



What two recent surveys told us about how SMA impacts patients' and caregivers' lives

Key findings – 05/03/2019

Disclaimers



- *This report presents unpublished findings from two surveys (survey A and survey B) that have not been peer-reviewed and should be used with due caution commensurate with the exploratory nature of the research conducted*
- *Any statements contained herein should not be used in isolation*
- *No healthcare decisions should be made based on the findings of this research solely; the aim of this research is purely to provide additional context to the impact SMA places on patient and caregivers lives in the UK*
- *Survey A was designed and administered by SMA UK in January-February 2018*
- *Survey B was developed in collaboration with SMA UK and Wickenstones, an independent strategy consultancy, sponsored through an arms-length agreement* by Biogen in December 2018-January 2019*

*Biogen has received the report but has not seen individual responses from either surveys

What the surveys asked

SURVEY A

KEY QUESTIONS ASKED

- What is the health impact of SMA on children, young people and adults with the condition who have not been treated with nusinersen?
- How is SMA managed?

SURVEY B

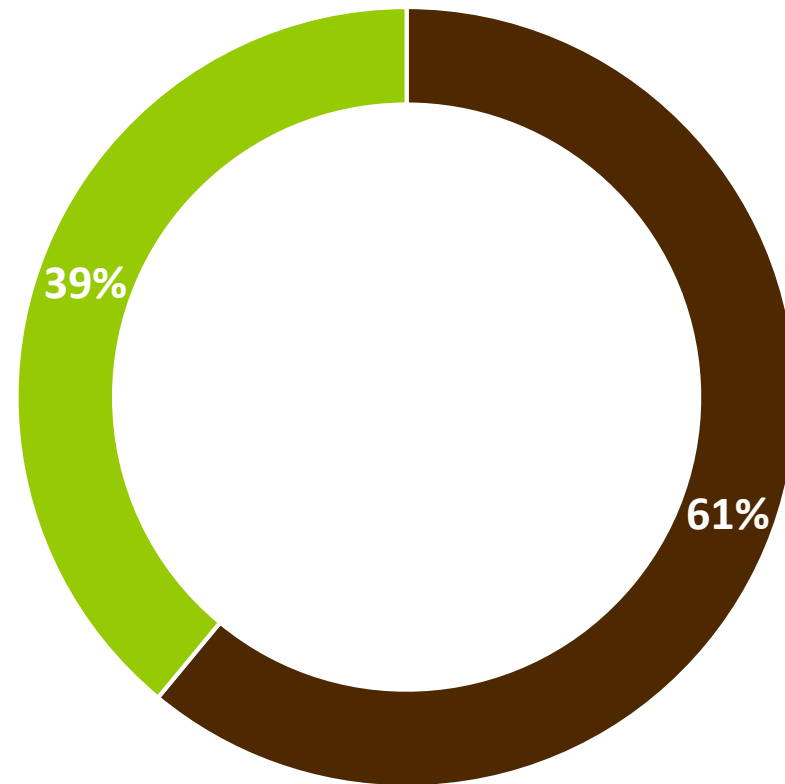
- What is the time, financial and work-related impact for unpaid caregivers of children, young people and adults with SMA?

10-15% of the UK SMA population responded to the surveys



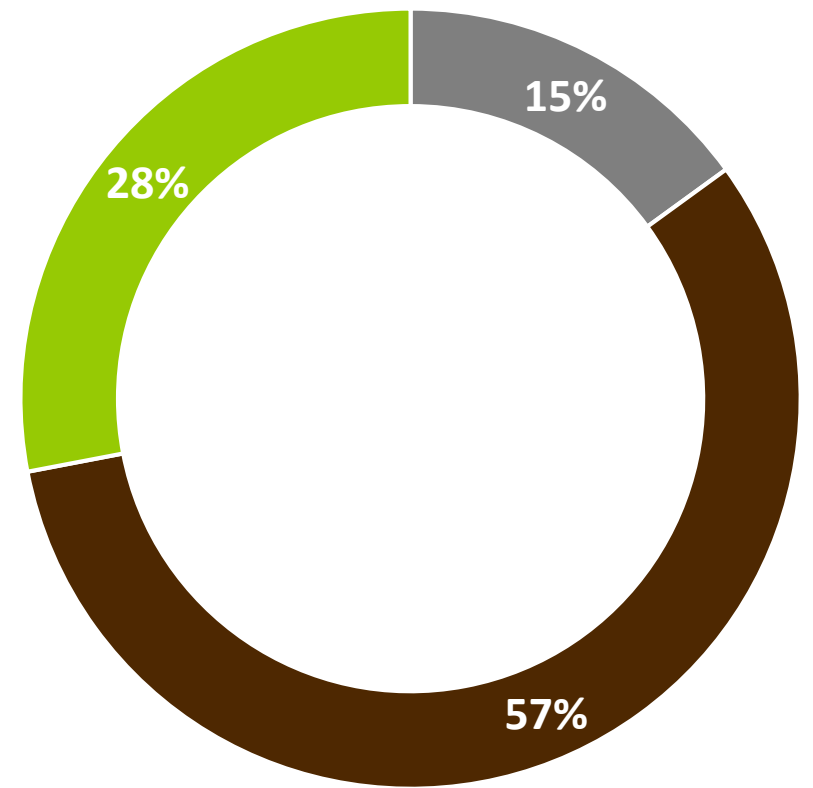
- Approximately 1,000-1,500 people in the UK have SMA
- Survey A had too few responses from caregivers whose child has SMA type 1 to be able to include them in the results

