

Fabry Registry Recommended Schedule of Assessments

Recommended Schedule of Assessments Patients Under 18 Years of Age

Recommended Schedule of Assessments Patients Age 18 Years and Over

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Fabry Registry Recommended Schedule of Assessments

Pediatric Patients (Under 18 Years of Age*)

GENERAL Medical History, with particular focus on:						
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0	1					
Gastrointestinal Symptoms						
Pain						
Sweating	1					
Heat & Cold Intolerance	-					
Family History						
Physical Exam						
Vital Signs, Height and Weight						
Blood Pressure ^b						
Enzyme Activity and Genotype						
Enzyme Replacement Therapy Status						
Concomitant Medication Assessment						
Pediatric Quality of Life Assessment – PedsQL™ Pediatric Quality of Life Inventory						
Pediatric Quality of Life Assessment – PedsQL™ Multidimensional Fatigue Scale						
Pediatric Pain Assessment – PedsQL™ Pediatric Pain Questionnaire™						
LABORATORY TESTS						
Glomerular Filtration Rate (GFR) ^c						
Albuminuria and Proteinuria ^d						
OTHER STUDIES						
Audiologic Evaluation ^e						
Cranial MRI – T1, T2 and FLAIR			f	fl fl		
Electrocardiogram ^g						
Echocardiogram ^h						
Cardiac MRI ⁱ						
Ophthalmology – Slit Lamp Exam ^j						
SPECIALIZED LABORATORY TESTS						
Plasma GL-3	Plasma samples for GL-3 testing should be drawn prior to the first infusion, then every 3 months for the first 18 months of treatment, then every 6 months thereafter.					
Antibody Testing	Serum samples for IgG testing should be drawn prior to the first infusion, then every 3 months for the first 18 months of treatment, then every 6 months until 2 consecutive negative results are confirmed.					
ADVERSE EVENTS						
Adverse Event Monitoring ^k	Continuous.					

The Recommended Schedule of Assessments represents the core Fabry disease-related assessments that allow evaluation of a patient's disease progression over time. Physicians will determine the actual frequency of necessary assessments according to a patient's individualized need for medical care and routine follow-up.

- Initiation of Laboratory Tests, Imaging, and Other Studies: There is variability in the clinical complications and progression of Fabry disease. Children are at risk for life threatening complications. There are no biomarkers available to discern mildly affected from severely affected patients. In children with a family history of early presenting or severe disease, complete evaluations should be done at the time of diagnosis. Other patients should be completely evaluated at no later than 5 years of age.
- a Patients receiving ERT are recommended to undergo these evaluations every 6 months; for those not on ERT or with milder disease, once per year may be sufficient.
- ^b Blood pressure should be measured 3 times at each assessment; only the last 2 measurements should be recorded.
- GFR should be measured directly every 24-36 months until age 15, and annually thereafter. If direct measurement is not possible, serum creatinine levels should be obtained at the recommended intervals for an estimation of GFR, which is a less sensitive method.
- d First morning voided urine for protein, albumin and creatinine in order to calculate a protein/creatinine ratio and albumin/creatinine ratio. Protein, albumin, and creatinine measurements can also be performed on timed samples (e.g. 24 hours).
- e Audiologic evaluation should be performed at the earliest age that is practical.
- f Cranial MRIs should be performed at ages 10, 15, and 18 years.
- ⁿ At the time of a cerebrovascular event, a cranial MRI should also include diffused weighted images and apparent diffusion coefficient (DWI/ADC).
- ⁹ Electrocardiogram should be performed starting at age 10–12 years. If abnormal and/or clinical symptoms arise, Holter monitoring is recommended.
- ^h Echocardiogram should be performed starting at age 10–12 years.
- ¹ Cardiac MRI is recommended to be performed in patients under age 25 if cardiac hypertrophy or significant arrhythmia is present.
- ^j Monitor yearly if retinal vessel tortuosity noted.
- ^k See Section 15.1 of the Fabry Registry protocol for specific AE reporting guidelines and instructions.

