1. Introduction & Consent Form

Thank you for participating in our survey! Your answers are confidential, and extremely helpful in our research. If you have any questions, please contact us at hyperppsurvey@gmail.com

TITLE OF RESEARCH STUDY:

Title: Hyperkalemic Periodic Paralysis Survey

PRINCIPAL INVESTIGATOR (HEAD RESEARCHER) NAME AND CONTACT INFORMATION:

Name: Jacob Levitt, MD, FAAD

Physical Address: 5 East 98th Street, Fifth Floor, Box 1048, New York, NY 10023 Mailing Address: 5 East 98th Street, Fifth Floor, Box 1048, New York, NY 10023

Phone: (914) 661-1726

WHAT IS A RESEARCH STUDY?

A research study is when scientists try to answer a question about something that we don't know enough about. Participating may not help you or others.

People volunteer to be in a research study. The decision about whether or not to take part is totally up to you. You can also agree to take part now and later change your mind. Whatever you decide is okay. It will not affect your ability to get medical care at Mount Sinai.

Someone will explain this research study to you. Feel free to ask all the questions you want before you decide. Any new information that develops during this research study which might make you change your mind about participating will be given to you promptly.

PURPOSE OF THIS RESEARCH STUDY:

The purpose of this study is to understand more accurately about hyperkalemic periodic paralysis. While the science behind why people get periodic paralysis has become clearer in recent years, there is a lot of information we still do not know about the disease itself. This lack of knowledge results from our inability to collect information about the disease from a lot of people with the disease all at one time. We hope to collect the experiences of many people with hyperkalemic periodic paralysis to find out more about this condition. Specifically, we wish to know if there are other common diseases that people get together with periodic paralysis, what treatments work best for people, what treatments perhaps harm people, what strategies might help reverse or prevent an attack of weakness (such as what foods to eat and when to eat them), if periodic paralysis results in disability for people, difficulties in obtaining a diagnosis, unrecognized triggers and symptoms, and experiences with anesthesia and pregnancy.

You may qualify to take part in this research study because you are diagnosed with hyperkalemic periodic paralysis by genetic testing. If you are a member of the Periodic Paralysis Association, your membership will not be affected by your participation or lack of participation.

Funds for conducting this research are provided by Mount Sinai School of Medicine.

LENGTH OF TIME AND NUMBER OF PEOPLE EXPECTED TO PARTICIPATE

Your participation in this research study is expected to last about one hour (or however long it takes you to complete the survey). The survey need not be completed in one sitting.

The number of people expected to take part in this research study at this site is about 30.

DESCRIPTION OF WHAT'S INVOLVED:

If you agree to participate in this research study, the following information describes what may be involved.

- You will be asked to complete a detailed survey about your general health as it pertains to your hyperkalemic periodic paralysis. This is part of the research study and not part of your general health care.
- You may receive a phone call to clarify the results you submit from one of the three investigators on the study. We hope to limit these interactions to a minimum out of respect for your time.
- The survey will be administered online through Survey Monkey, an online survey program. Data analysis will occur at The Mount Sinai School of Medicine.
- The research will be conducted through the months of July, August, and September, and results analyzed in the following two months after that. We hope to have preliminary results by the PPA Bienniel Conference in November, 2011.

*1. By selecting "I agree," you are consenting to the above and indicating that you would like to continue.

C l agree

O I do not agree

2.

3. Consent Form - Page 2

YOUR RESPONSIBILITIES IF YOU TAKE PART IN THIS RESEARCH:

If you decide to take part in this research study you will be responsible for completing the survey in its entirety in a timely manner (we hope within one month of beginning the survey). One reason for delay might be that you request medical information from an old provider to be able to answer questions more accurately.

COSTS OR PAYMENTS THAT MAY RESULT FROM PARTICIPATION:

This research will result in no cost to you. You will not be paid to participate in this study.

POSSIBLE BENEFITS:

It is important to know that you may not get any benefit from taking part in this research. Others may not benefit either. However, possible benefits may be better clarification of your disease and general health, which may enable you to explain your condition better to health care providers. You may also bring to light harmful or beneficial trends in your lifestyle as part of completing this survey. Others may benefit from this survey by sharing of successful management tips and validating life experiences that others may have thought were unique to themselves alone. Better defining the disease will allow doctors to diagnose and treat the disease more efficiently as well as defend disability claims more easily when warranted.

REASONABLY FORESEEABLE RISKS AND DISCOMFORTS:

Risks of this survey study are minimal. There always exists the potential for loss of private information; however, there are procedures in place to minimize this risk.

OTHER POSSIBLE OPTIONS TO CONSIDER:

You may decide not to take part in this research study without any penalty. The choice is totally up to you.

IN CASE OF INJURY DURING THIS RESEARCH STUDY:

If you believe that you have suffered an injury related to this research as a participant in this study, you should contact the Principal Investigator.

ENDING PARTICIPATION IN THE RESEARCH STUDY:

You may stop taking part in this research study at any time without any penalty. This will not affect your ability to receive medical care at Mount Sinai or to receive any benefits to which you are otherwise entitled.

If you decide to stop being in the research study, please contact the Principal Investigator or the research staff. At that point, we will exclude your data from the data analyses. No new information will be collected from you.

You may also withdraw your permission for the use and disclosure of any of your protected information for research, but you must do so in writing to the Principal Investigator at the address on the first page. Even if you withdraw your permission, the Principal Investigator for the research study may still use the information that was already collected if that information is necessary to complete the research study. Your health information may still be used or shared after you withdraw your authorization if you should have an adverse event (a bad effect) from participating in the research study.

Withdrawal without your consent: The study doctor or the institution may stop your involvement in this research study at any time without your consent. This may be because the research study is being stopped, the instructions of the study

team have not been followed, the investigator believes it is in your best interest, or for any other reason. If specimens or data have been stored as part of the research study, they too can be destroyed without your consent.

*1. By selecting "I agree," you are consenting to the above and indicating that you would like to continue.