Survey A (n=125)



■ Type 2 ■ Type 3

Survey B (n=188)

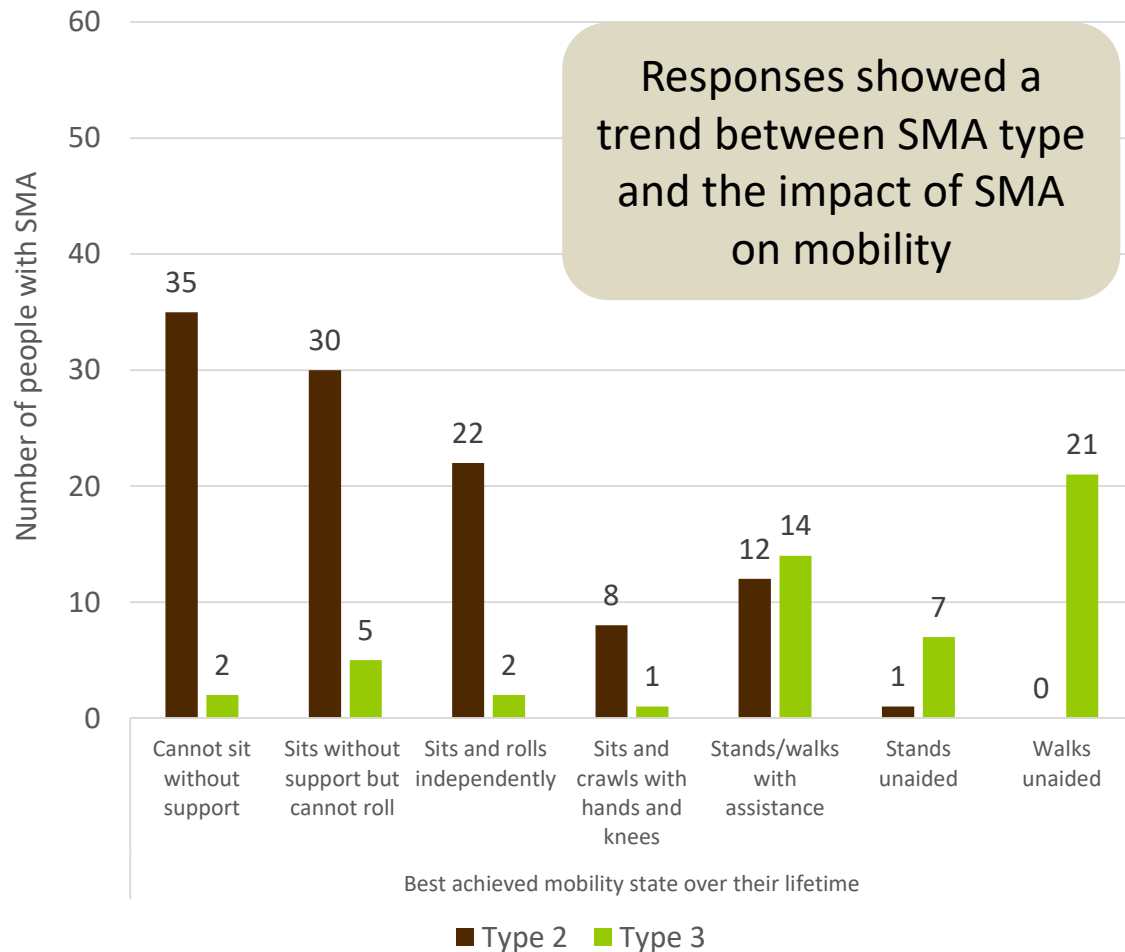


■ Type 1 ■ Type 2 ■ Type 3

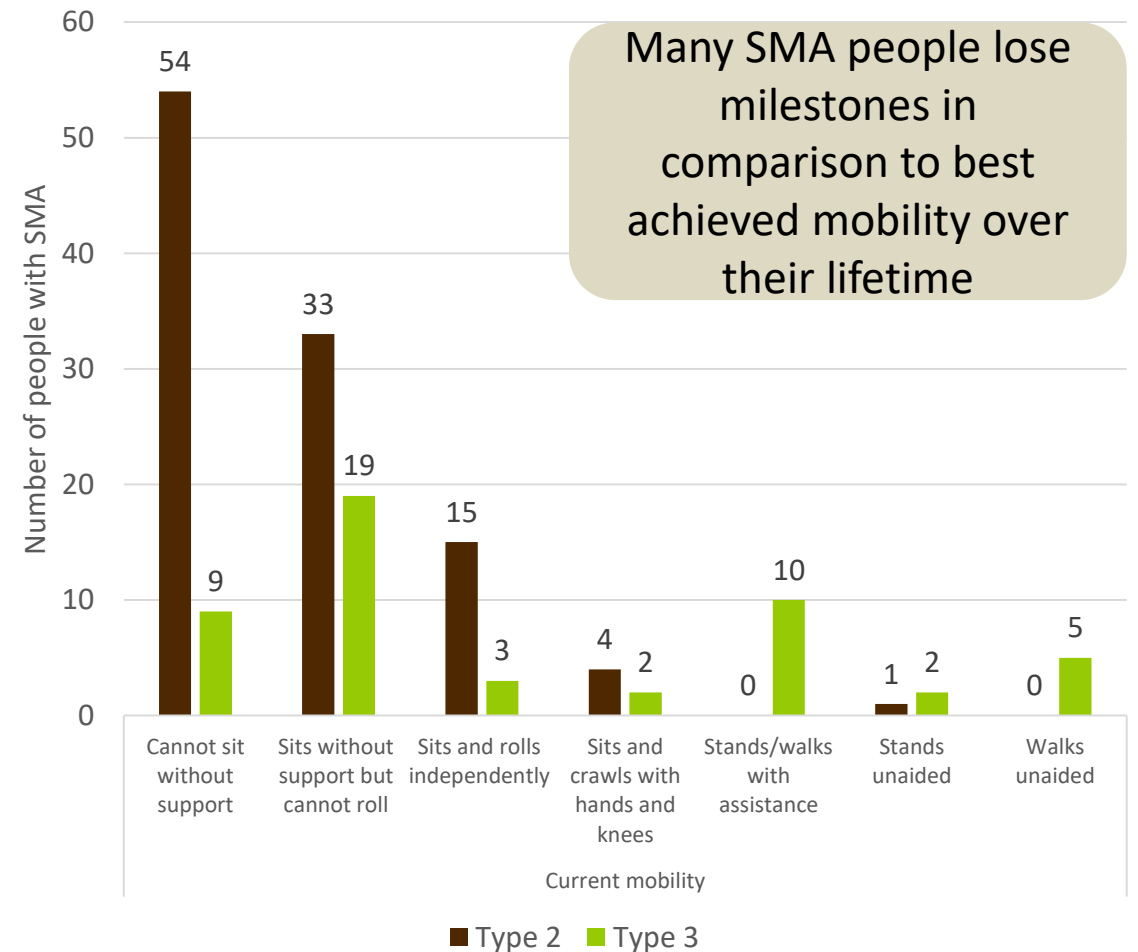
Mobility of people with SMA deteriorates over time



