

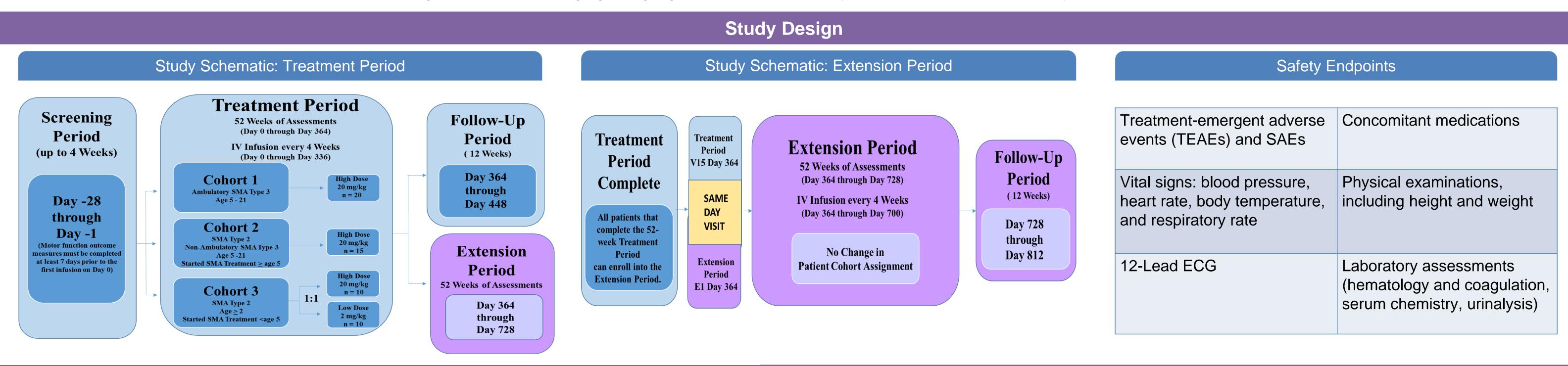
A Phase 2 Study to Evaluate the Efficacy and Safety of SRK-015 in Patients with Later-Onset Spinal Muscular Atrophy (TOPAZ): An Introduction Amy Place, PhD, MBA, MS, RD, CLT on behalf of the Scholar Rock SRK-015 team Scholar Rock, Inc., Cambridge, MA 02139





Abstract

SRK-015 is a fully human anti-proMyostatin monoclonal antibody that is being developed and investigated for the treatment of SMA. This Phase 2 proof-of-concept study is being conducted in 19 study sites across the United States and Europe to evaluate the safety and efficacy of SRK-015 on motor function in later-onset SMA patients (e.g. Type 2 and Type 3 SMA patients) aged 2 through 21 years old. Fifty-eight male and female patients with later-onset SMA have been enrolled across 3 separate parallel Cohorts. Patients receive SRK-015 every 4 weeks via intravenous (IV) infusion during the 52-week treatment period, with patients in Cohort 3 randomized 1:1 in a double-blind manner to either 2 mg/kg or 20 mg/kg SRK-015. Cohort 1 (N=20) enrolled ambulatory Type 3 patients, aged 5-21 years old, at least some of whom are not receiving an approved SMA treatment, as well as patients already receiving an approved SMA treatment that had been started after the patient turned 5 years old. Cohort 3 (N=20) enrolled Type 2 patients, aged \geq 2years old, already receiving an approved SMA treatment that had been started after the patient turned 5 years old. Cohort 3 (N=20) enrolled Type 2 patients, aged \geq 2years old, already receiving an approved SMA treatment that had been started after the patient for Cohort 1 is the change from baseline in the Revised Hammersmith Scale (RHS). Key secondary assessments include the proportion of patients attaining various thresholds of change from baseline in RHS and change from baseline in Naroius timed tests. The primary efficacy endpoint for Cohort 2 and 3 is change from baseline in Revised Upper Limb Module (RULM). Additional exploratory endpoints will be evaluated. Safety will be assessed through of the trial and will be monitored by a Safety Surveillance Team (SST). Blood samples for the measurement of SRK-015 concentrations, circulating latent myostatin concentrations, and anti-SRK-015 antibodies will be obtained. Baseline patient characteristics and demographic data, including age range