O I agree

O I do not agree

4. Consent Form - Page 3

CONTACT PERSON(S):

If you have any questions, concerns, or complaints at any time about this research, or you think the research has hurt you, please contact the office of the research team and/or the Principal Investigator at phone number (914) 661-1726. This research has been reviewed and approved by an Institutional Review Board. You may reach a representative of the Program for Protection of Human Subjects at Mount Sinai School of Medicine at telephone number (212) 824-8200 during standard work hours for any of the following reasons:

- · Your questions, concerns, or complaints are not being answered by the research team.
- · You cannot reach the research team.
- You are not comfortable talking to the research team.
- · You have questions about your rights as a research subject.
- · You want to get information or provide input about this research.

DISCLOSURE OF FINANCIAL INTERESTS:

None.

MAINTAINING CONFIDENTIALITY - HIPAA AUTHORIZATION:

As you take part in this research project it will be necessary for the research team and others to use and share some of your private protected health information. Consistent with the federal Health Insurance Portability and Accountability Act (HIPAA), we are asking your permission to receive, use and share that information.

What protected health information is collected and used in this study, and might also be disclosed (shared) with others? As part of this research project, the researchers will collect your name, email, telephone number, address, and date of birth.

During the study the researchers will gather information by taking a medical history (includes current and past medications or therapies, illnesses, conditions or symptoms, family medical history, allergies, etc.).

Why is your protected health information being used?

Your personal contact information is important to be able to contact you during the study. Your health information and the results of any tests and procedures being collected as part of this research study will be used for the purpose of this study as explained earlier in this consent form. The results of this study could be published or presented at scientific meetings, lectures, or other events, but would not include any information that would let others know who you are, unless you give separate permission to do so.

The research team and other authorized members of The Mount Sinai Hospital and Mount Sinai School of Medicine (together, "Mount Sinai") workforce may use and share your information to ensure that the research meets legal, institutional or accreditation requirements. For example, the Mount Sinai School of Medicine Program for the Protection of Human Subjects is responsible for overseeing research on human subjects, and may need to see your information. If you receive any payments for taking part in this study, the Mount Sinai Medical Center Finance Department may need your name, address, social security number, payment amount, and related information for tax reporting purposes. If the research team uncovers abuse, neglect, or reportable diseases, this information may be disclosed to appropriate authorities.

*1. By selecting "I agree," you are	e consenting to the above	and indicating that	t you would
like to continue.			

C l agree

O I do not agree

5. Consent Form - Page 4

Who, outside Mount Sinai, might receive your protected health information?

In all disclosures outside of Mount Sinai, you will not be identified by name, address, telephone number, or any other direct personal identifier unless disclosure of the direct identifier is required by law. Some records and information disclosed may be identified with a unique code number. The Principal Investigator will ensure that the key to the code will be kept in a locked file, or will be securely stored electronically. The code will not be used to link the information back to you without your permission, unless the law requires it, or rarely if the Institutional Review Board allows it after determining that there would be minimal risk to your privacy. It is possible that a sponsor or their representatives, a data coordinating office, a contract research organization, will come to inspect your records. Even if those records are identifiable when inspected, the information leaving the institution will be stripped of direct identifiers. Additionally, the monitors, auditors, the IRB, the Food and Drug Administration, The United States Department of Health and Human Services, and the Office of

Human Research Protection. will be granted direct access to your medical records for verification of the research procedures and data. By signing this document you are authorizing this access. We may publish the results of this research. However, we will keep your name and other identifying information confidential.

For how long will Mount Sinai be able to use or disclose your protected health information? Your authorization for use of your protected health information for this specific study does not expire.

Will you be able to access your records?

During your participation in this study, you will have access to your medical record and any study information that is part of that record. The investigator is not required to release to you research information that is not part of your medical record.

Do you need to give us permission to obtain, use or share your health information?

NO! If you decide not to let us obtain, use or share your health information you should not sign this form, and you will not be allowed to volunteer in the research study. If you do not sign, it will not affect your treatment, payment or enrollment in any health plans or affect your eligibility for benefits.

*1. By selecting "I agree," you are consenting to the above and indicating that you would like to continue.

O I agree

O I do not agree.

6. Consent Form - Page 5

Can you change your mind?

You may withdraw your permission for the use and disclosure of any of your protected information for research, but you must do so in writing to the Principal Investigator at the address on the first page. Even if you withdraw your permission, the Principal Investigator for the research study may still use your protected information that was already collected if that information is necessary to complete the study. Your health information may still be used or shared after you withdraw

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your authorization if you should have an adverse event (a bad effect) from being in the study. If you withdraw your permission to use your protected health information for research that means you will also be withdrawn from the research study, but standard medical care and any other benefits to which you are entitled will not be affected. You can also tell us you want to withdraw from the research study at any time without canceling the Authorization to use your data. It is important for you to understand that once information is disclosed to others outside Mount Sinai, the information may be re-disclosed and will no longer be covered by the federal privacy protection regulations. However, even if your information will no longer be protected by federal regulations, where possible, Mount Sinai has entered into agreements with those who will receive your information to continue to protect your confidentiality.

If as part of this research project your medical records are being reviewed, or a medical history is being taken, it is possible that HIV-related information may be revealed to the researchers. If that is the case, the information in the following box concerns you. If this research does not involve any review of medical records or questions about your medical history or conditions, then the following section may be ignored.

Notice Concerning HIV-Related Information

If you are authorizing the release of HIV-related information, you should be aware that the recipient(s) is (are) prohibited from re-disclosing any HIV-related information without your authorization unless permitted to do so under federal or state law. You also have a right to request a list of people who may receive or use your HIV-related information without authorization. If you experience discrimination because of the release or disclosure of HIV-related information, you may contact the New York State Division of Human Rights at (212) 480-2522 or the New York City Commission of Human Rights at (212) 306-5070. These agencies are responsible for protecting your rights.

*1. By selecting "I agree," you are consenting to the above and indicating that you would like to continue.