What is the best achieved lifetime mobility state achieved by the person with SMA?



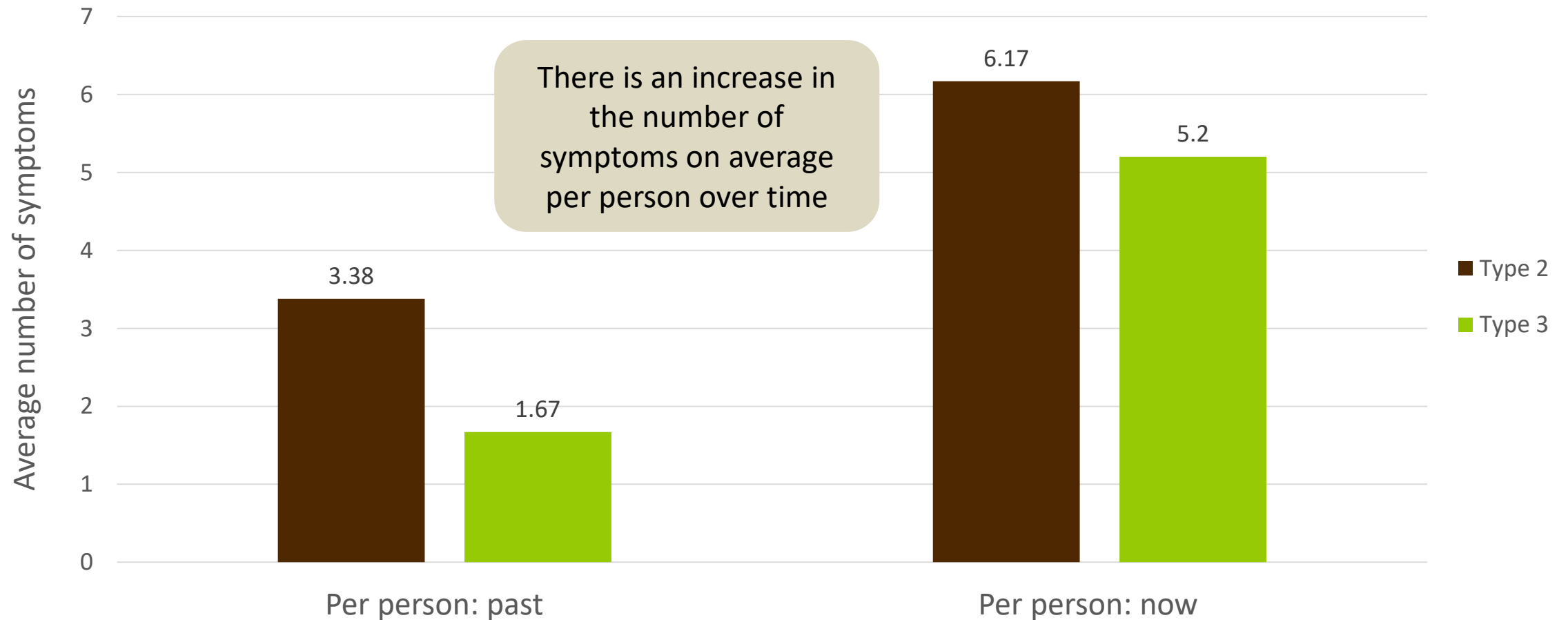
What is the current mobility state achieved by the person with SMA?



