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- If using any information presented with a citation, please reference the primary source.

REINS Patient Representative Membership and Activities

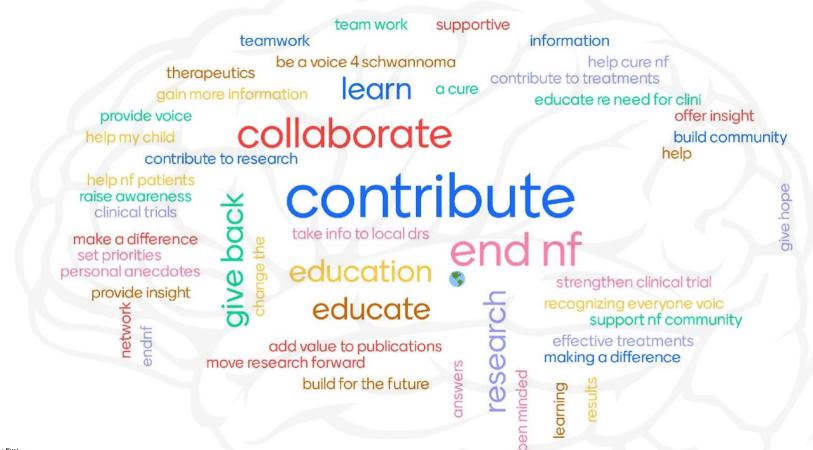
Vanessa Merker, PhD on behalf of the REiNS Patient Representative Working Group



 $R_{esponse} E_{valuation} I_n N_{eurofibromatosis} S_{chwannomatosis} \\ INTERNATIONAL COLLABORATION$

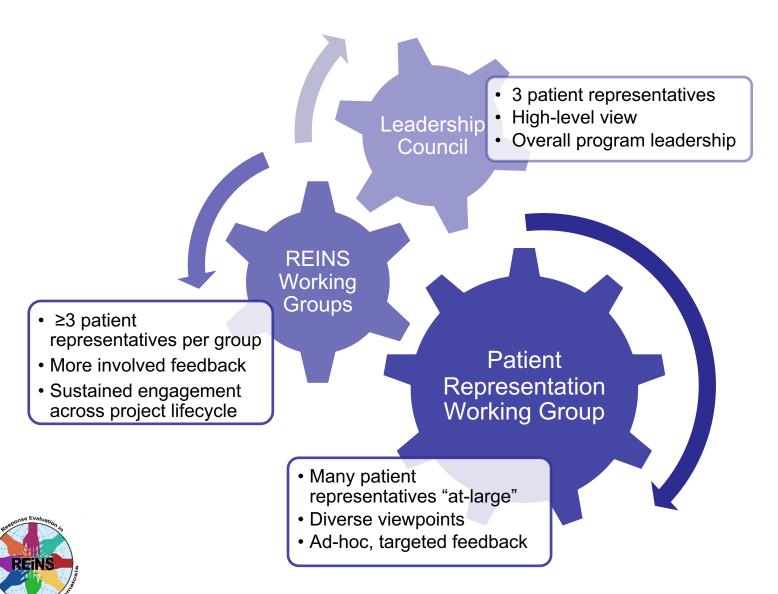
June 2022

What do you hope to accomplish by being a REINS patient representative?

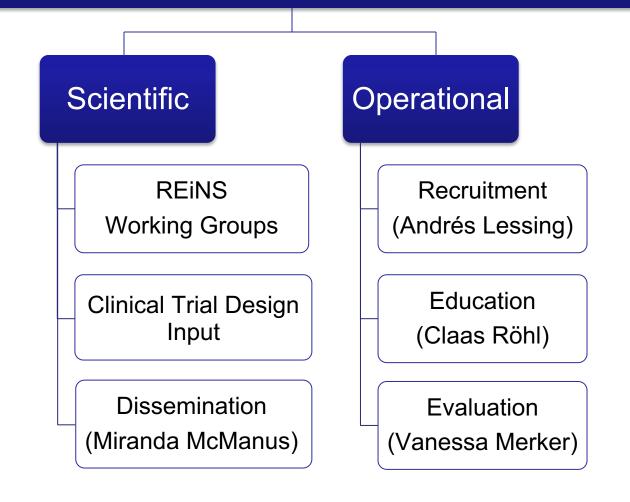




Patient Engagement in REiNS



REINS Patient Representative Working Group Researcher Chair: Vanessa Merker Patient Representative Co-Chairs: Andrés Lessing, Claas Röhl



