

COST-SAVING IMPACT OF USING NUSINERSEN BY CLINICAL TRIALS FOR SPINAL MUSCULAR ATROPHY

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NUSINERSEN

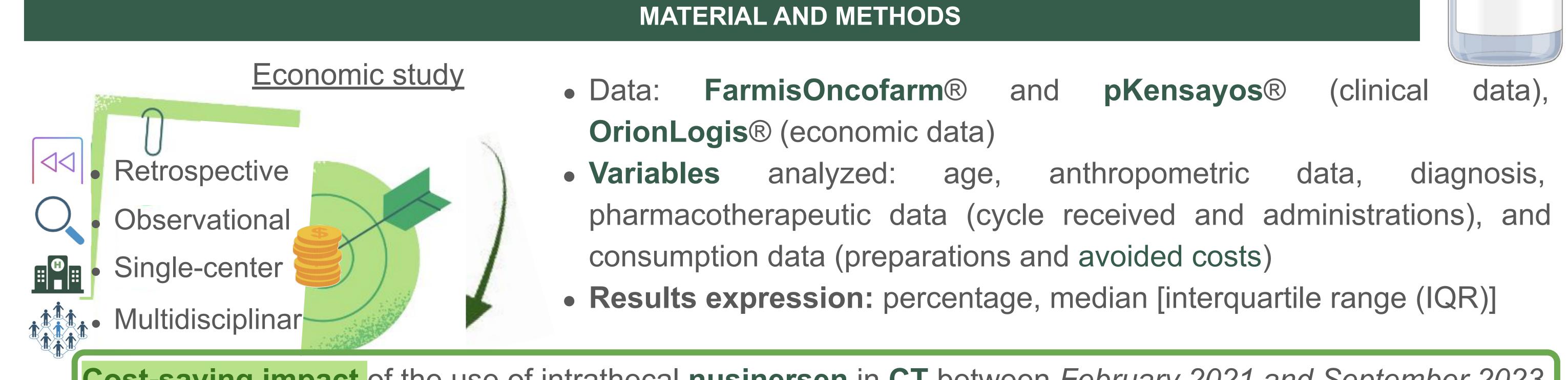
BACKGROUND AND IMPORTANCE

Nusinersen is an antisense oligonucleotide that increases the production of full-length functional survival of motor neuron protein.

- It was the first disease modifying therapy approved for Spinal Muscular Atrophy 5q (SMA).
- SMA is a progressive neuromuscular rare disease, however the cost of available treatments implies a high economic burden for the sanitary system.

AIM AND OBJECTIVES

To analyze the economic advantage of treating SMA in clinical trials (CT) with nusinersen provided by the sponsor.



Cost-saving impact of the use of intrathecal nusinersen in CT between February 2021 and September 2023.