Data is from Survey B in which 28 patients were treated with nusinersen, but no information was gathered on disease duration and duration of treatment, therefore type 1 patients have been excluded from this overview on deterioration of mobility

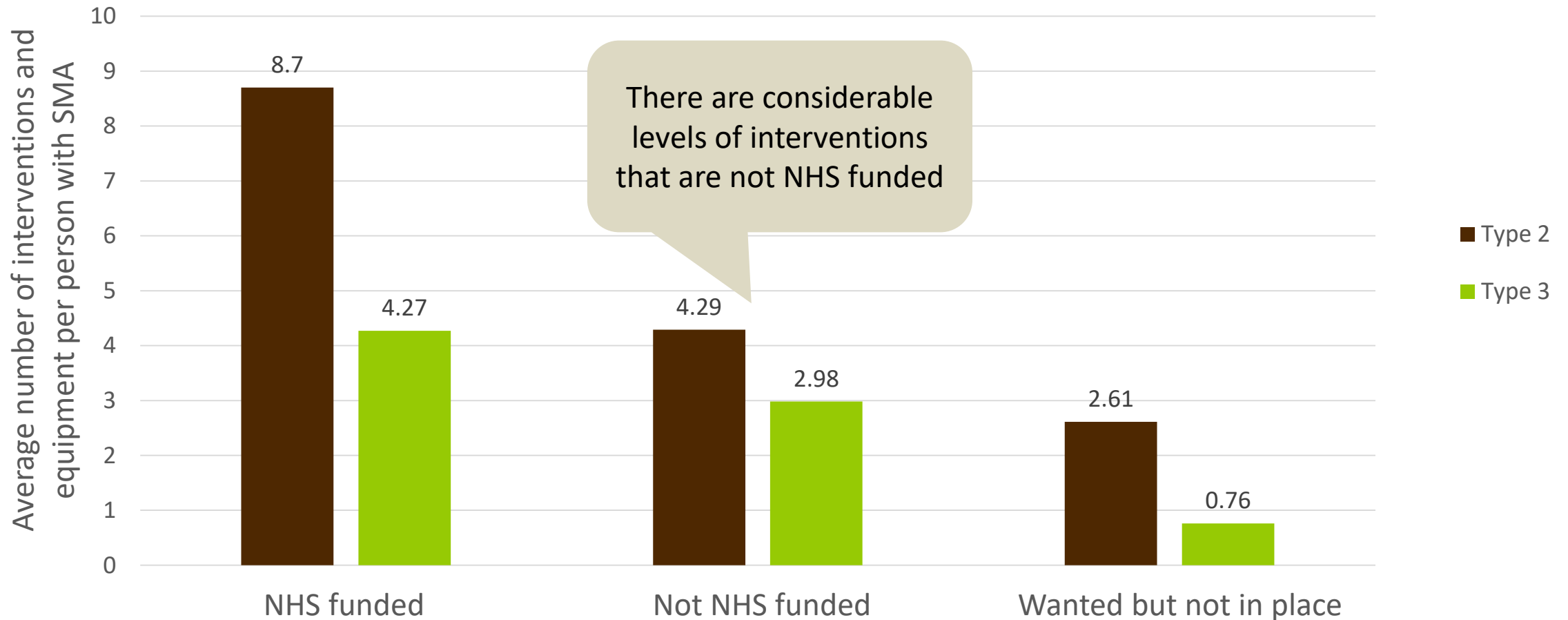
Over time, the number of symptoms experienced by people with SMA appears to increase

How many additional symptoms per person with SMA?