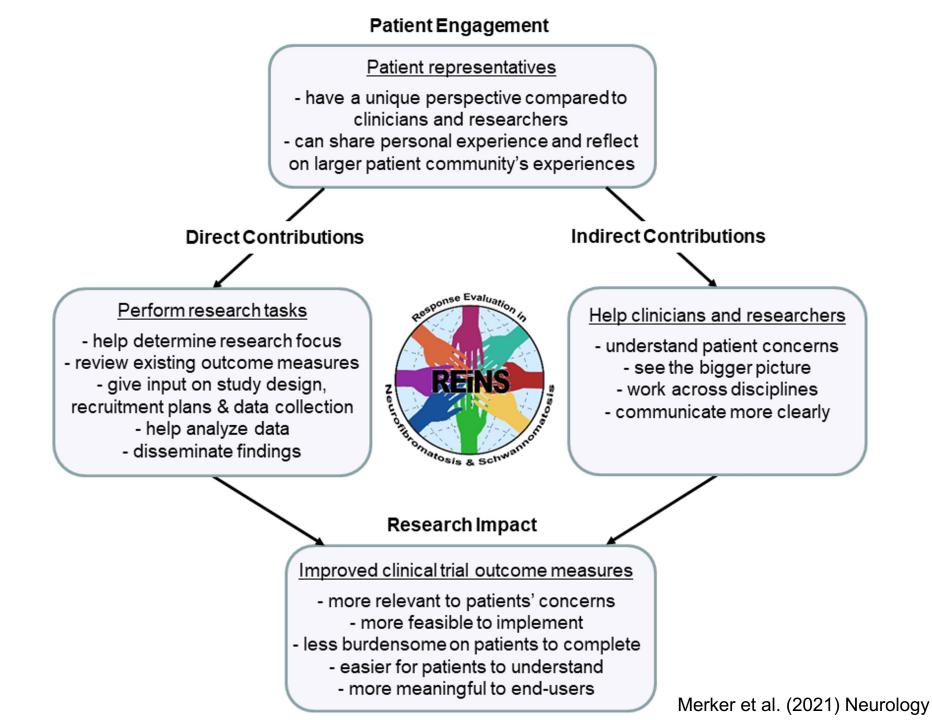


Recruitment Updates

- Current membership: 55 representatives
 - From the US, Canada, UK, France, The Netherlands, Austria, Belgium, Denmark, & Australia
 - 42% people with NF/SWN, 58% family members/caregivers of someone with NF/SWN
 - 65.5% NF1, 25.5% NF2, 9% SWN
- Alternating meeting times and record meetings to facilitate participation across time zones
 - Second Saturday, 1-2pm ET
 - Second Wednesday, 7-8pm ET







Patient Representative Feedback on Research Studies

Disfigurement rating scale (Observers & Patients)

Survey on communication difficulties

Survey on sleep

NF1: Plexiform neurofibroma trial

MPNST triple combination drug trial

MR-HiFU Trial for Atypical Neurofibromas

Study of MEK inhibitors' effect on bone

NF2: Adding qualitative interviews to platform trial

SWN: Platform trial for pain



Vision restoration/vision preservation therapies

To present your NF research, email <u>vmerker@mgh.harvard.edu</u>. Open to all; REiNS participation not required.

Patient Representative Feedback on Research Studies

- 20 projects presented as of 8/2023
 - 14 NF1, 2 NF2, 2 SWN, and 2 applicable to all
- Clinical Trial Design
 - Secondary prevention for plexiform neurofibromas
 - MR-HiFU for Atypical Neurofibromas
 - MPNST triple combination therapy
 - NF2 hearing loss prevention
 - Platform trial for schwannomatosis pain
- Input on other studies (natural history, clinical outcome development studies, etc.)



Feedback on surveys, PROs, and other patient-facing materials

How to Join REiNS

We always accept new members on an ad-hoc basis. We also run targeted rounds of recruitment every few years to onboard larger cohorts of diverse patient representatives simultaneously.

