Real-world treatment with risdiplam in adults with SMA: A multicenter study

S Shapouri,^{1*} S Candrilli,² L Miles,² A Simpson,³ CJ Guittari⁴

¹Genentech, Inc., South San Francisco, CA, USA, ²RTI Health Solutions, Research Triangle Park, NC, USA, ³Global Access, F. Hoffmann-La Roche Ltd, Basel, Switzerland, ⁴PDMA Neuroscience and Rare Disease, Genentech, Inc., South San Francisco, CA, USA.

*shapouri.sheila@gene.com

Background

- Risdiplam (EVRYSDI[®]) is a centrally and peripherally distributed oral SMN2 pre-mRNA splicing modifier that increases the levels of functional SMN protein.^{1,2}
- Risdiplam has been approved for the treatment of patients with SMA in more than 90 countries worldwide.^{3*}
- Although there is a body of literature on the use of risdiplam in adult patients from clinical trials, including SUNFISH (NCT02908685; 2–25 years)^{4,5} and JEWELFISH (NCT03032172; 1–60 years)⁶, real-world evidence on adult patients receiving risdiplam is limited.
- Adults with SMA currently account for >35% of the SMA population worldwide; this proportion will grow as new treatments support survival into adulthood.⁷

Study design

A real-world retrospective, non-interventional cohort study of patients with a confirmed diagnosis of SMA who
received treatment with risdiplam at age ≥25 years

Risdiplam treatment start (study index date)

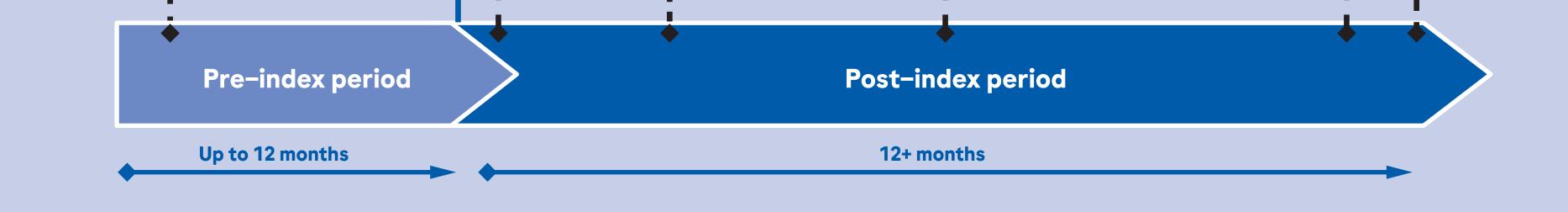
Study measure timepoints:	12 months preceding initial risdiplam order	First order date* ∎	~6 months after first order	~12 months after first order
		Clinic visit following the first order		Last visit to clinic



Genentech A Member of the Roche Group

• Here we present the design of a retrospective, non-interventional cohort study that aims to increase understanding of the characteristics, treatment patterns and clinical outcomes of patients aged ≥25 years treated with risdiplam.

*Risdiplam has been approved for the treatment of pediatric and adult patients with SMA by the FDA and for patients aged ≥2 months with a clinical diagnosis of Type 1, 2 or 3 SMA or with one to four copies of SMN2 by the EC.^{8,9}



 Patients will have differing durations of follow-up (minimum of 1 year) and, where appropriate, study measures may be standardized (e.g. monthly/annually).

Selection criteria



Outcome measures

≥25

years

Age

Patient demographics



Clinical, genetic and disease-specific

characteristics







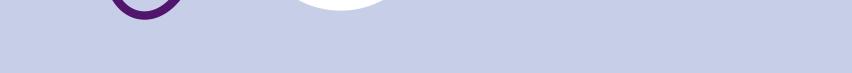


Outpatient Number office visits with with the second secon

Number of days treated with modality

Clinical outcome measures

SMA-related healthcare resource utilization





*After drug authorization or prior to drug authorization but provided via an expanded access program. ⁺The first visit occurring on or after initiation of risdiplam and the last visit occurring on or before the date of data abstraction.