People with SMA have high levels of need for specialist equipment and health interventions

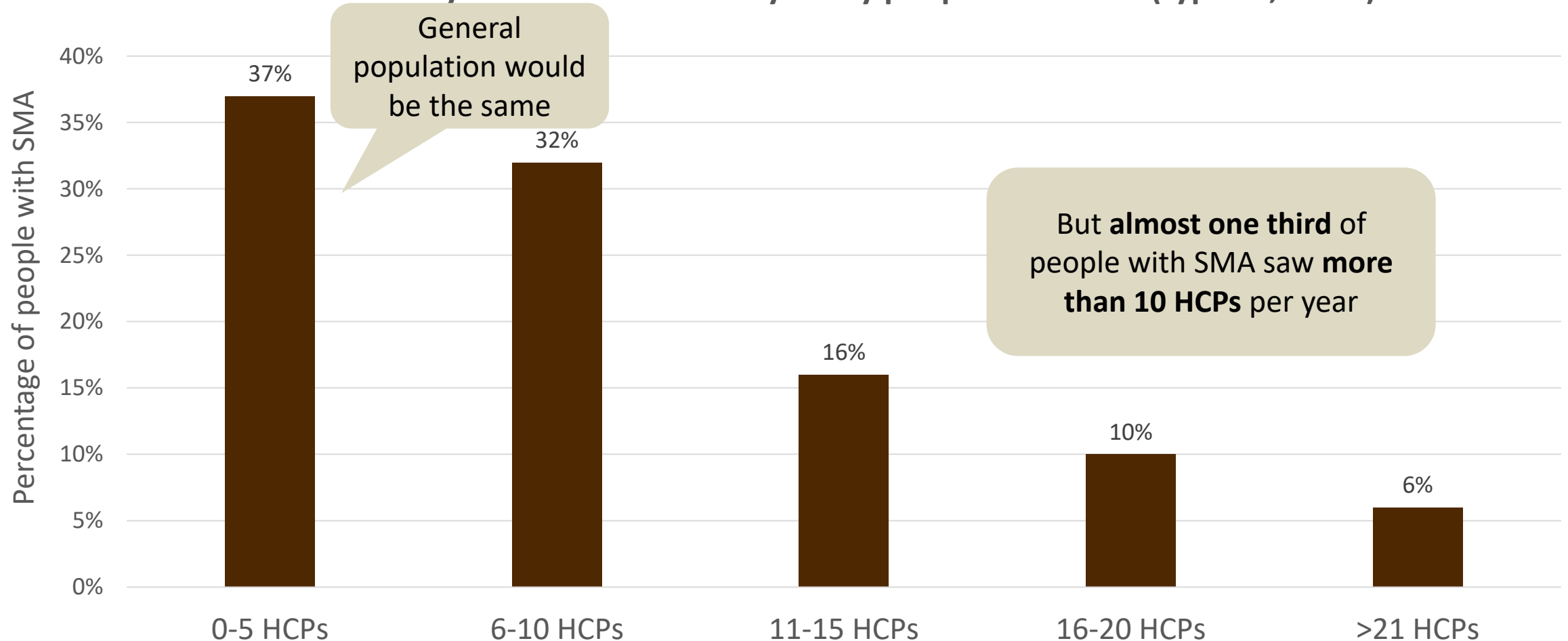
How many interventions and what amount of equipment does the person with SMA have currently?



Many people (with SMA types 1, 2 & 3) see a high number of Health Care Professionals (HCPs) each year



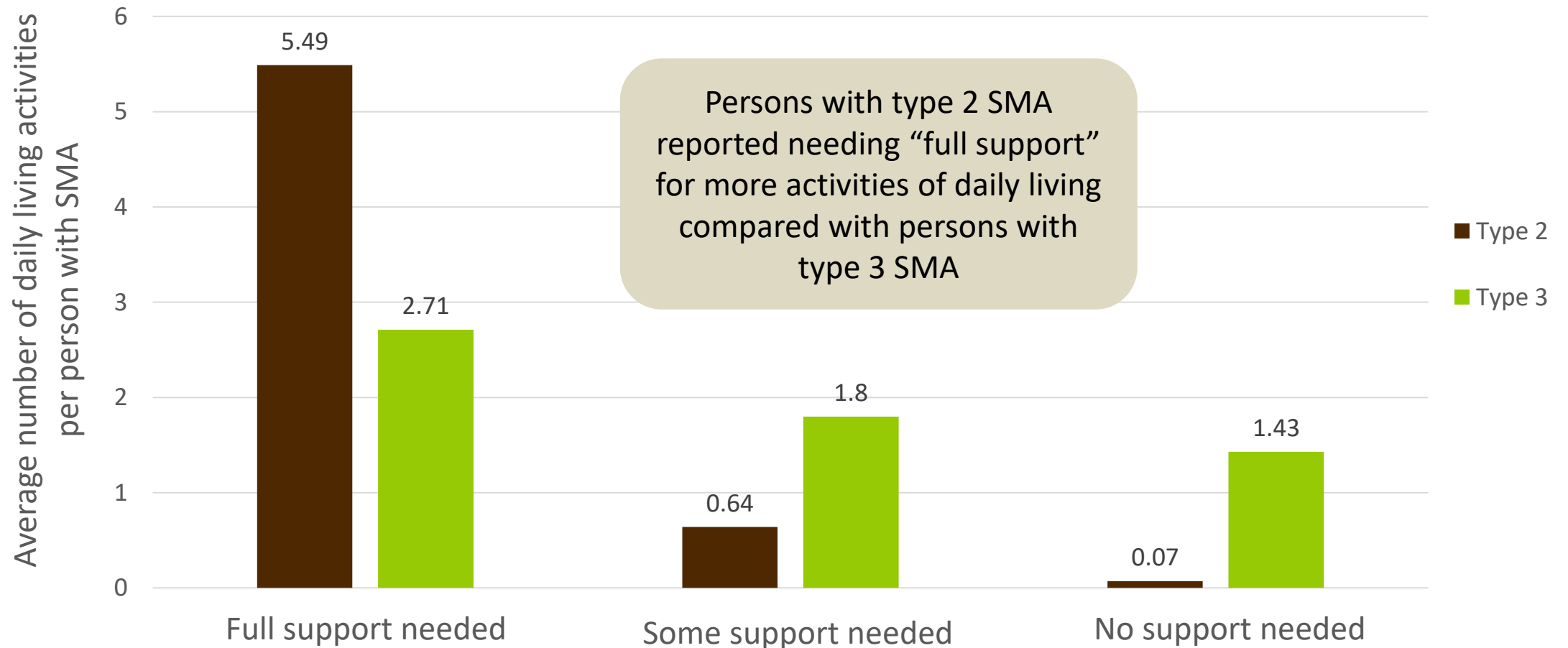
How many HCPs are seen each year by people with SMA (types 1, 2 & 3)?