- C I agree
- O I do not agree

7. General Information

1. Please provide an e-mail address at which we may contact you.

<u></u>
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2. Please enter your state/province and country of residence:

State/Province:	
Country:	

3. Please select your year of birth.

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	dic Paralysis Managemen	it .
4. Please select your d	_	
C Hyperkalemic periodic paralysi	s only	
C Hyperkalemic periodic paralys	is with paramyotonia congenita	
Comments		
known but not listed, p	,	amily member. If your mutation is d. If your mutation is not known not proceed with this survey.
	I ways of writing down a specificach answer choice; for example,	•
6. Does your muscle st	iffness increase with continued	activity (paramyotonia)?
© No		
C Unsure		
7. Gender:		
○ Male		
C Female		
3. Height:		
	Inches	Centimeters
Please fill in only one column.		
). Weight:		
	Pounds	Kilograms
Please fill in only one column.	<u></u>	•
10. Please list your occ	cupations over the past 10 years	in chronological order, starting
with the most recent fi	'st:	
	—	

11. Do you receiv	e Social Security disability? If yes, please indicate the grounds for whi
ou are receving	it in the box below.
C No	
C Yes	
Comments:	
	_
	*
	members also have hyperkalemic periodic paralysis? Please check all
hat apply.	
None	
Maternal grandparen	
Paternal grandparent	
Aunt/Uncle	
Parent	
Sibling	
Child	
Grandchild	
Other (please specify)	
	*
	-
	ich family members, if any, have been affected by hyperkalemic period
	nyotonia congenita.
lyperkalemic Periodic aralysis	
aramyotonia Congenita	
lypokalemic Periodic aralysis	
Myotonias	

Hyperkalemic Periodic Paralysis Management
14. Do you have any other illnesses? Please check all that apply and elaborate on your
checked medical condition/s in the box below.
☐ Diabetes type 1
Diabetes type 2
High triglycerides/cholesterol
High blood pressure
Migraines
☐ Coronary artery disease
Heart rhythm abnormalities
□ ADD/ADHD
☐ Thyroid problems
☐ Kidney problems
Other (please specify)
8. Diagnosis & Symptoms
8. Diagnosis & Symptoms 1. Age of first attack:
1. Age of first attack:
 Age of first attack: What symptoms caused you to seek medical treatment for your condition before you
1. Age of first attack:
 Age of first attack: What symptoms caused you to seek medical treatment for your condition before you
 Age of first attack: What symptoms caused you to seek medical treatment for your condition before you knew your diagnosis?
 Age of first attack: What symptoms caused you to seek medical treatment for your condition before you
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1. Age of first attack: 2. What symptoms caused you to seek medical treatment for your condition before you knew your diagnosis? 3. How long did it take to arrive at the correct diagnosis of hyperkalemic periodic paralysis? 4. How many different doctors did you visit before you arrived at your diagnosis?

	1	valuable, 5 =	3	4	5	Did not see this specialist
leurologist	0	O	O	0	0	Specialist
indocrinologist	0	0	0	0	0	O
sychiatrist	O	0	0	0	O	0
lephrologist	0	O	O	0	\circ	O
Homeopathic or Alternative Medicine Specialists	0	0	0	0	0	0
hysiatrist	0	0	0	0	O	0
ther (please specify type of phy	ysician and value))				
			_			
What tests did you	ı nave to aı	rrive at your	alagnosis?	Please chec	K all that a	ірріу. Іт
ossible, please call	your docto	or to clarify i	f not sure.			
Muscle biopsy						
EMG (electromyogram)						
Nerve conduction study						
CMAP (compound muscle	action potential)					
Creatine kinase (CK)						
EKG (electrocardiogram)						
Genetic testing						
Potassium challenge test						
Fasting challenge test (i.e	., inducing an atta	ack by not eating)				
doming one only took (i.e.						
_						
_						
Blood tests Urine tests						
☐ Blood tests ☐ Urine tests			_			
☐ Blood tests ☐ Urine tests			<u> </u>			
Blood tests Urine tests			<u> </u>			
☐ Blood tests ☐ Urine tests						

Hyperkalemic Periodic Paralysis Management 7. Please list various misdiagnoses you were given prior to genetic confirmation of hyperkalemic periodic paralysis. Conversion disorder ☐ Myasthenia gravis ■ Multiple sclerosis Hypokalemic periodic paralysis Andersen-Tawil syndrome (formerly Andersen syndrome) Depression Diuretic abuse ☐ Faking it Malingering (i.e., faking it to get disability or other gain) Other (please specify) 8. Do you notice any signs/symptoms in the preceding day or so before the onset of an attack (e.g., dark circles under the eyes, irritability, etc.)? 9. What symptoms do you experience immediately before an attack? 10. Typically how long after recognizing warning signs/symptoms do you experience a full attack? Other (please specify)

	When you get attacks, they are (shock all that apply):
_	When you get attacks, they are (check all that apply):
	Weakness only
	Stiffness only
	Stiffness followed by weakness
	Weakness followed by stiffness
	Most often characterized by stiffness
	Most often characterized by weakness
12.	When you get attacks of weakness, are they typically:
0	Total body, regardless of prior activity
0	Partial body, regardless of prior activity
0	Only muscles used prior to the attack
13.	Which parts of the body are affected by the muscle stiffness or weakness? Please
che	eck all that apply.
	speaking musculature
	breathing musculature
	face
	eyelids
	neck
	arms
	hands
	hips
	thigh
	calf
	feet
	Other (please specify)