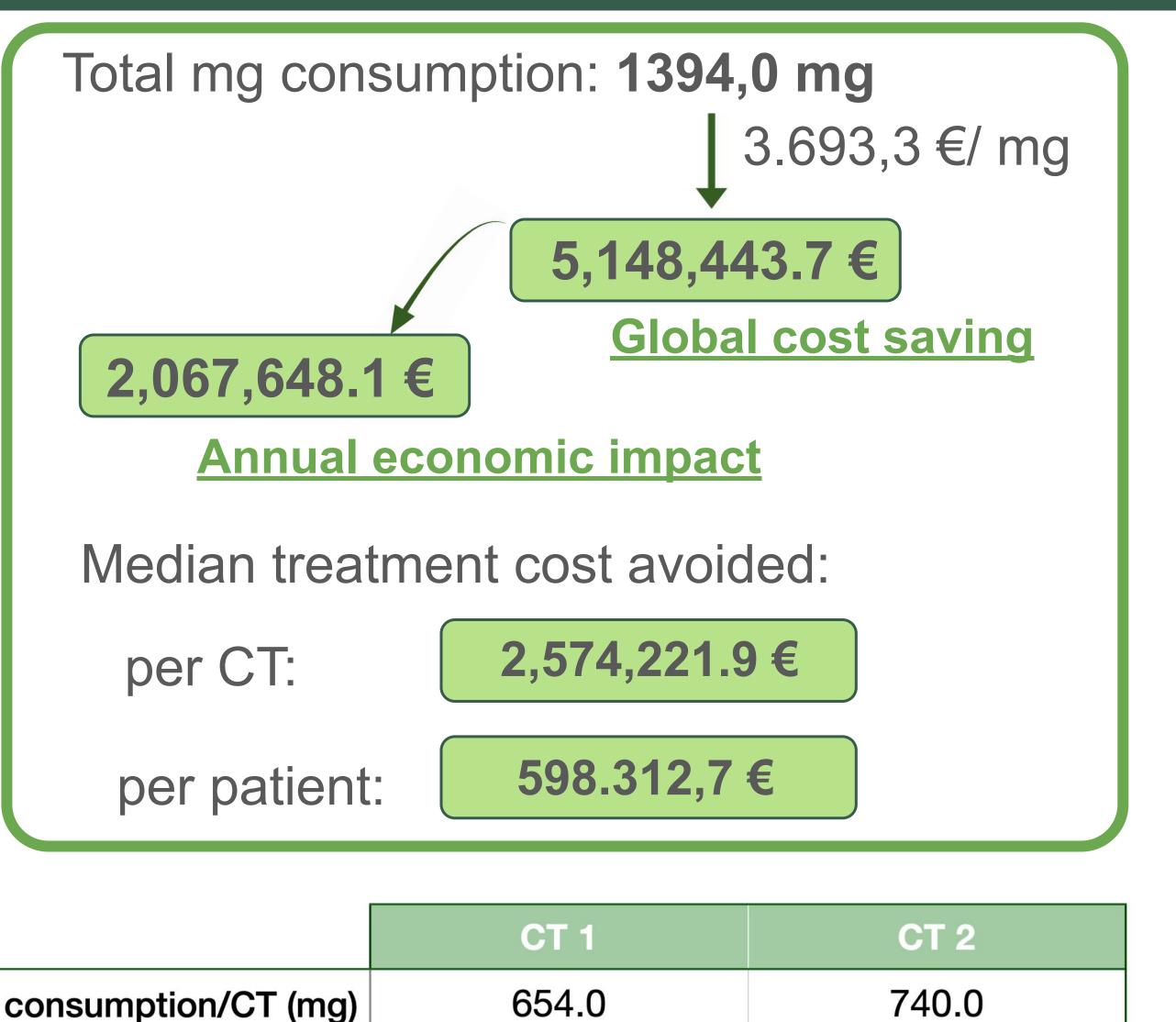
RESULTS

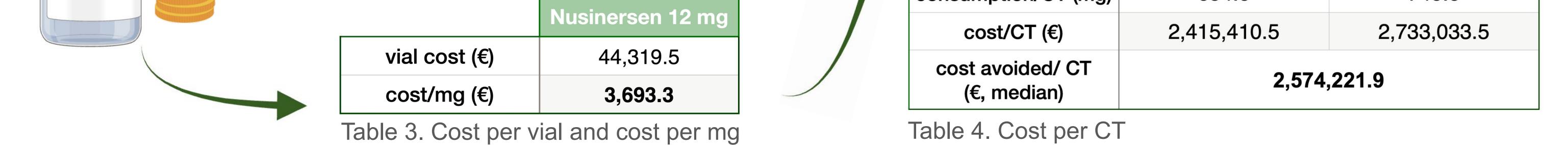
2 CT: Phase II/III + Phase III extension

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	Pediat	rics	Adults	mg/patient (mg)	cost/patient (€)
Ν	5 (71.4%)		2 (28.6%)	240.0	886,389.2
Age	2.8		24.0	296.0	1,093,213.3
(years, median,	2.c [2.5-]		34.8 (31.4; 38.1)	162.0	598,312.7
[IQR])				134.0	3,827.3
Weight (kg, median,	10.0 [6.5-23.0]		78.5 (48.8; 109.0)	206.0	760,817.4
[IQR])				178.0	3,871.3
Table 1. Patient characteristics				178.0	3,871.3
		Total		1394.0	3,350,302.4
		Median [IQR]		178.0 [162.0-240.0]	598,312.7 [3,871.3- 886,389.2]
NUSINERSEN		Table 2. Preparations (mg and cost)			





CONCLUSION AND RELEVANCE

SMA is considered one world's most expensive treatment disease, and nusinersen is th promotion to participate in SMA CT allows access to innovative treatments for patient: aim of reducing the large underlying budgetary burden.



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