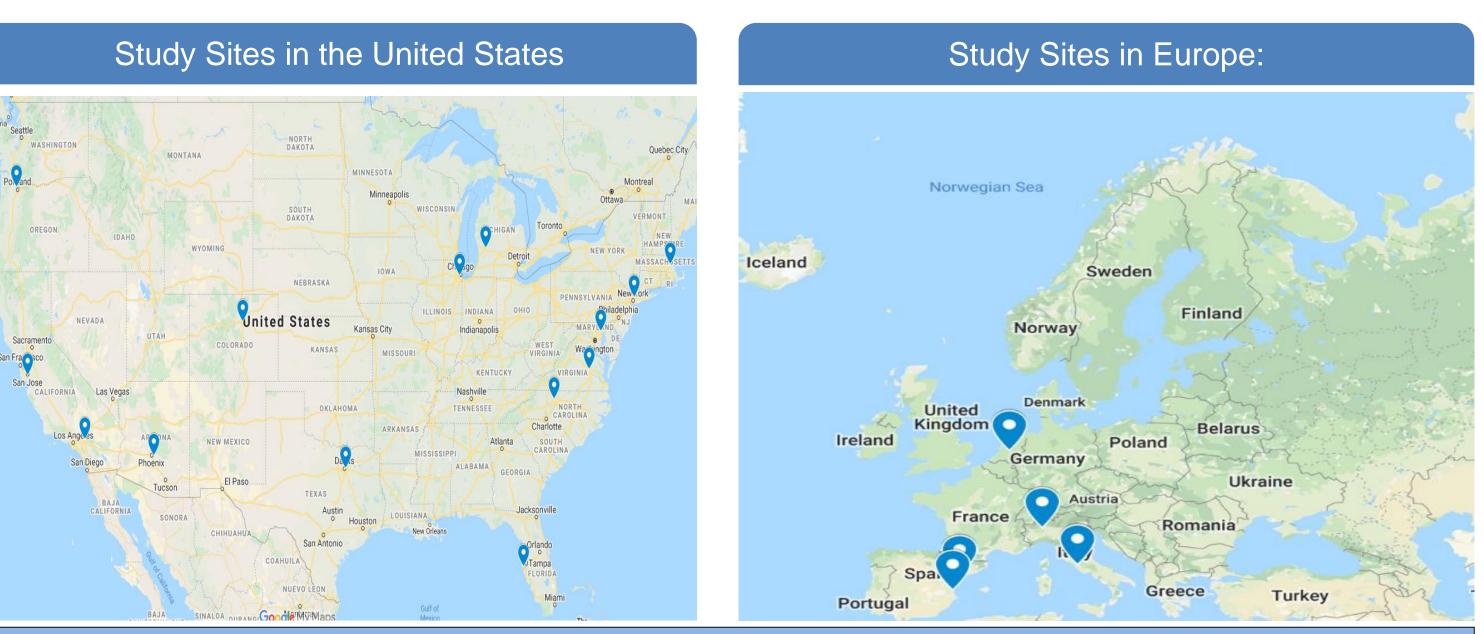


Study Design (Continued)