To join or refer a new member, email vmerker@mgh.harvard.edu

Onboarding steps:

- Fill out brief online application
- Get matched to a current patient representative 'mentor'
- Review brief training materials to get oriented



Learn About Being An NF Patient Representative





Next Steps

- Finish patient representative survey to update membership rolls & decide when/how to target next recruitment round
- Dissemination updates
- Increase feedback on research studies
 - Solicit more presenters
 - Develop presentation template and feedback forms
 - Conduct follow-up evaluation of patient representative program





Patient Representative Group





Disseminating REiNS Recommendations

Miranda McManus, MS on behalf of the REiNS Patient Representative Dissemination subcommittee



Response Evaluation In Neurofibromatosis Schwannomatosis INTERNATIONAL COLLABORATION

Dissemination updates

- Re-organization of the publication information on the REiNS website
- Development of 2-3 sentence summaries for all REiNS papers
- Creation of the REiNS Recommendations Toolbox
 - Advertising the Toolbox at this year's NF Conference





REiNS International Collaboration

Dashboard / Home > Publications

Home	
Working Groups	REINS Publications
Presentations	REINS has published recommendations in three supplements in the journal Neurology. Click these links to access the full supplements:
Publications	Supplement I (2013)
Recommendations	Supplement II (2016) Supplement III (2021)
News & Meetings	Below is a list of the articles published in these supplements organized by topic. Click each topic to jump to the articles:
Patient Representation	
	About REINS
FDA Interactions	Biomarkers
	Cutaneous Neurofibromas
Member Info	Functional Outcomes
Support	Imaging
	Neurocognitive Outcomes
	Patient Engagement
Photo Gallery	Patient-Reported Outcomes
For Members Only	NF1—Neurofibromatosis type 1
	NF2—NF2-related schwannomatosis (formerly called neurofibromatosis type 2)
Resources Evaluation 5	SWN — <i>SMARCB1</i> -related schwannomatosis, <i>LZTR1</i> -related schwannomatosis, 22q-related schwannomatosis, schwannomatosis-NOS (not otherwise specified), or schwannomatosis-NEC (not elsewhere classified)

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Log in

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REiNS International Collaboration

Dashboard / Home > Publications

Home	About REiNS					
Working Groups	Achieving consensus for clinical trials: The REINS International Collaboration					
Working Groups	Plotkin SR, Blakeley JO, Dombi E, Fisher MJ, Hanemann CO, Walsh KS, Wolters PL, Widemann BC. Achieving consensus for clinical trials:					
Presentations	the REiNS International Collaboration. <i>Neurology</i> . 2013;81(21 Suppl 1):S1-5; doi:10.1212/01.wnl.0000435743.49414.b6 Most early NF clinical trials used study designs similar to those used in cancer trials; however, because of differences in disease symptoms and tumor					
Publications	growth compared to solid cancers, there is a need for new designs that are better suited to NF. The Response Evaluation in Neurofibromatosis and Schwannomatosis (REiNS) International Collaboration was established in 2011 to reach agreement within the NF community about the design of future trials, with an emphasis on measures of response to treatment, also known as endpoints. This paper is an introduction to the first REiNS supplement published in 2013, which includes the first series of recommendations by the REiNS Collaboration.					
Recommendations						
	Abstract Full Text (Web) Full Text (PDF) NF1 NF2 SWN					
News & Meetings						
	Conclusions and future directions for the REINS International Collaboration					
Patient Representation	Widemann BC, Blakeley JO, Dombi E, Fisher MJ, Hanemann CO, Walsh KS, Wolters PL, Plotkin SR. Conclusions and future directions for the REiNS International Collaboration. <i>Neurology</i> . 2013;81(21 Suppl 1):S41-4; doi:10.1212/01.wnl.0000435748.79908.c5					
FDA Interactions	This paper is the conclusion to the first REiNS supplement published in 2013. It summarizes the first series of recommendations, addresses how they should be used in the context of NF clinical trials, and discusses future recommendations under development.					
Member Info	Abstract Full Text (Web) Full Text (PDF) NF1 NF2 SWN					
Support	Consensus for NF clinical trials: Recommendations of the REiNS collaboration (Supplement II)					
	Widemann BC, Plotkin SR. Consensus for NF clinical trials: Recommendations of the REiNS collaboration (Supplement II). Neurology. 2016;87(7					
Photo Gallery	Supplement 1):S1-S3; doi:10.1212/WNL.0000000002930					
	This paper is an introduction to the second REiNS supplement published in 2016, which provides an update on clinical trials that have used the recommended measures from the first supplement. It also summarizes new recommendations for additional measures of response to treatment					
For Members Only	(endpoints) included in the rest of the supplement.					
	Abstract Full Text (Web) Full Text (PDF) NF1 NF2 SWN					