Data collection and analysis

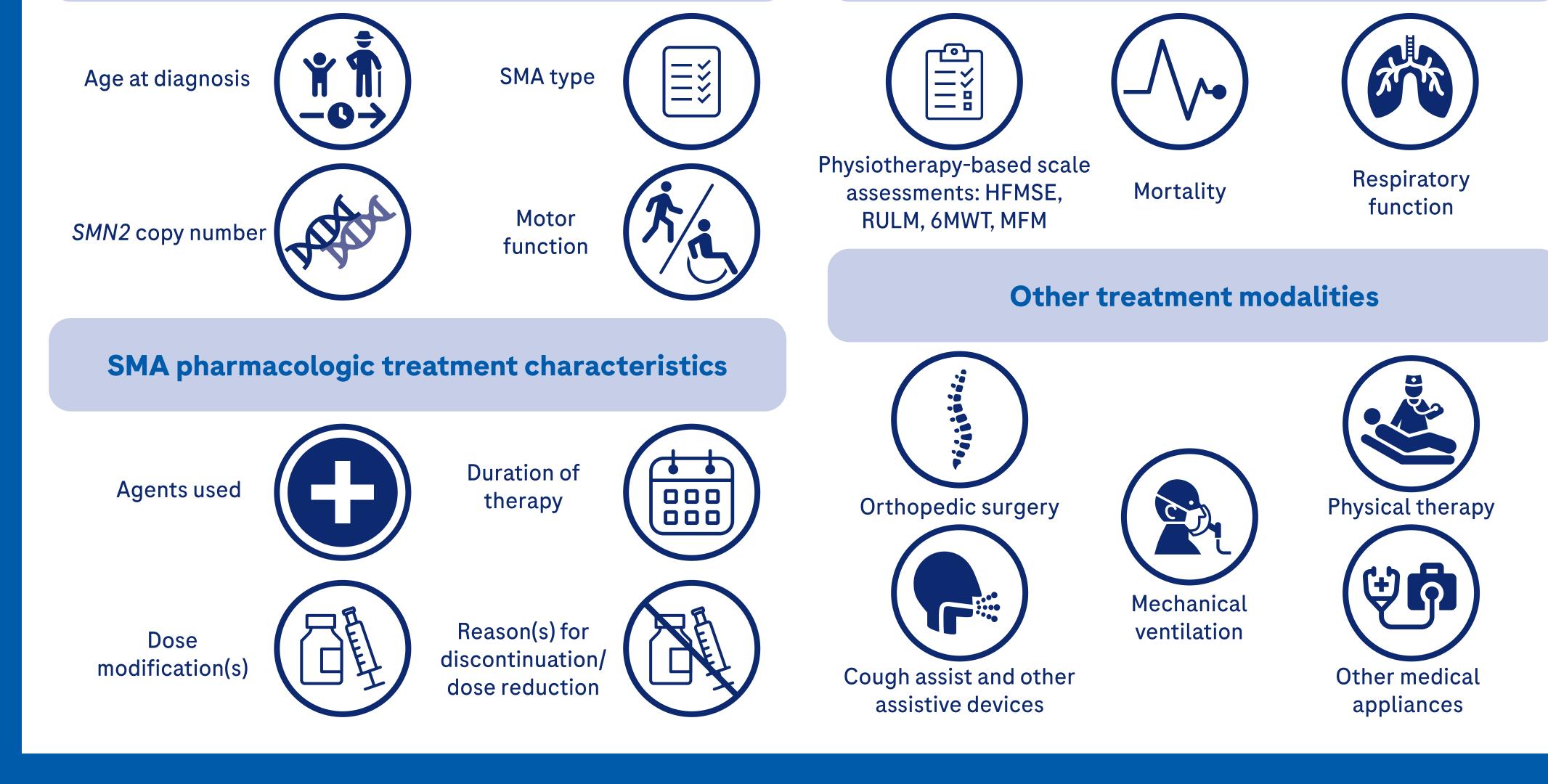
- Medical record data will be abstracted from the histories of eligible patients managed for SMA at each participating site. All medical information available in the patient's record at the participating site will be eligible for review by the site's abstraction team.
- A maximum of 70 patient records are expected from at least three sites across the US depending on participating sites and number of eligible records at each site.
- Data will be descriptive in nature and summarized using univariate statistics, including mean, standard deviation, minimum, maximum, and median for continuous variables and frequency distributions for categorical variables.
- Results will be presented overall and by relevant

Study feasibility

- As part of the assessment for site feasibility we assessed the measures that clinicians use for their patients in real-world clinical practice.
- Outcome measures for this study were then selected based on the responses from the sites to reflect the current clinical practice.