People with SMA often require “full support” with daily living activities, such as washing, dressing and preparing meals



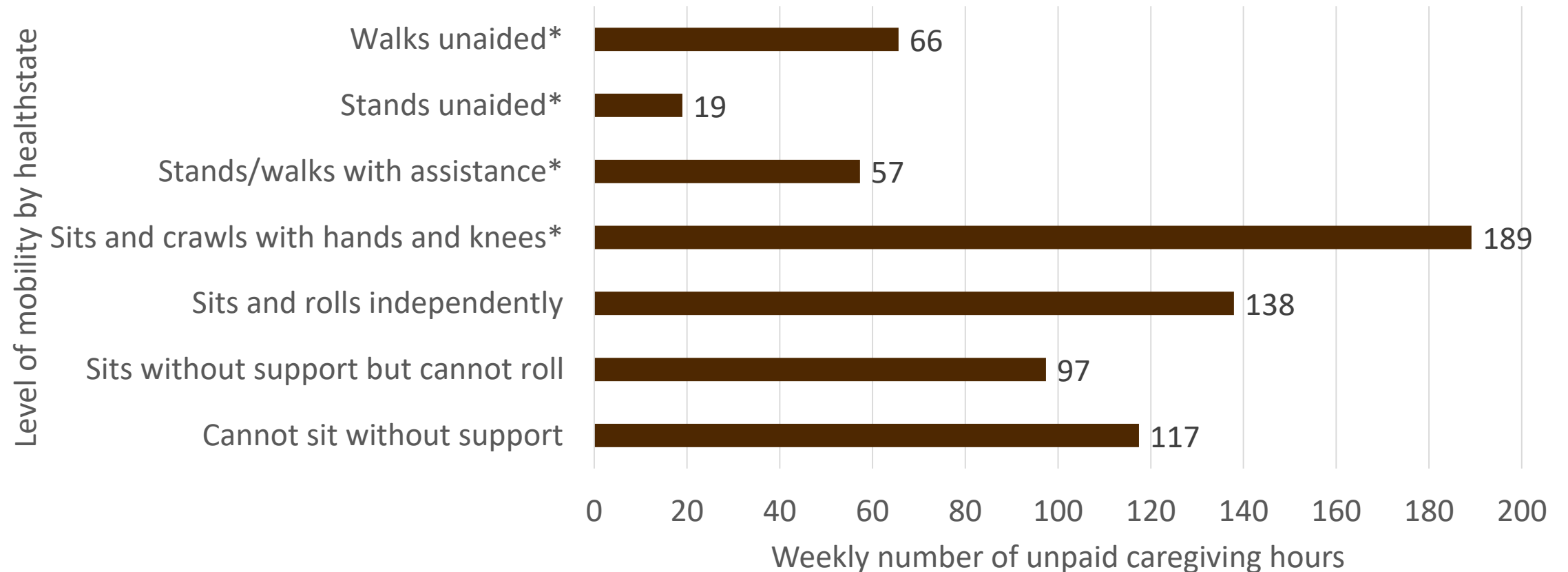
What level of support do daily living activities require?



The total number of caregiver hours per SMA person per week can be considerable



What is the average number of unpaid caregiving hours per person with SMA?