Hyperkalemic Periodic Paralysis Management 14. Most of my attacks are: O Very severe - cannot speak, cannot call for help Severe – can speak, cannot move at all, can call for help Moderate – have some movement, can self-medicate Mild – have only some limitations on mobility, others would notice I am in an attack O Very mild – barely noticeable to others, few limitations 15. What activities are you still able to perform when in the attack of most common severity? (Please check all that apply) Speak O Hold a pencil Get out of bed Walk Walk up stairs without assistance/banister Jump up and down comfortably 16. How severe are your symptoms between attacks? No symptoms Mild Moderate Severe, impairs activities of daily living 17. If you have symptoms between attacks, what are they typically characterized by? No symptoms between attacks Muscle weakness Muscle stiffness Both 18. Do you experience muscle pain during and/or after attacks of paralysis? Please check all that apply. Yes - During attacks Yes - After attacks □ No

19. What other symptoms do you experience after an attack? No symptoms Muscle pain Extreme falsigue Thirst Shortness of breath (either due to anxiety or to the episode itself) Papitations Clumsiness Irritability Mental duliness Other (please specify) Overall mental health Overall mental health Overall physical health (e.g., weight gain, heart disease, depression, etc please specify in comments box below). Familty life Relationships Work School Other (please specify) Vice - weight gain Yes - weight loss No Comments No Comments Overall physical health (e.g., weight has been affected by your hyperkalemic periodic paralysis? Overall physical health (e.g., weight loss No Comments Other (please specify) Other (please		perkalemic Periodic Paralysis Management
Muscle pain Extreme fatigue Thirst Shortness of breath (either due to anxiety or to the episode itself) Palpitations Clumsiness Irritability Mental duliness Other (please specify)	19.	. What other symptoms do you experience after an attack?
Extreme fatigue Thirst Shortness of breath (either due to anxiety or to the episode itself) Palpitations Clumsiness Irritability Mental duliness Other (please specify) 20. Has your illness negatively affected any of the following? Please check all that apply. Overall mental health Overall physical health (e.g., weight gain, heart disease, depression, etc please specify in comments box below). Family life Relationships Work School Other (please specify) 21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? Yes - weight gain Yes - weight loss No		No symptoms
Thirst Shortness of breath (either due to anxiety or to the episode itself) Palpitations Clumsiness trritability Mental duliness Other (please specify)		Muscle pain
Shortness of breath (either due to anxiety or to the episode itself) Palpitations Clumsiness Irritability Mental duliness Other (please specify) 20. Has your illness negatively affected any of the following? Please check all that apply. Overall mental health Overall physical health (e.g., weight gain, heart disease, depression, etc please specify in comments box below). Family life Relationships Work School Other (please specify) 21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? C Yes - weight gain C Yes - weight loss O No		Extreme fatigue
Palpitations Clumsiness Irritability Mental duliness Other (please specify) 20. Has your illness negatively affected any of the following? Please check all that apply. Overall mental health Overall mental health (e.g., weight gain, heart disease, depression, etc please specify in comments box below). Family life Relationships Work School Other (please specify) 21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? C Yes - weight gain C Yes - weight loss No		Thirst
Clumsiness Irritability Mental duliness Other (please specify)		Shortness of breath (either due to anxiety or to the episode itself)
Irritability Mental duliness Other (please specify)		Palpitations
Mental dullness Other (please specify)		Clumsiness
Other (please specify) 20. Has your illness negatively affected any of the following? Please check all that apply. Overall mental health Overall physical health (e.g., weight gain, heart disease, depression, etc please specify in comments box below). Family life Relationships Work School Other (please specify) 21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? C Yes - weight gain Yes - weight loss No		Irritability
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 School Other (please specify) 21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? Yes - weight gain Yes - weight loss No 	_	
Other (please specify) 21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? Yes - weight gain Yes - weight loss No		
21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? O Yes - weight gain Yes - weight loss No		
21. Do you feel that your weight has been affected by your hyperkalemic periodic paralysis? O Yes - weight gain O Yes - weight loss No		
paralysis? C Yes - weight gain C Yes - weight loss C No		
paralysis? C Yes - weight gain C Yes - weight loss C No		
 Yes - weight gain Yes - weight loss No 	21.	. Do you feel that your weight has been affected by your hyperkalemic periodic
C Yes - weight loss C No	pa	ralysis?
O No	0	Yes - weight gain
	0	Yes - weight loss
Comments	0	No
	Con	nments

Mo	ore carbohydrate intake	
Le	ess physical activity	
Ot	ther (please specify)	
Н	ow frequently do you have attacks?	
W	hat is the duration of a typical attack?	
	▼	
	hat was the duration of your longest attack	?
W		
W	<u> </u>	
VV		
		that apply.
W	V	
W	hat triggers your attacks? Please check all	
W Re	/hat triggers your attacks? Please check all	Stress/fatigue Medications
Re Hu Sp	That triggers your attacks? Please check all est after exercise	Stress/fatigue Medications
Re Hu Sp	That triggers your attacks? Please check all est after exercise unger pecific foods or beverages	Stress/fatigue Medications Menstrual cycle
Re Hu Sp Al	That triggers your attacks? Please check all est after exercise unger execific foods or beverages cohol	Stress/fatigue Medications Menstrual cycle Pregnancy
Re Hu Sp All	That triggers your attacks? Please check all est after exercise unger pecific foods or beverages cohol	Stress/fatigue Medications Menstrual cycle Pregnancy Changes in level of activity Potassium in food
Rec Hu Sp Al- Co Ch Sid	That triggers your attacks? Please check all est after exercise unger pecific foods or beverages cohol and the hange in humidity	Stress/fatigue Medications Menstrual cycle Pregnancy Changes in level of activity Potassium in food
Re Hu Sp All Co Ch Sid	That triggers your attacks? Please check all est after exercise unger pecific foods or beverages cohol and the hange in humidity ckness	Stress/fatigue Medications Menstrual cycle Pregnancy Changes in level of activity Potassium in food
Re Hu Sp All Co Ch Sid	That triggers your attacks? Please check all est after exercise unger pecific foods or beverages cohol old hange in humidity ckness ctra sleep	Stress/fatigue Medications Menstrual cycle Pregnancy Changes in level of activity Potassium in food
Ref Hu Sp All Co Ch Sid Ex	That triggers your attacks? Please check all est after exercise unger pecific foods or beverages cohol old hange in humidity ckness ctra sleep	Stress/fatigue Medications Menstrual cycle Pregnancy Changes in level of activity Potassium in food