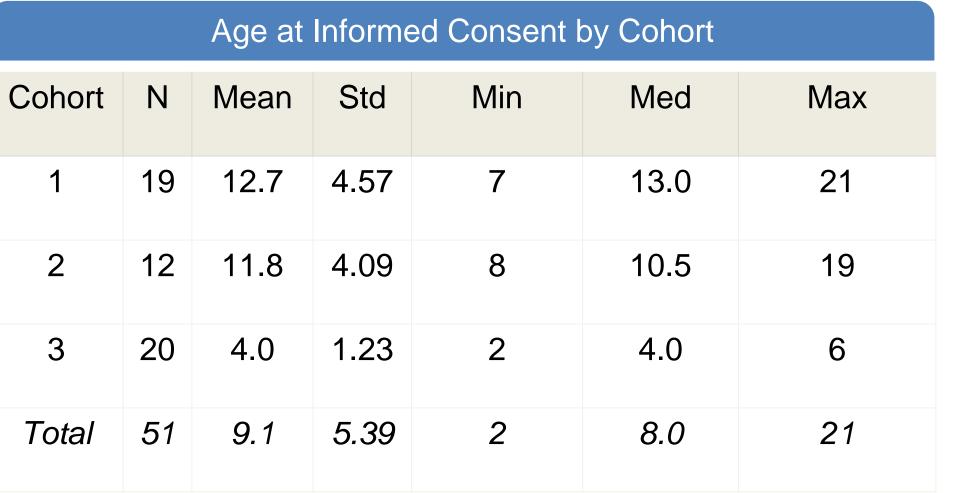
Study Operations

Key Efficacy Objective and Endpoints									
	Cohort 1	Cohorts 2 and 3							
Primary:	The mean change from baseline in Revised Hammersmith Scale (RHS) over 12 months of treatment	The mean change from baseline in Hammersmith Functional Motor Scale Expanded (HFMSE) over 12 months of treatment							
Key Secondary	Proportion of patients attaining various thresholds of change from baseline in RHS and change from baseline in 6- minute walk test (6MWT)	Proportion of patients attaining various thresholds of change from baseline in HFMSE and change from baseline in RULM							

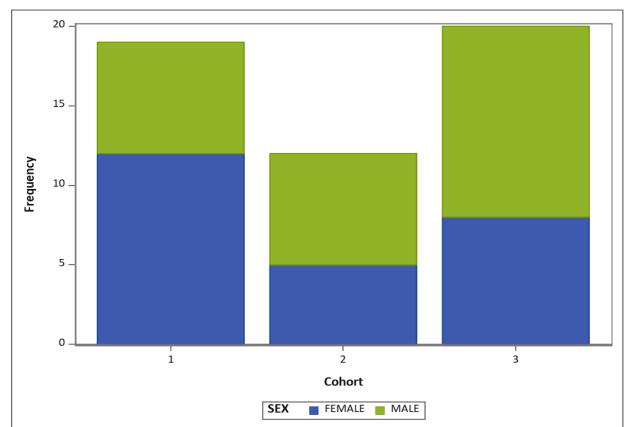
Additional Measurements and Endpoints								
Pharmacokinetic	Pharmacodynamic: Latent Myostatin Serum Concentrations							
Anti-drug Antibodies								



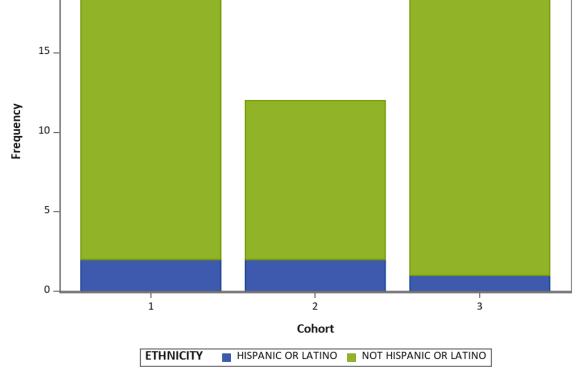
Enrollment Completed (#Dosed): Cohort 1: 23/20; Cohort 2: 15/15, Cohort 3: 20/20



