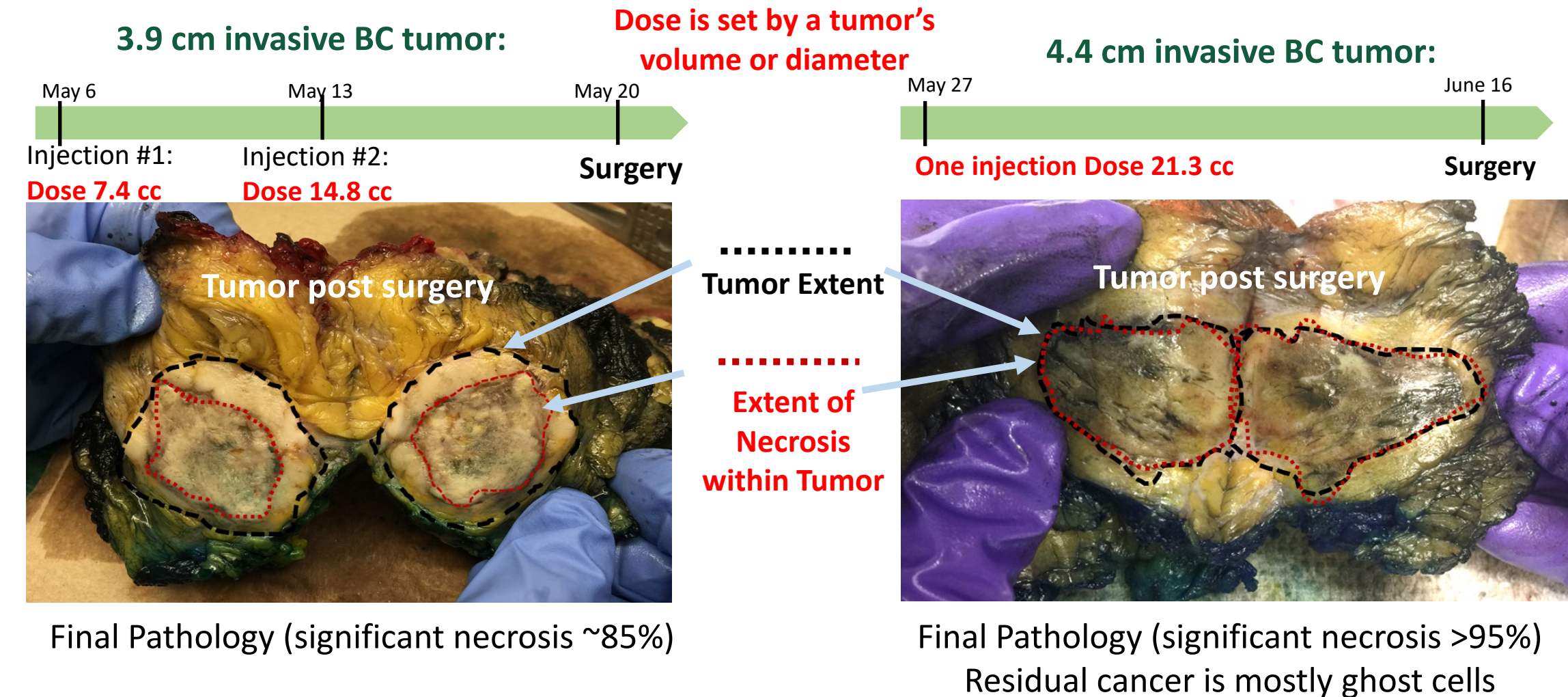
Additional Outcome Measures for Phase 1/2:

Characterize the overall safety of INT230-6 alone or in combination with immunotherapy by the rate of grade 3 or higher adverse events (AEs) attributed to the study treatments.

Characterize the pharmacokinetic (PK) profile of multiple doses of the three INT230-6 components (CIS, VBL, and SHAO) after single and then multiple IT tumor site injections.