	erkalemic Periodic Paralysis Management
27.	Typical time of day attack occurs (check all that apply):
	Morning
	Afternoon
	Evening
	Night
	Upon waking
	During sleep (please specify time of day, e.g. nap, middle of the night, etc. in "Other" box)
	Other (please specify)
28.	When exposed to cold temperatures, do your muscles slowly relax after voluntary
cor	ntraction (myotonia)?
0	Yes
0	No
0	Unsure
29.	Have you experienced progressive myopathy (muscle dysfunction) or permanent
	akness?
0	Yes
0	No
0	Unsure
30.	What additional symptoms do you experience in association with your attacks? Please
	eck all that apply.
	Numbness/tingling
	Sweating
	Palpitations
	Shortness of breath/Difficulty breathing
	Loss of bladder control
	Loss of bowel control
	Other (please specify)

32. If you for that apply. Chronic (to prevent attacks)	eel you h	ave unique a	attacks that Daranide	you wish	Please des	e here, pl	r typical	attack(s)
1. What me that apply. Chronic (to prevent attacks)	ent & Ma	anagement s have you u	ised in your					
1. What me that apply. Chronic (to prevent attacks)	ent & Ma	anagement s have you u	ised in your					
1. What me that apply. Chronic (to prevent attacks)	ent & Ma	anagement s have you u	ised in your					
1. What me that apply. Hyd Chronic (to prevent attacks)	edications	s have you u	ısed in your	lifetime to	treat you	r attacks?	Please (check all
1. What me that apply. Hyd Chronic (to prevent attacks)	edications	s have you u	ısed in your	lifetime to	treat you	r attacks?	Please o	heck all
1. What me that apply. Hyd Chronic (to prevent attacks)	edications	s have you u	ısed in your	lifetime to	treat you	r attacks?	Please (check all
that apply. Hyd Chronic (to prevent attacks)	drochlorothiazio	Diamox	_	lifetime to	treat you	r attacks?	Please o	check all
Hyd Chronic (to prevent attacks)	drochlorothiazi	de	Daranide					
prevent attacks)			(Dichlorphenamide)	Lasix (Eurosemide)	Mexitil (Mexiletine)	Salbutamol	IV calcium	Glucose tablets
A suits (to							gluconiate	
Acute (to treat attacks)								
Other (please spe	ecify if chronic	or acute)		-				
			À					
			V					
		edications i	n Question 1	, what into	erventions	do you u	ndertake	to treat
an acute at								
Gentle exe								
g.		sify in "Other" box)						
Other (plea		,						

								, ,
_	ove treatments	and interven	itions?					
0	All of the time							
0	Most of the time							
0	Some of the time							
0	Occasionally							
0	Never							
Con	nments							
4. \	What level of co	ntrol do vou	feel vou ha	ve achiev	ed with vo	our cur	rent reain	nen of
	erapy?		,		,		J	
0	Optimal							
0	Mostly controlled							
	•							
0	Needs improvement							
5. \	Needs improvement What medication timal control?	n, combinati	ion of medic	cations, o	r foods ha	ve you	found to	achieve
5. V	What medication timal control?		A					
5. V opt	What medication timal control? What medication	ns, foods, or	A					
5. V opt 6. V	What medication timal control? What medication ease specify for	ns, foods, or	A					
5. Vopt	What medication timal control? What medication the same specify for the same specific for the same	ns, foods, or	A					
5. V opt 6. V	What medication timal control? What medication ease specify for ications	ns, foods, or	A					
5. V opt	What medication timal control? What medication the same specify for the same specific for the same spe	ns, foods, or each.	other items	do you ha	ave on ha	nd to tr		
5. V opt 6. V Ple Medi Food Othe	What medication timal control? What medication the same specify for the same specific for the same sp	ns, foods, or each.	other items	do you ha	ave on ha	nd to tr		
5. V opt 6. V Ple Medi Food Othe 7. I Medi	What medication timal control? What medication the ase specify for each choice tications	ns, foods, or each.	other items	do you ha	ave on ha	nd to tr		
5. V opt 6. V Ple Medi Food Othe	What medication timal control? What medication ease specify for each choice e	ns, foods, or each.	other items	do you ha	ave on ha	nd to tr		

	erkalemic Periodic Par		
		=	on? In the comments box, please indicate
	er foods not listed here.	n specific candle	s you find most helpful, as well as any
	Non-diet soda		Pasta
	Sweetened iced tea		Bread
	Unsweetened tea		White potatoes
	Fruit juice		Sweet potatoes
	Vegetable juice		Sugar
	Candy		Yogurt
	Cereal		Ice cream
	Oatmeal		
	Comments		
		_	
		_	
		· · · · · · · · · · · · · · · · · · ·	
			rently than refined carbohydrates? If so,
ple	ase describe the different eff		rently than refined carbohydrates? If so,
plea	ase describe the different eff		rently than refined carbohydrates? If so,
plea o o	ase describe the different eff I don't know I don't eat whole grains		rently than refined carbohydrates? If so,
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o o	ase describe the different eff I don't know I don't eat whole grains No		rently than refined carbohydrates? If so,