Sex Distribution by Cohort



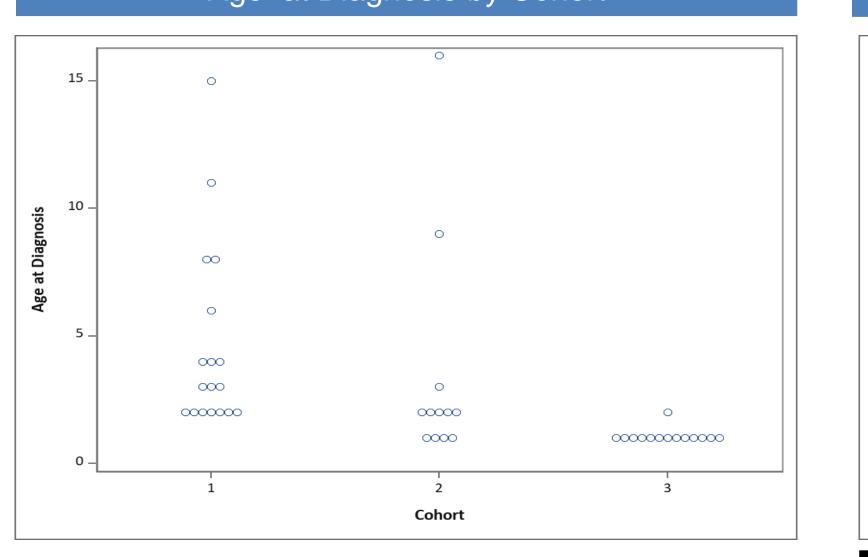
10.5 19 4.0 6 8.0 21 SEX # FEMALE

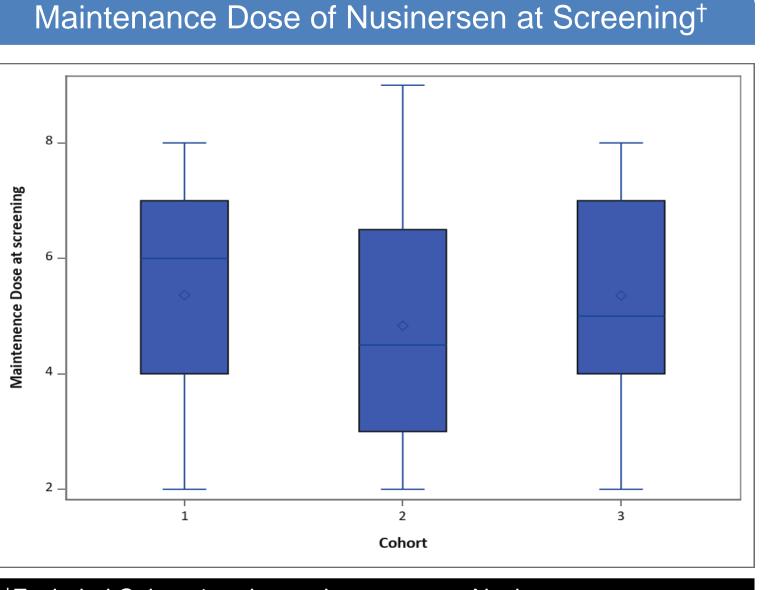


Ethnicity Distribution by Cohort

Preliminary Pharmacokinetic (PK)/Pharmacodynamic (PD)**

Age at Diagnosis by Cohort



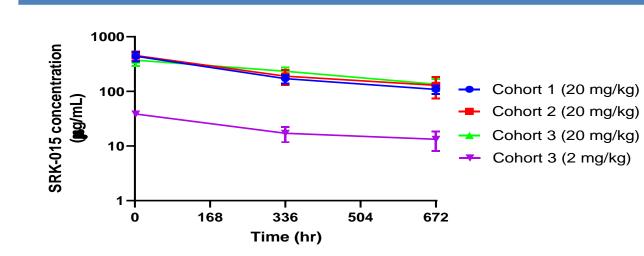


Preliminary TOPAZ PK Data

Cohort

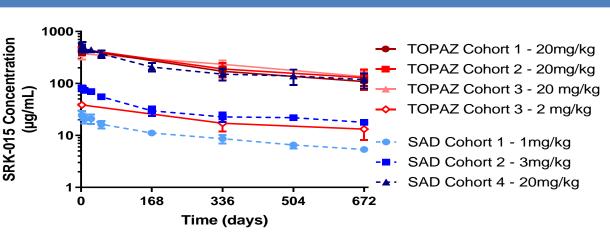
Race 🛛 Asian 📕 Black 🔄 White 🔂 Other

Race Distribution by Cohort

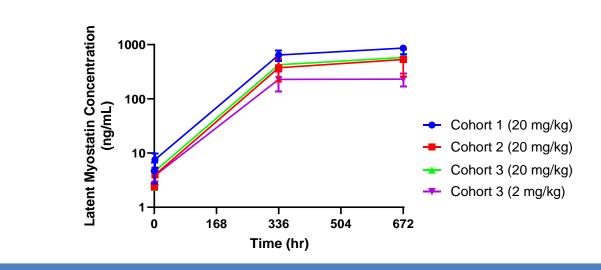


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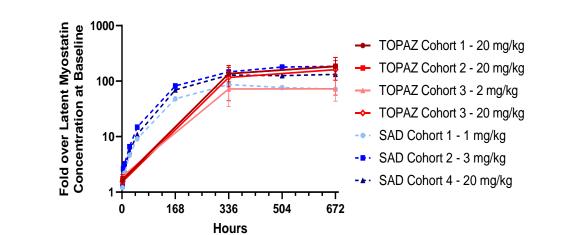
TOPAZ vs Phase 1 SAD



Preliminary TOPAZ PD Data



Latent Myostatin Change over Baseline, TOPAZ vs Phase 1



Functional Motor Skills at Screening*

Disease History*

RHS Score at Screening, Cohort 1							HFMSE at Screening, Cohort 2 and 3						Summary	Acknowledgment patients, the Phase	
	N	Mean	Std	Min	Med	Max	Cohort	Ν	Mean	Std	Min	Med	Max	 Preliminary demographic and baseline 	preclinical and clin CRO), the SMA For community.
RHS Score	10	47.4	10.12	27	49	62	2	12	22.5	8.39	12	20.0	35	with nusinersen (e.g., Mercuri 2018, Darras 2019), and ensure appropriate inclusion of subjects with	References:
6 Minutes Walk at Screening [‡] , Cohort 1						3	16	24.8	8.92	14	22.0	44	 Type 2 and 3 SMA As of planned data cutoff in November 2019 (N=29), preliminary PK data show that SRK-015 exposure in patients with SMA is consistent with that in healthy 	 Darras BT et al Mercuri E et al. 635 	