INTRATUMORAL INJECTION OF INT230-6 LEADS TO DRUG DISPERSION THROUGHOUT THE LESION AND HIGH PERCENTAGES OF NECROSIS IN LARGE HUMAN TUMORS

Tumor death is dependent on total dose given per treatment (images below are from a neoadjuvant study in breast cancer)



1. Thomas, J. S, et. al. SITC 2021 Abstract Number: 501

INT230-6, a locally delivered cytotoxic treatment leading to a systemic immune response in hot or cold tumors, is a new way to treat cancer

Compared to synthetic controls² INT230-6 alone extended survival in refractory soft tissue sarcoma subjects by nearly 450 days with favorable safety; OS may be improved with IPI

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SCAN ME

SARCOMA SUBJECTS DEMOGRAPHICS

| Demographics (DataLock) | INT230-6 (n=15) | INT230-6 + IPI (n=14) |
|--------------------------------------|-----------------------------|-----------------------|
| Age (median, range) | 64 (41.9-76.1) | 63.2 (33-82.1) |
| Gender | 73.3% male | 50% male |
| ECOG | 0 (13.3%), 1 (80%) 2 (6.7%) | 0 (42.9%) 1 (57.1%) |
| Median # of prior therapies, (range) | 3 (0-8) | 5 (0-9) |
| # of tumors injected (% deep) | 120 (47.5) | 127 (69.4%) |

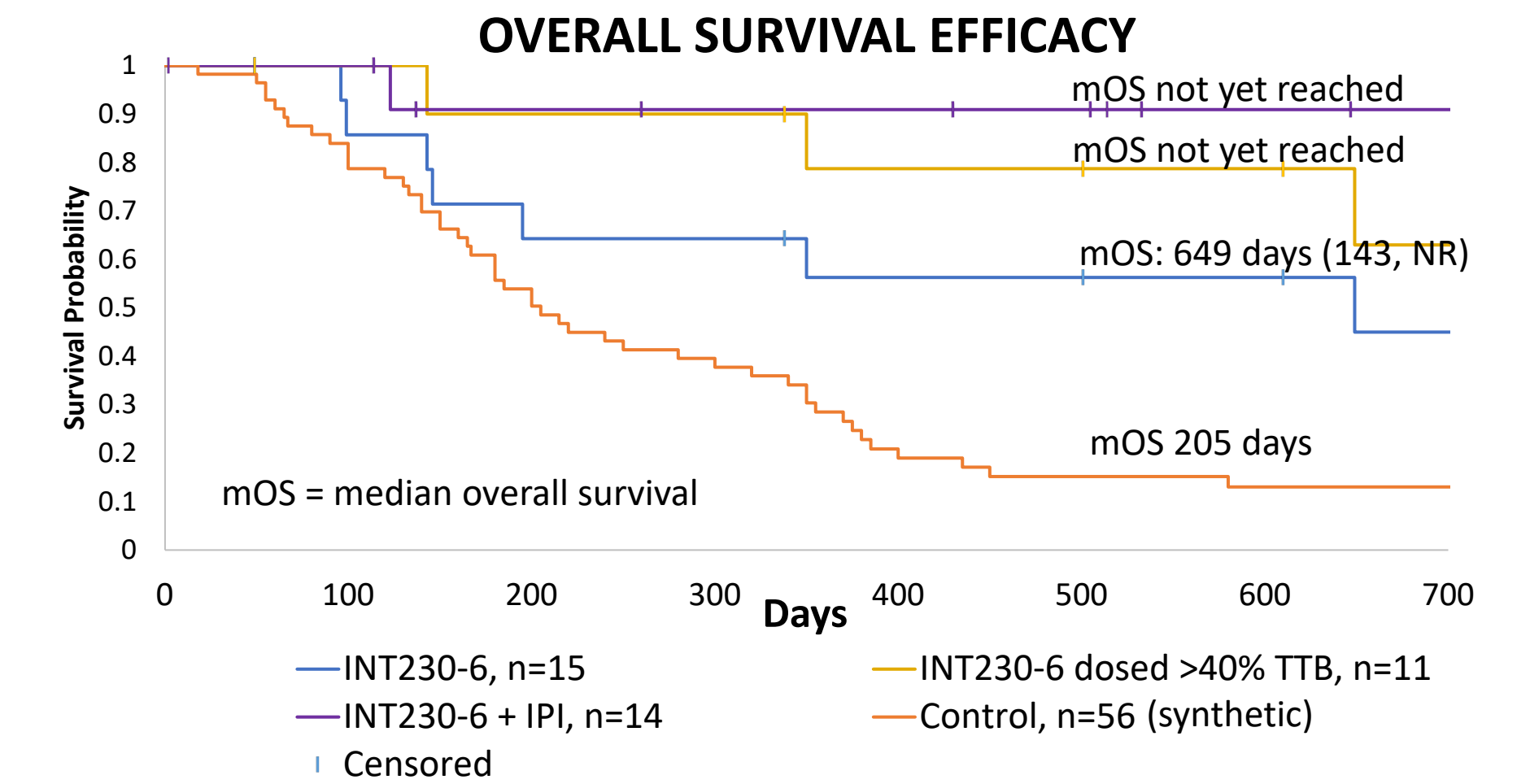
SAFETY

The vast majority of TEAEs related to the drug regimen were grade 1 or 2; two monotherapy and one combination subject had a grade 3 AE. There were no related grade 4 or grade 5 drug regimen AEs in either arm