Fabry Registry Recommended Schedule of Assessments

Adult Patients (≥18 Years of Age)

	Upon Enrollment	Every 6 months	Every 12 months	Every 24-36 months	At time of an event or therapy change				
GENERAL									
Medical History									
Family History									
Physical Exam									
Vital Signs, Height and Weight									
Enzyme Activity and Genotype									
Enzyme Replacement Therapy Status									
Concomitant Medication Assessment									
Quality of Life (SF-36®, BPI)									
LABORATORY TESTS									
Serum Creatinine ^a and BUN									
Urine Protein Excretion ^b									
Lipid panel									
OTHER STUDIES									
Audiologic Evaluation									
Cranial MRI – T1, T2 and FLAIR					c				
Electrocardiogram ^d									
Echocardiogram									
24-Hour Holter Monitoring ^e									
Cardiac MRIf			fl fl	fl fl	f2				
Respiratory – Spirometry Exam ^g									
Ophthalmology — Slit Lamp Exam ^h									
SPECIALIZED LABORATORY TESTS									
Plasma GL-3		Plasma samples for GL-3 testing should be drawn prior to the first infusion, then every 3 months for the first 18 months of treatment, then every 6 months thereafter.							
Antibody Testing		Serum samples for IgG testing should be drawn prior to the first infusion, then every 3 months for the first 18 months of treatment, then every 6 months until 2 consecutive negative results are confirmed.							
ADVERSE EVENTS									
Adverse Event Monitoring ⁱ	Continuous.								

The Recommended Schedule of Assessments represents the core Fabry disease-related assessments that allow evaluation of a patient's disease progression over time. Physicians will determine the actual frequency of necessary assessments according to a patient's individualized need for medical care and routine follow-up.

- ^a Directly measuring glomerular filtration rate (GFR) is recommended if a more precise evaluation is desired.
- $^{\mbox{\tiny b}}$ 24 hour or first morning void urine for protein, creatinine and albumin.
- °At the time of an event, a cranial MRI should also include diffused weighted images and apparent diffusion coefficient (DWI/ADC).
- $^{
 m d}$ If electrocardiogram is abnormal and/or clinical symptoms arise, Holter monitoring is recommended.
- e Annual 24-hour Holter monitoring is recommended for males 30 years of age or older and females 40 years of age or older.
- Cardiac MRI is recommended at Fabry diagnosis for patients ages 25 and older. It is recommended to be performed under age 25 if cardiac hypertrophy or significant arrhythmia is present.
- ^{fl} If first MRI is abnormal: 1) patients with moderate or severe LVH receiving ERT should have MRI annually; 2) patients with significant arrhythmia should have MRI at least every 2 years or at frequency factoring cardiac disease severity and the physician's clinical judgment; 3) males with no or mild LVH receiving ERT should have MRI every 2 years.
- ¹² If first MRI is normal, repeat every 5 years or earlier if ECG/ECHO results are abnormal on annual exam.
- g If spirometry is abnormal, perform yearly.
- ^h Monitor yearly if retinal vessel tortuosity noted.
- ¹ See Section 15.1 of the Fabry Registry protocol for specific AE reporting guidelines and instructions.





A Collective Resource to Help Optimize Outcomes

The Fabry Registry is an ongoing, observational database sponsored by Genzyme that tracks natural history and outcomes of patients with Fabry disease. All Fabry patients are eligible for enrollment irrespective of their treatment status, and all physicians managing patients with Fabry disease are encouraged to participate in the Registry. The Fabry Registry is a global outcomes assessment and disease management program that compiles patient outcomes data from routine clinical practice to provide the medical community with resources to help optimize patient care.

Role of Participating Physicians

Participating physicians are requested to submit participating patients' data on a regular basis. It is recommended that data be submitted to the Registry according to the Recommended Schedule of Assessments (see reverse side) found in the Fabry Registry Protocol. In order to provide routine reports regarding participating patient status and current information to fulfill data requests, it is important that the data are submitted on a regular basis.

Benefits of Participation

Your contribution of participating patients' data to the Fabry Registry database benefits all other Registry participants, since it is pooled with other data to study trends or address specific questions.

The Fabry Registry Board of Advisors

Scientific direction and monitoring recommendations are provided to the Fabry Registry by a group of physicians participating in this Genzyme-sponsored Registry who have extensive experience in managing patients with Fabry disease. These physicians serve as primary liaisons between the Fabry community and the Registry in their geographic regions.

To enroll in the Registry or for future information, please contact:

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