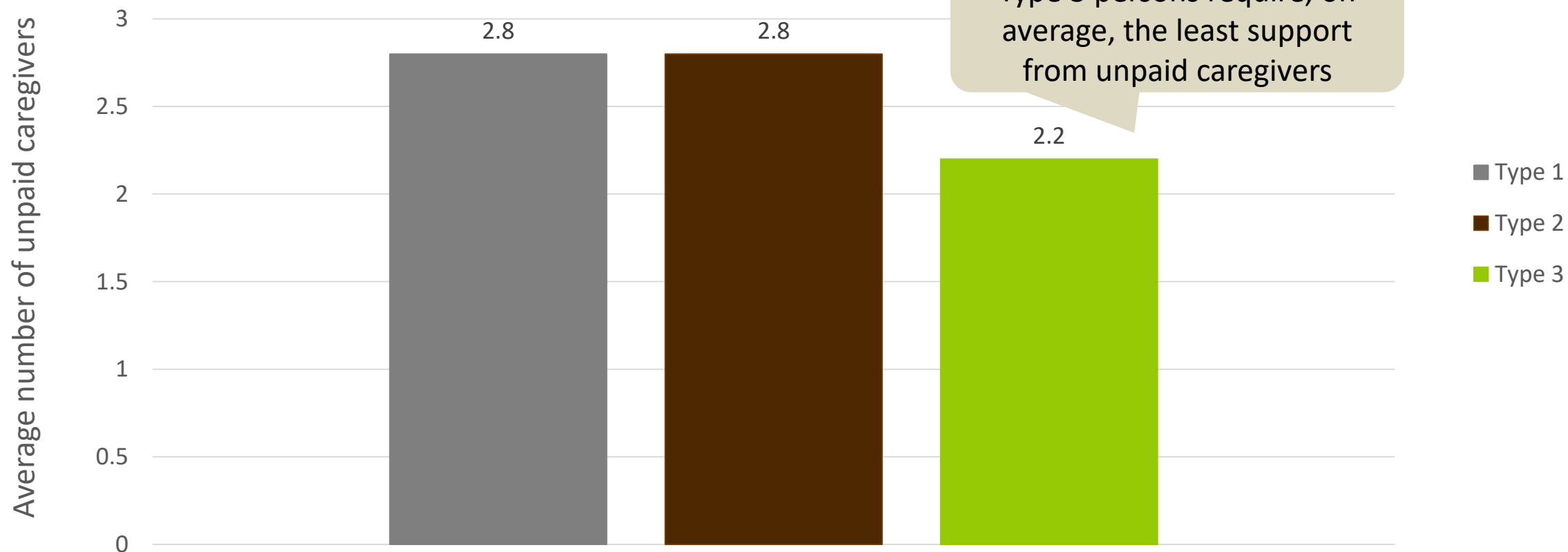


*Please interpret these results with caution due to low sample size (≤ 10)

On average, almost three unpaid caregivers provide some support to each person who has SMA



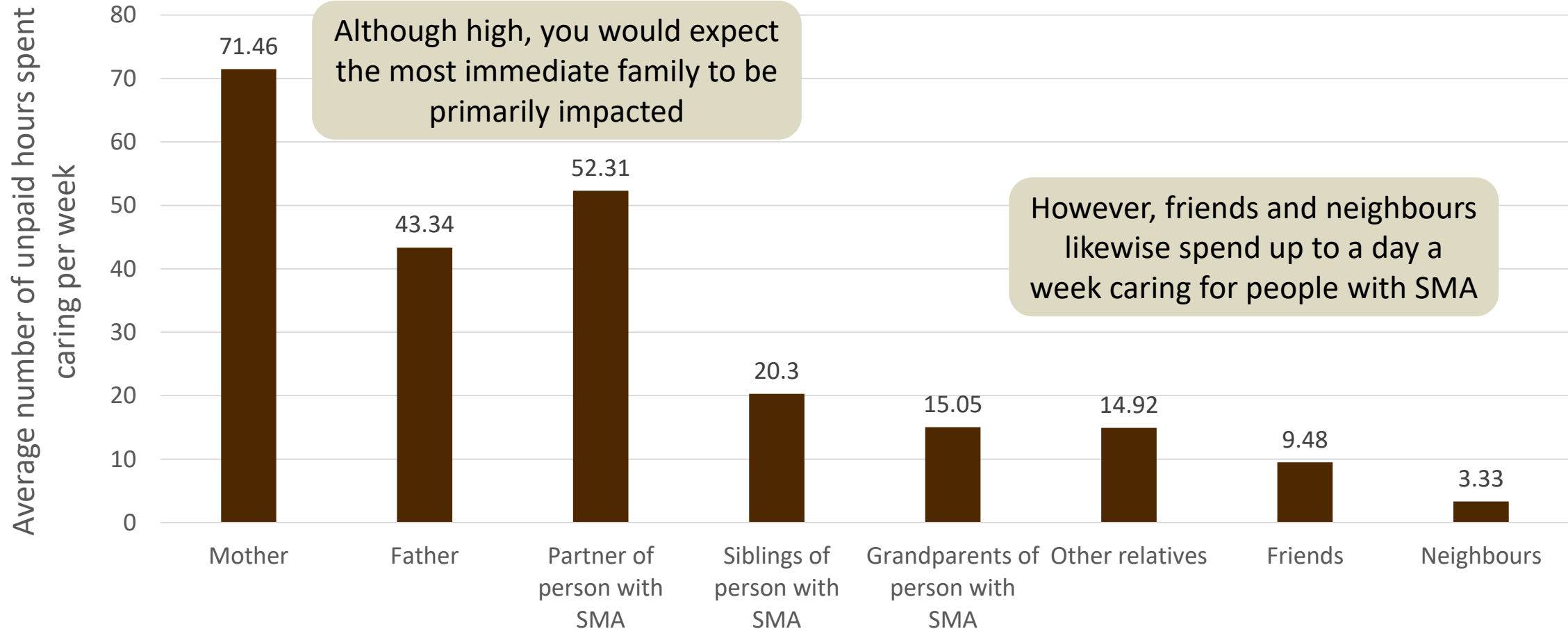
On average how many unpaid caregivers provide support to each person with SMA?