Treatment-Emergent Adverse Events (TEAEs), n (%), Considered Related To Drug Regimen by MedDRA Coded SOC/PT – All Sarcoma Treated Population 3 or more events for category.

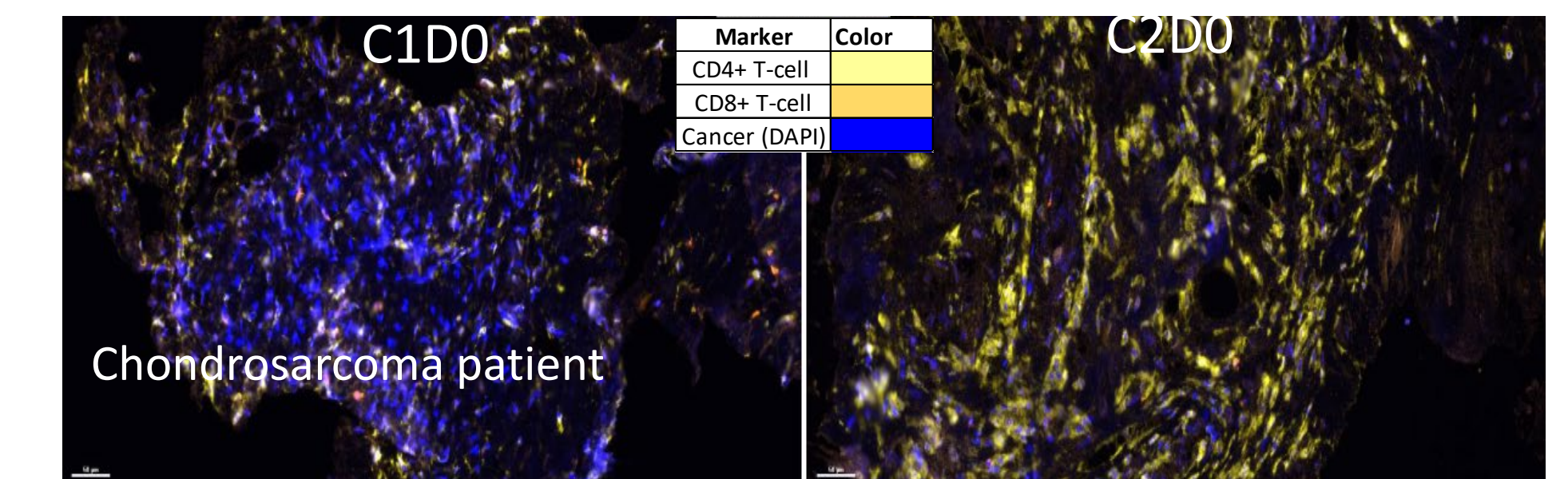
| Data as of February 22, 2023 | Monotherapy Sarcoma (N=15) | INT230-6 + IPI Sarcoma (N=14) |
|--|----------------------------|-------------------------------|
| Total # of TEAEs Related to Study Drug | 107 | 76 |
| Subjects With at Least One TEAEs Related to Study Drug | 14 (93.3%) | 12 (85.7%) |
| Localized tumor-related pain | 12 (80.0%) | 6 (42.9%) |
| Fatigue | 6 (40.0%) | 5 (35.7%) |
| Nausea | 7 (46.7%) | 4 (28.6%) |
| Vomiting | 5 (33.3%) | 3 (21.4%) |
| Decreased appetite | 5 (33.3%) | 2 (14.3%) |
| Pruritus | 0 | 3 (21.4%) |
| Rash maculo-papular | 0 | 3 (21.4%) |
| Anaemia | 3 (20.0%) | 2 (14.3%) |