		N Mea	an St	td Mir	n Med	Max	Total	28	23.8	8.62	12	21.5	44	volunteers; preliminary PD (latent myostatin in serum) data provide first demonstration of target	Disclaimer: SRK-0 candidate being de
Distance Wall	ked(m) 15 284	.9 149	.33 32	350.0) 514	significant safety signals have been observed as of the most recent data cutoff (Nov 2019); press								other indications. T SRK-015 have not has not been appro agency.
[‡] Only including patients who are ambulatory and completed the test														-	

*Demographics, baseline and SMA disease history data presented were based on data entered and source verified as of Jan 08, 2020. **PK/PD analyses were performed as part of a planned data cutoff in Nov 2019 and include data from 29 patients.

Summary

cknowledgments: The authors thank the Phase 2 atients, the Phase 2 PIs, SCs and site staff, SRK-015 reclinical and clinical teams, Medpace (Phase 2 RO), the SMA Foundation, Cure SMA, and the SMA

 Darras BT et al. Neurology. 2019; 92(21)
 Mercuri E et al. N Engl J Med. 2018 378(7) 625-635

Disclaimer: SRK-015 is an investigational drug candidate being developed and studied for SMA and other indications. The effectiveness and safety of SRK-015 have not been established and SRK-015 has not been approved by the FDA or other regulatory agency.