A wide range of unpaid caregivers give support to people with SMA each week



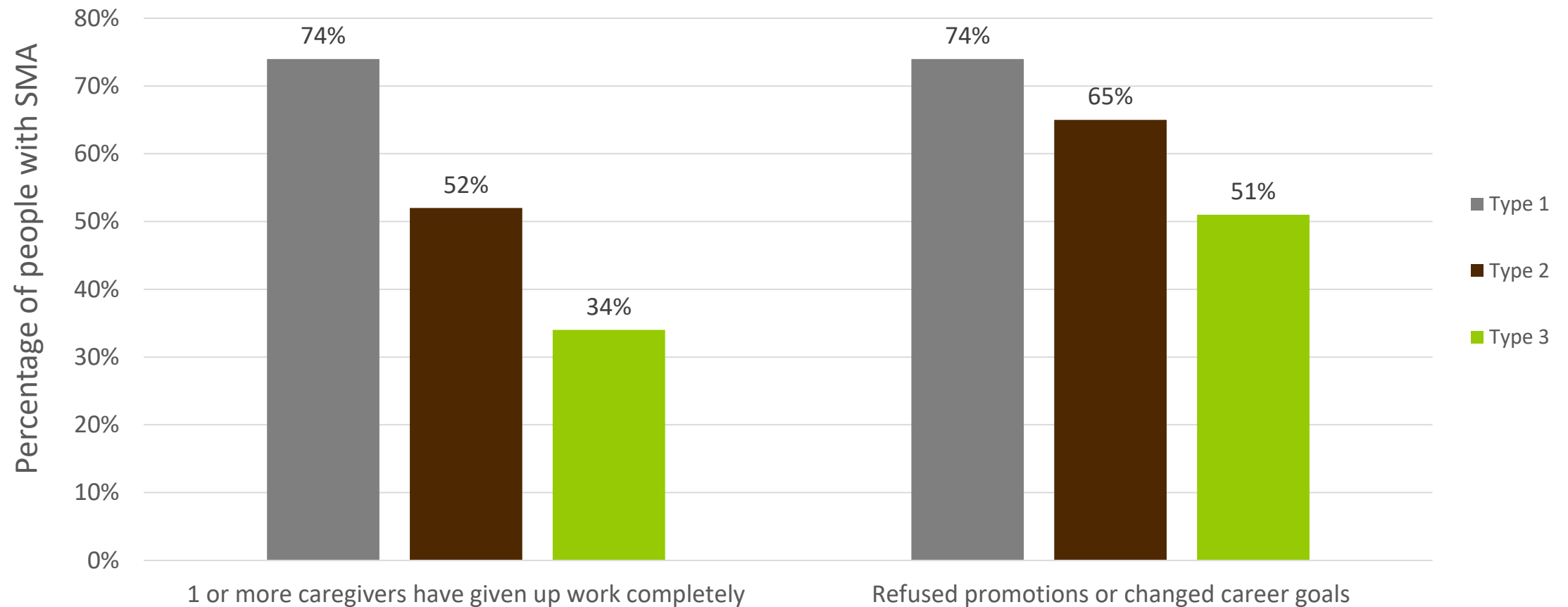
On average, how many hours does each group of unpaid caregivers spend per week caring for the person with SMA?



Caring for people with SMA has a major impact on caregivers' jobs and careers



What impact does caring for a person with SMA have on unpaid caregiver's jobs and career progression?



Estimates indicate that SMA places a substantial financial burden on society



- Survey B estimated the average annual cost for loss of productivity per unpaid caregiver at £14,350 based on reducing their hours by 25 hours per week.
- Survey B found the mean annual out of pocket (OOP) costs incurred for health materials and travel and accommodation (associated appointment costs and hospital stays) per SMA person were on average £8,025.
 - This did not include any cost of care that may be paid for by caregivers or SMA persons as this information was not collected.
- From Survey A we conclude that, on average, an SMA person impacts the NHS £49,723 in direct costs annually. Direct costs include interventions, drugs, equipment and formal care.
 - Costs were calculated using the human capital approach linked back to interventions and HCP engagement
 - Admissions and high-dependency units were not included in this