Health Insurance Literacy in Acid Sphingomyelinase Deficiency (ASMD)

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Background

- With the recent FDA approval of olipudase alfa for acid sphingomyelinase deficiency (ASMD) in adult in pediatric patients, there is an urgent need for the community to understand their health insurance benefits for optimal utilization
- Through this research, the National Niemann-Pick Disease Foundation (NNPDF) sought to understand the health insurance literacy among the community and the burdens faced by families as they attempted to access desired care, services, medications, medical equipment, and assistive devices
- While the outcomes of this research were used by NNPDF to design programs and inform various other workstreams intended to assist ASMD families, only
 the results regarding health insurance literacy are addressed here

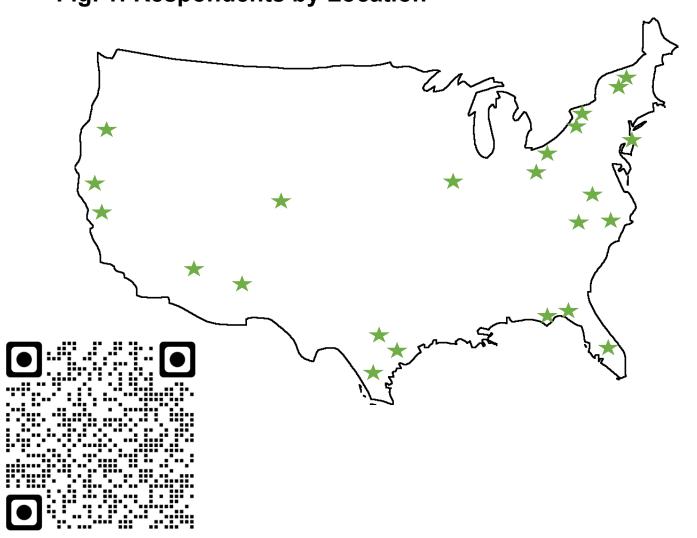
Objectives

- To better understand health insurance literacy and healthcare coverage situations for patients and families
- To better understand patient experience in Niemann-Pick disease as it pertains to access various healthcare services
- To create a baseline dataset to benchmark future progress, academic publications, and family programming

Methods

- 1. Twenty-three (23) participants who were diagnosed with ASMD or their caregiver participated in the study, with broad representation across the United States (Figure 1)
- 2. Participants were provided ten questions previously utilized by the Kaiser Family Foundation (KFF) to capture the understanding of health-insurance related questions and calculations by consumers in the United States ¹ (Figure 2)
- 3. Results of the total percentage of participants who provided the correct answer were compared to the results of the general population, provided by KFF¹
- 4. After the quiz, participants were also asked to self-rate their knowledge in terms of health insurance and general components of health insurance literacy, including information seeking, document literacy, and cognitive skills (Figure 3)

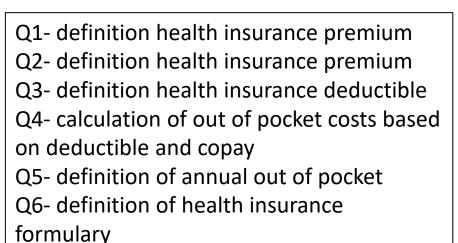
Fig. 1: Respondents by Location



Results

- On average, participants scored higher (average of 63%) than the general population sampled by KFF (average of 58%) (Figure 4)
- The most significant difference between KFF and our participants was on Q9, a calculation of out-of-pocket costs in- versus out-of-network, potentially reflecting the community's frequent involvement procuring coverage for out-of-network care
- The NNPDF participants most frequently missed questions 4, 6, and 8, which related to;
 - -Out of pocket costs based on deductible and co-pay
 - -The definition of a health insurance formulary
 - -Whether inpatient care at a hospital in a certain network would mean all doctors in the hospital are considered in-network
- After the quiz, participants rated themselves highest in information seeking (72/100) compared to document literacy (70/100) and cognitive skills (67/100)

Fig. 2: Questions Summary from KFF



Q7- definition of provider network

Q8- true/false re: provider network

Q9- calculation of out of pocket costs based on in / out of network Q10- true/false re: appeals

Fig. 3: Components of Health Insurance Literacy



12 multiple choice and T/F questions
Scores as a percent (x/12)

Items rated 1-10
Scores added up and divided by number of items (4)

Information

Seeking: Self-

Rating

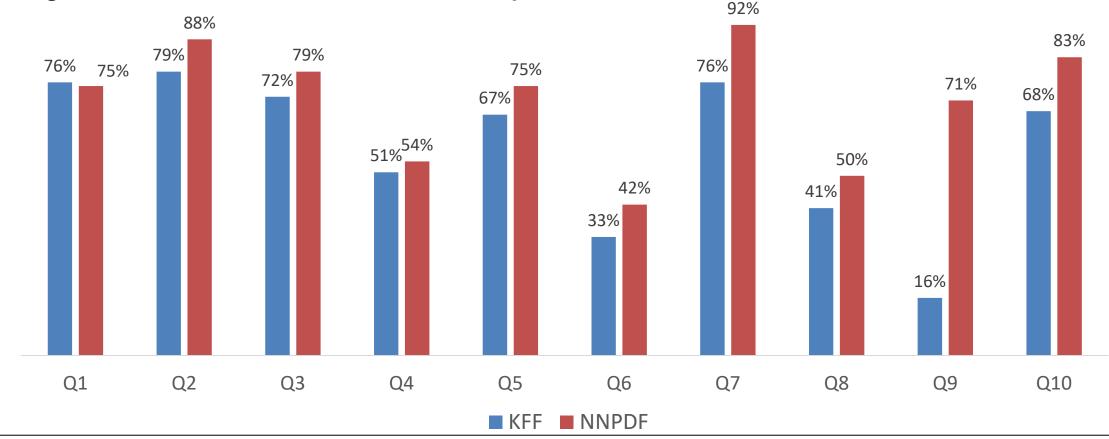
Document Literacy: Self-Rating

Items rated 1-10
Scores added up and divided by number of items (5) Items rated 1-10
Scores added up and divided by number of items (6)

Self-Rating

Cognitive Skills:

Fig. 4: Quiz Scores for KFF vs. NNPDF Respondents





Summary: Results from this study highlighted unique opportunities for patient support organizations such as the NNPDF to prepare their communities for specific issues to support healthcare access and understanding the out-of-pocket cost associated with new treatment options, in order to optimize access to new therapies. The results were utilized as a benchmark for future family programming initiatives