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Wolters et al. (2013) Patient-reported outcomes in neurofibromatosis and schwannomatosis clinical trials.

REiNS developed a systematic process to rate existing patient-reported outcomes for use in NF clinical trials. Using this process, they reviewed measures of pain intensity and recommended using the NRS-11, a 0-10 pain scale.

Cannon et al. (2021) Perspectives of Adults with Neurofibromatosis 1 and Cutaneous Neurofibromas.

This paper presents a survey exploring the experiences of NF1 adults with cutaneous neurofibromas, taking into account tumor location, size, color, pain, and itchiness. The survey also asked patients' opinions about treatment options, what would be considered a successful treatment, and what side effects would be acceptable.





REiNS International Collaboration

Dashboard / Home > Recommendations

Home	REiNS Recommen	ndations					
Working Groups							
Presentations	This table provides a summary of all current REiNS consensus recommendations for neurofibromatosis and schwannomatosis clinical trials. The peer-reviewed REiNS publications that discuss each of these recommendations are linked from the table. There are also links to each of the recommended outcome measures and/or to the relevant subsections of each paper.						
Publications		Clinical Trial Endpoint or Domain (full paper	Recommended Primary Measure(s) or Key Points	Recommended Secondary/Exploratory			
Recommendations		linked)		Measure(s)			
News & Meetings	Biomarkers	Clinical annotation	Minimal clinical dataset (Table 2)	Recommendations for sample collection and methodology			
Patient Representation		Cutaneous neurofibroma (cNF)	 Recommended sample collection for cNF trials Recommended annotation for cNF biopsy samples (Table 2) 				
DA Interactions		Genotype-phenotype correlation	• NF1—suggested that individuals with mutations p.Met992del and p.Arg1809Cys not be				
/lember Info		correlation	included in natural history studies or clinical trials investigating plexiform neurofibromas				
Support			NF2—genetic severity score				
	Functional Outcomes	Hearing	Maximum word recognition score (WRS) (Table 2)	• Pure-tone average (PTA)			
Photo Gallery		Facial function	Scaled Measurement of Improvement in Lip Excursion (SMILE) analysis	House-Brackmann scale			
or Members Only			 Download FACEGRAM app (must be a member of the Sir Charles Bell Society) 				







REiNS Working Groups:

- Patient Reported Outcomes
- Functional Outcomes
- Imaging
- Visual Outcomes
- Neurocognitive Outcomes
- Disease Biomarkers
- Cutaneous Neurofibromas
- Patient Representatives
- Gene-Targeted Therapy

REiNS International Collaboration

Interested in helping the NF community reach consensus on outcome measures for clinical trials? Join REiNS! Email <u>reinscollaboration@gmail.com</u> for more info. ALL ARE WELCOME!

Check out our NEW TOOLBOX to access all the REiNS recommendations in one place! <u>https://bit.ly/REiNSrec</u>





Future plans

- Papers from the upcoming REiNS supplement
- More extensive plain language summaries
 - Exploring the use of ChatGPT to expedite this process
 - Also exploring graphical abstracts
- Exploring ways to make it easier to update the website
 - Thanks to Pam Wolters for all of your help and putting up with us!!
 - Embedded files like Google Drive?



REiNS Dissemination subcommittee

- Miranda McManus, chair
- Andrea Gross
- Beverly Oberlander
- Diana Haberkamp
- Lara Mukabenov
- Madalyn Gibson-Williams
- Sharon Loftspring
- Steven Sheard
- Shannon Weaver
- Vanessa Merker