C		ue	to your condition? Include	ea be	eiow are nign potassii
4	Is that may trigger attacks				
	p://www.hkpp.org/faq/hype ^{Cantaloupes}	rka □	lemic_periodic_paralysis.l	htmi _.	Other vegetable juices
	Apricots		Parsnip		Lentils and beans
	Dried figs		Potato		Nuts
_	Kiwis		Pumpkin		Peanut butter
	Peaches		Spinach		Chocolate
_	Raisins		Broccoli		Alcohol
	Bananas		Brussels sprouts		Diet soda
	Prunes		Cauliflower		Cold foods
	Fruit juice		Tomato juice or tomato-based juices		Cold beverages
_	Other (please specify)				
2.	How frequently do you eat	car	bohydrate-rich snacks th	roug	hout the day?
<u>.</u> 	How frequently do you eat	car	bohydrate-rich snacks th	roug	hout the day?
[
[3.		ain			
[3.	Have you noticed that cert	ain			
3. ③	Have you noticed that cert Liquid sweets (e.g., Coke) work more quickl	ain			
[3. •	Have you noticed that cert Liquid sweets (e.g., Coke) work more quickl Solid sweets (e.g., candy) work more quickl I have not noticed/Equal	a in ly ly	forms of sweets work mo	re qu	
[3.	Have you noticed that cert Liquid sweets (e.g., Coke) work more quickl Solid sweets (e.g., candy) work more quickl	a in ly ly	forms of sweets work mo	re qu	
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[3.	Have you noticed that cert Liquid sweets (e.g., Coke) work more quickl Solid sweets (e.g., candy) work more quickl I have not noticed/Equal	a in ly ly	forms of sweets work mo	re qu	
[]	Have you noticed that cert Liquid sweets (e.g., Coke) work more quickl Solid sweets (e.g., candy) work more quickl I have not noticed/Equal	a in ly ly	forms of sweets work mo	re qu	

Pla	. What quantity of food do you prefer to eat at a time due to its effect on your disease?
0	Smaller quantities
0	Medium quantities
0	Larger quantities
O	Larger quantities
Cor	nments
15	. How long did it take for you to arrive at your current regimen of therapy?
Oth	er (please specify)
L	
	. Please list all medications (with dosages, if possible) that you have tried in
ch	ronological order.
	lacksquare
	. We tried to tease out what medications you tried and each dose. In as much detail as
yo	. We tried to tease out what medications you tried and each dose. In as much detail as u can recall, please describe how your regimen evolved early on from your current gimen.
yo	u can recall, please describe how your regimen evolved early on from your current
yo	u can recall, please describe how your regimen evolved early on from your current
yo	u can recall, please describe how your regimen evolved early on from your current
yo	u can recall, please describe how your regimen evolved early on from your current gimen. Language describe how your regimen evolved early on from your current gimen. Language describe how your regimen evolved early on from your current gimen. Language describe how your regimen evolved early on from your current gimen.
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youreg	u can recall, please describe how your regimen evolved early on from your current gimen. Have you found that certain medications do not work? If yes, please specify.
you required the second	u can recall, please describe how your regimen evolved early on from your current gimen. Have you found that certain medications do not work? If yes, please specify. No Yes (please specify)
18 0 19	u can recall, please describe how your regimen evolved early on from your current gimen. Have you found that certain medications do not work? If yes, please specify. No Yes (please specify) Are there medications that trigger attacks or worsen your general condition? Please
18 0 19	u can recall, please describe how your regimen evolved early on from your current gimen. Have you found that certain medications do not work? If yes, please specify. No Yes (please specify)
18 0 19	Lacan recall, please describe how your regimen evolved early on from your current spimen. Have you found that certain medications do not work? If yes, please specify. No Yes (please specify) Are there medications that trigger attacks or worsen your general condition? Please ecify.
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18. ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	u can recall, please describe how your regimen evolved early on from your current gimen. Have you found that certain medications do not work? If yes, please specify. No Yes (please specify) Are there medications that trigger attacks or worsen your general condition? Please ecify. No
18 0 19 spc	u can recall, please describe how your regimen evolved early on from your current gimen. Have you found that certain medications do not work? If yes, please specify. No Yes (please specify) Are there medications that trigger attacks or worsen your general condition? Please ecify. No