2. Synthetic control: Using survival results based on Royal Marsden Hospital scoring (RMHS) reported in Subbiah V, et al. Clin Rep. 2016;6:35448, we created a synthetic control (n=56) using our study's sarcoma subject's RMHS parameters



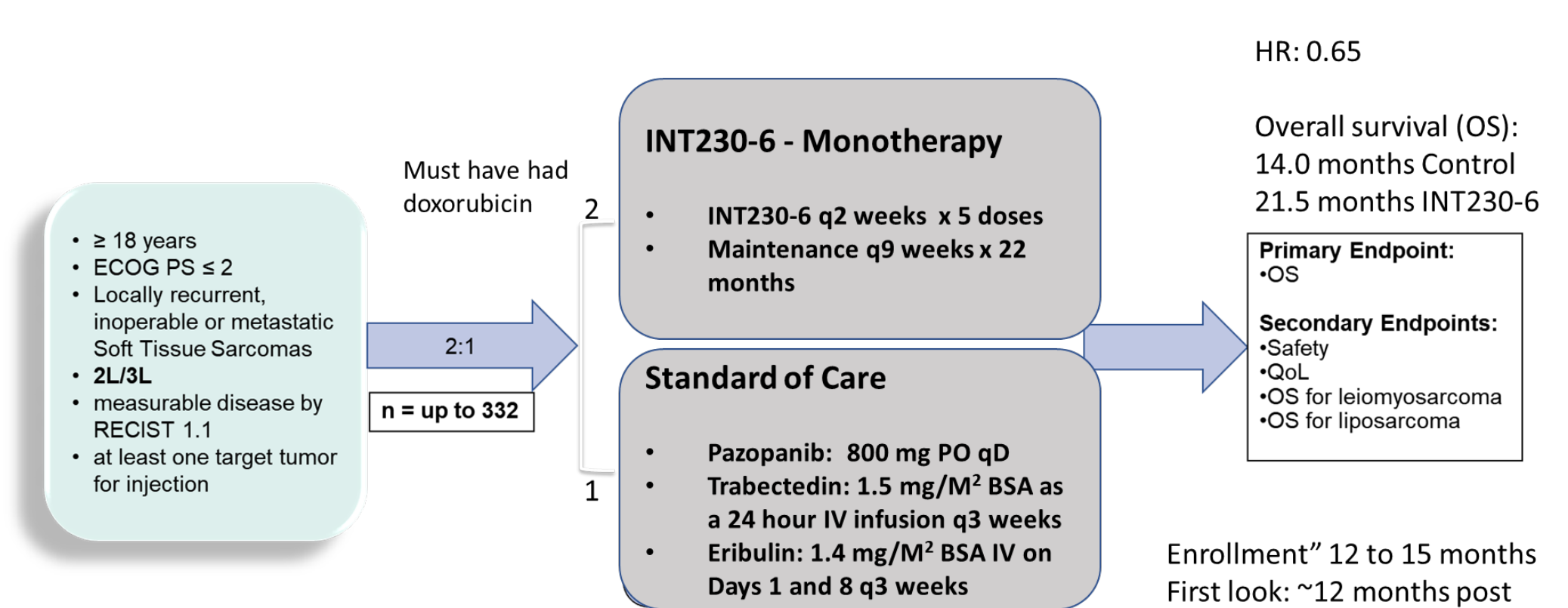
Dosing relative to presenting total tumor burden (TTB) show increased survival with higher drug volume loaded for sarcoma subjects administered INT230-6 with or without ipilimumab compared to a synthetic control². Abscopal responses for INT230-6 alone (previously reported) were primarily in subjects dosed $\geq 40\%$ of TTB. The disease control rate (DCR; Stable disease + partial response + complete response divided by number of subjects) for the all-treated population (those who received at least one dose of INT230-6) was 93% for monotherapy and 86% for the ipi combo. For combo, one subject had yet to reach first timepoint for SD.

INCREASE IN IMMUNE BIOMARKERS IN SARCOMA



Biopsies taken pretreatment cycle 1 day 0 (C1D0) and Day 28 (C2D0) for immunohistochemistry analysis. There was a notable reduction in cancer cells (blue) post 2 doses of INT230-6 at day 28 and an increase CD4+ (yellow) CD8+ T-cells.

FUTURE DIRECTIONS: PHASE 3 STUDY DESIGN



Data readout at 80% of events

Two interim looks at 50% and 75% of events: test for futility and efficacy