Pilot test

- Prior to the start of data collection, two identified study sites will be contacted to obtain ethics clearance and pilot test the electronic data capture form.
- Pilot testing will include full abstraction of up to two patient records by each site using the most current version of the electronic data capture form.
- A pilot feedback guide will be provided to the sites to



Limitations

 Data captured will be limited to information available in the medical records held by the physicians at the participating sites. Study results will be based solely on the population included in this study. As sites are not randomly chosen, the results will not be generalizable to all adult patients ≥25 years of age with SMA.

Conclusions

 This study is expected to provide real-world data on adults with SMA who are aged ≥25 years and have been treated with risdiplam, including disease-specific and other relevant clinical and genetic characteristics and treatment patterns.

subgroups i.e., previously treated, ambulant or non–ambulant, *SMN2* copy number, disease onset and disease severity.

• This study is explorative and statistical comparisons between subgroups for the purpose of hypothesis testing are not within the scope of this study.

be used during pilot interviews.

Participating sites

• Site enrollment is currently open.

 For more information on how to participate in this study, please contact <u>guittari.carol-jean@gene.com</u> Treatment patterns, disease monitoring and HCRU patterns may reflect site-specific protocols. Multiple sites will, however, be included in this study to mitigate these effects. • This will fulfill a critical need for descriptive information about the diagnosis, treatment, management and outcomes for this population.

Abbreviations

6MWT, 6-minute walking test; EC, European Commission; FDA, US Food and Drug Administration; HCRU, Health Care Resource Utilisation; HFMSE, Hammersmith Functional Motor Scale Expanded; MFM, Motor Function Measure; mRNA, messenger ribonucleic acid; RULM, Revised Upper Limb Module; SMA, spinal muscular atrophy; SMN, survival of motor neuron; US, United States.

Acknowledgments

We would like to thank the individuals with SMA and their families and the site staff involved. We would also like to thank our collaborators at PTC Therapeutics and the SMA Foundation for their contribution to this study. This study is funded by F. Hoffmann-La Roche Ltd, Basel, Switzerland.

Writing and editorial assistance were provided by Andrea de Kock, PhD, of Nucleus Global, in accordance with Good Publication Practice (GPP) 2022 guidelines (https://www.ismpp.org/gpp-2022).

References

 Ratni H, et al. J Med Chem. 2018; 61(15):6501–6517;
 Poirier A, et al. Pharmacol Res Perspect. 2018 Nov; 6(6):e00447
 F. Hoffmann-La Roche. May 2022 press release: <u>https://www.roche.com/media/releases/</u> <u>med-cor-2023-03-20</u> (Accessed June 2023);
 Mercuri E, et al. Lancet Neurol. 2022 Jan; 21(1):45–52;
 Oskoui M, et al. J Neurol. 2023; 270(5):2531–2546;

6. Chiriboga CA, et al. *Neurol Ther*. 2023 April; 12(2):543–557;
7. Rad NR, et al. *Muscle Nerve*. 2022 May; 65(5):498-507;
8. EVRYSDI[®] prescribing information: <u>https://www.gene.com/download/pdf/evrysdi_prescribing.pdf</u> (Accessed June 2023);

9. EVRYSDI[®] summary of product characteristics: <u>https://www.ema.europa.eu/en/documents/product-information/evrysdi-epar-product-information_en.pdf</u> (Accessed June 2023).



Please scan using your QR reader application to access the graphs and data presented in this presentation. NB: There may be associated costs for downloading data.

These costs may be high if you are using your smartphone abroad. Please check your mobile data tariff or contact your service provider for more details. Alternatively, this can be accessed at: https://bit.ly/42sPHb3

Presented at the Cure SMA 2023 Research & Clinical Care Meeting, Orlando, FL, USA, June 28–30, 2023