	s do you experie	nce from your me	dication? Please ched	ck all that
ipply.				
None				
Palpitations				
Gastric irritation				
Cognitive dulling				
Excessive urination				
Other (please specify)				
1. The next few and	estions (21-25) a	ttempt to elucida	te how your disease h	as change
low has the freque	ncy of your attac	ks changed over	time?	
	Worsened	Improved	Stayed the Same	N/A
Childhood	0	0	O	\circ
Puberty/Teenage Years	0	O	0	0
Puberty/Teenage Years	0	0	©	0
Puberty/Teenage Years age 20-39 age 40-69	0	0	© ©	0
Puberty/Teenage Years age 20-39 age 40-69 age 70+	O O	0 0	© © ©	0 0
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy	O O O	0 0 0	o o o	0 0
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause	O O	0 0	© © ©	O O
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause	O O O	0 0 0	o o o	0 0
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments	O O O O		© © © ©	0 0
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments	o o o o	o o o o during attacks c	hanged over time?	
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments	O O O O		© © © ©	0 0
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause comments 2. How has your mi	C C C C wscle weakness	during attacks cl	C C C C Anaged over time? Stayed the Same	O O O O O
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause omments 2. How has your methods Childhood Puberty/Teenage Years	C C C C wscle weakness Worsened	during attacks cl	C C C C C Stayed the Same C	O O O O O O O O O O O O O O O O O O O
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments 22. How has your michildhood Puberty/Teenage Years age 20-39	C C C Worsened	during attacks cl	C C C C C C C Stayed the Same C C C	O O O O O
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause comments 2. How has your m Childhood Puberty/Teenage Years age 20-39 age 40-69	C C C C C C C C C C C C C C C C C C C	during attacks cl	C C C C C Stayed the Same C C C	O O O O O O O O O O O O O O O O O O O
Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments 22. How has your m Childhood Puberty/Teenage Years age 20-39 age 40-69 age 70+ Pregnancy	C C C Worsened C C C C C C C C C C C C C C C C C C C	during attacks cl	C C C C Stayed the Same C C C C C	O O O O O O O O O O O O O O O O O O O
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age 40-69 C C C C C C C C C C C C C C C C C C C	age 40-69 C C C C Pregnancy C C C C Menopause C C C C C Comments	age 40-69 C C C C Pregnancy C C C C C Comments	age 40-69 age 70+	0			0
Regard 10	Rege 70+ C C C C C Renopause C C C C C C C C C Renopause C C C C C C C C Renopause C C C C C C C C C Renopause C C C C C C C C C Renopause C C C C C C C C C C C Renopause C C C C C C C C C C C Renopause C C C C C C C C C C C C C Renopause C C C C C C C C C C C C C C C C C C C	Rege 70+ C C C C C C C C C C C C C C C C C C C	age 70+		O	0	
Pregnancy C C C C C Menopause C C C C C Comments 24. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C C C Puberty/Teenage Years C C C C age 20-39 C C C C age 40-69 C C C age 70+ C C C Applicable Years C C C C Application C C C C C C Application C C C C C C Application C C C C C C C Application C C C C C C C Application C C C C C C C C Application C C C C C C C C C Application C C C C C C C C C C Application C C C C C C C C C C C C C C C Application C C C C C C C C C C C C C C C C C C C	Pregnancy C C C C C Menopause C C C C C Comments 24. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C Puberty/Teenage Years C C C age 20-39 C C C age 40-69 C C C Age 70+ C C C Pregnancy C C C Age 70+ C C	Pregnancy C C C C C Menopause C C C C C Comments 24. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C C C Puberty/Teenage Years C C C C age 20-39 C C C C age 40-69 C C C age 70+ C C C Applicable Years C C C C Application C C C C C C C C Application C C C C C C C C C C Application C C C C C C C C C C C C Application C C C C C C C C C C C C C C C C C C C		0		C	0
Menopause C C C C C Comments 24. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C Puberty/Teenage Years C C C age 20-39 C C C age 40-69 C C age 40-69 C C Age 70+ C C Pregnancy C C C Age 70+ C C	Menopause C C C C C Comments 24. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C C C C C C C C C C C C C C C C	Menopause C C C C C Comments 24. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C C Puberty/Teenage Years C C C C age 20-39 C C C C age 40-69 C C C age 40-69 C C C Age 70+ C C	Pregnancy		O	O	0
A4. If applicable, have you noticed any changes in permanent muscle weakness over ime? Worsened Improved Stayed the Same N/A Childhood C C C C Puberty/Teenage Years C C C age 20-39 C C C age 40-69 C C C age 40-69 C C C Pregnancy C C C C C C C C Pregnancy C C C C C C C C C Pregnancy C C C C C C C C C C C C Pregnancy C C C C C C C C C C C C C C C C C C C	A4. If applicable, have you noticed any changes in permanent muscle weakness over time? Worsened Improved Stayed the Same N/A Childhood C C C C Puberty/Teenage Years C C C age 20-39 C C C age 40-69 C C C Pregnancy C C C C C C C C Pregnancy C C C C C C C C C C C Pregnancy C C C C C C C C C C C C C C C C C C C	A4. If applicable, have you noticed any changes in permanent muscle weakness over ime? Worsened Improved Stayed the Same N/A Childhood C C C C Puberty/Teenage Years C C C age 20-39 C C C age 40-69 C C C Pregnancy C C C C C C C Pregnancy C C C C C C C Pregnancy C C C C C C C C Pregnancy C C C C C C C C Pregnancy C C C C C C C C C Pregnancy C C C C C C C C C C C Pregnancy C C C C C C C C C C C C C C C C C C C		O	\odot	0	\circ
24. If applicable, have you noticed any changes in permanent muscle weakness over ime? Worsened Improved Stayed the Same N/A Childhood C C C C C Puberty/Teenage Years C C C C C age 20-39 C C C C age 40-69 C C C C age 40-69 C C C C Age 70+ C C Ag	24. If applicable, have you noticed any changes in permanent muscle weakness over ime? Worsened Improved Stayed the Same N/A Childhood C C C C C Puberty/Teenage Years C C C C age 20-39 C C C age 40-69 C C C age 40-69 C C C Age 70+	24. If applicable, have you noticed any changes in permanent muscle weakness over ime? Worsened Improved Stayed the Same N/A Childhood C C C C Puberty/Teenage Years C C C age 20-39 C C C age 40-69 C C C age 40-69 C C C C Age 70+ C C C C C C C C C C C C C C C C C C C	Menopause	O	O	0	0
Worsened Improved Stayed the Same N/A	Worsened Improved Stayed the Same N/A	Worsened Improved Stayed the Same N/A	Comments				
Childhood Cuberty/Teenage Years Cuberty/Teen	Childhood Cuberty/Teenage Years Cuberty/Teen	Childhood Cuberty/Teenage Years Cuberty/Teen					
Puberty/Teenage Years C C C C C C C C C C C C C C C C C C	Puberty/Teenage Years C C C C C C C C C C C C C C C C C C	Puberty/Teenage Years C C C C C C C C C C C C C C C C C C	Childhood				
age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments	age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments	age 20-39 age 40-69 age 70+ Pregnancy Menopause Comments					0
age 40-69 C C C C C C C C C C C C C C C C C C C	age 40-69 C C C C C C C C C C C C C C C C C C C	age 40-69 C C C C C C C C C C C C C C C C C C C			O	0	0
Pregnancy C C C C C C C C C C C C C C C C C C C	Pregnancy C C C C C C C C C C C C C C C C C C C	Pregnancy C C C C C C C C C C C C C C C C C C C		\circ	O	0	O
Pregnancy C C C Menopause C C C Comments 25. Over the years, if you feel your symptoms have additionally changed in other ways,	Pregnancy C C C Menopause C C C C Comments 25. Over the years, if you feel your symptoms have additionally changed in other ways,	Pregnancy C C C Menopause C C C C Comments 25. Over the years, if you feel your symptoms have additionally changed in other ways,	age 70+	0	0	O	O
Menopause Comments 25. Over the years, if you feel your symptoms have additionally changed in other ways,		Menopause C Comments 25. Over the years, if you feel your symptoms have additionally changed in other ways,	Pregnancy	0	O	O	0
25. Over the years, if you feel your symptoms have additionally changed in other ways,	25. Over the years, if you feel your symptoms have additionally changed in other ways,	25. Over the years, if you feel your symptoms have additionally changed in other ways,		0	0	O	0
25. Over the years, if you feel your symptoms have additionally changed in other ways,	25. Over the years, if you feel your symptoms have additionally changed in other ways,	25. Over the years, if you feel your symptoms have additionally changed in other ways,	Comments				
				u feel your sy	mptoms have ad	ditionally changed in	other ways,
					V		

26.	What accommodations do	you	ı make in your	home environm	ent to help manage your
dis	ease?				
	None				
	Rug placement				
	Items kept within reach near bed (e.g. wa	ter, ca	bohydrates, phone, me	edication - please specify in	n "Other" box)
	Emergency access button or necklace				
	Exercise equipment				
	Wheelchair accessibility				
	Bathroom railings				
	Other (please specify)				
			_		
			~		
27.	What do you find is an effe	ctiv	e way to exerc	cise while avoidii	ng an attack?
	Walking		Swimming		Running - treadmill
	Yoga		Biking - indoors		Running - outdoors
	Pilates		Biking - outdoors		Sprints - treadmill
	Tai chi		Jogging - treadmill		Sprints - outdoors
	Karate		Jogging - outdoors		Aerobic exercise
	Other (please specify)				
			_		
			~		
28.	What do you do to avoid t	he c	old?		
0	I do not need to avoid the cold				
0	Warm clothing				
0	Heated rooms				
0	Avoid the outdoors				
0	Electric blanket				
0	Other (please specify)				

v markalamia F	Pariadia Daraha	is Managamar	- 4	
<u> </u>	Periodic Paralys			
	gests that attacks ils, sleeping in later,	-		
for you?	iis, sieepiily iii latei,	and changing noi	iliai activity levels.	is this the case
C Yes, this is the case for	or me			
,	ce an increase in attacks over h	olidavs		
•		•		
If yes, how do you manage	? If no, what if any preventive m	easures do you take?		
		V		
30. If your potass	ium has ever been r	neasured during a	ın attack, what was	s the result and
now did you feel?	If you are unsure o	r your potassium	has not been chec	ked, click "N/A."
	Weak	Stiff	Both	N/A
Hyperkalemic	0	O	0	0
Hypokalemic	0	0	0	0
Normal	O	O	O	0
31. Is there a pota	assium threshold ab	ove which attack	s are certain to occ	cur?
C I don't know				
O No				
Yes (please specify)				
32. Do you have a	a glucometer at hon	ne?		
C No				
C Yes - I don't use it/I do	on't keep track of levels			
C Yes - I do not see a co	orrelation between glucose leve	s and attacks		
Yes - attacks tend to o	occur below a certain level (plea	se specify):		
33 Some noonlo	report being affecte	d hy hynarkalami	e neriodie nerelyci	s hut also roport
	report being affecte kness associated wi	5 5.		-
-	. Is this the case wi	-	Joiani mat 13 mpit	, tou with
, c. tacciami mitano		<i>y</i>		

C Yes - please specify your form of potassium intake (foods, pills, etc.)

_	ou have ever been ancy?	pregnant, what speci	al precautions did yo	ou take during
. If ap	oplicable, how did	attacks change durin	ig pregnancy?	
-	•	More	Less	Same
Severity Frequenc		0	0	0
			ralveis	
araly	sis (excluding ane	esthesia)?		
			ralveio	
O I hav	ve never had a complication	from surgery related to periodic pa	lialysis	
		from surgery related to periodic pa		
C I hav	ive had complications from su	orgery related to periodic paralysis	(please specify)	
C I have	ou have ever had lo	ocal anesthesia, did it	(please specify)	
C I have	ou have ever had lo	ocal anesthesia, did it	(please specify)	
C I have contact the contact that the co	bu have ever had love never had love never had love nesthesial anesthesia did not trigger as (please list the medication and	ocal anesthesia, did it a. an attack nd describe the reaction)	(please specify) trigger an attack?	
C I have considered in the constant of the con	bu have ever had love never had love never had local anesthesia all anesthesia did not trigger as (please list the medication and have ever had go	ocal anesthesia, did it a. an attack and describe the reaction) eneral anesthesia, did	(please specify) trigger an attack?	
C I have considered in the constant of the con	bu have ever had love never had love never had love nesthesial anesthesia did not trigger as (please list the medication and	pcal anesthesia, did it a. an attack and describe the reaction) eneral anesthesia, did esia	(please specify) trigger an attack?	
I have a like a	Du have ever had love never had love never had local anesthesia all anesthesia did not trigger at a (please list the medication at the local have ever had go we never had general anesthesia anesthesia did not trigger at a pour have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local have ever had general anesthesia did not trigger at a local had better the local had	pcal anesthesia, did it a. an attack and describe the reaction) eneral anesthesia, did esia er an attack	(please specify) trigger an attack?	

yp	erkalemic Periodic Pa	ralysis Management
	-	tions seeks to define the effect of attacks on mood and
ove	erali mental well-being. Just Irritable	before or during attacks, my overall mood is:
	Depressed	
	Lethargic	
	Нарру	
	Other (please specify)	
7 E	Potovo ov duvina on ottook s	la family mambara ar athera nation
/ . E	No change in mood	lo family members or others notice:
	Increased irritability	
	Increased lethargy	
	Depressed mood	
П	Other (please specify)	
me	ntal well-being as:	
	Depressed	
	Satisfied	
	Нарру	
	Fulfilled	
	Lost	
	Hopeless	
	Hopeful	
	Other (please specify)	
		ories or difficulties you experienced due to hyperkalemic
9. F	Please share any extreme st	
	Please share any extreme st riodic paralysis.	

Hyperkalemic Periodic Paralysis Management
10. What recommendations do you have for others with hyperkalemic periodic paralysis?
▼
11. Please let us know of any additional comments you might have here.
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