## Workshop Summary

## **Issues in Presymptomatic Diagnoses of Lysosomal Storage Diseases**

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Newborn Screening Quality Assurance Program



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# Issues in Presymptomatic Diagnoses of Lysosomal Storage Diseases December 6 – 7, 2005

### Marriott Bethesda North Hotel and Conference Center

Hosted by:	National Newborn Screening and Genetics Resource Center – Austin, Texas
In collaboration with:	Health Resources and Services Administration
	Centers for Disease Control and Prevention
	National Institutes of Health
	American College of Medical Genetics
	Genzyme

### December 6, 2005

8:00 AM	Welcome	Brad Therrell, Ph.D. (NNSGRC)	
8:05 AM	Meeting Goals	Harry Hannon, Ph.D. (CDC)	
1997	Background and Issues		
	Moderator: Celia Kaye, M.D., Ph	D. (NNSGRC)	
8:15 AM	Newborn Screening for Lysosomal Storage Disorders (Tab C)		
	<ul> <li>Overview and Status</li> </ul>	Bob Vogt, Ph.D. (CDC)	
	<ul> <li>Current Research into NBS Protocols</li> </ul>	Joan Keutzer, Ph.D. (Genzyme)	
	<ul> <li>State Newborn Screening Program Activities</li> </ul>	Ken Pass, Ph.D. (NY DPH)	
9:00 AM	Introduction to Lysosomal Storage Disorders (Tab D)	Paul Fernhoff, M.D.	
		Emory University Medical School	

10:00 AM	The Challenges of Newborn Screening for Mucopolysaccharidosis (Tab E)	Joseph Muenzer, M.D., Ph.D. UNC Chapel Hill
10:40 AM	Clinical Overview and Update of Clinical Trials of Myozyme for Pompe Disease. The Role of Newborn Screening? (Tab F)	Priya Kishnani, M.D. Duke UMC
11:20 AM	Umbilical Cord Blood Transplantation for the Treatment of Infantile Krabbe Disease (Tab G	Maria Luisa Escolar, M.D. 9 UNC Chapel Hill
1:15 PM	Fabry disease –Is it Time for Newborn Screening? (Tab H)	Olaf Bodamer, M.D., Ph.D. University Children's Hospital, Vienna
1:55 PM	Gaucher disease: Impact of Genotype/Phenotype Correlations on Newborn Screening and Treatment (Tab I)	Gregory A. Grabowski, M.D. Cincinnati CHMC
2:35 PM	Newborn Screening for Acid Sphingomyelinase Deficiency: Niemann Pick A/B (Tab J)	Gerald Cox, M.D., Ph.D. Genzyme
3:30 PM	Neonatal Screening for X-Linked Adreno- leukodystrophy: Rationale and Strategy (Tab K)	Hugo W. Moser, M.D. Ann B. Moser, B.A. Kennedy Krieger Institute
4:10 PM	Summary	Edward Kaye, M.D. (Genzyme)
4:30 PM	Public Comments	
5:00 PM	Final Comments	Celia Kaye, M.D. (NNSGRC)

### Issues in Disease Follow-up

### Moderator: Rodney Howell, M.D. (SACHDGDNC)

#### **Research and Clinical Brief Reports** 8:15 AM Theoretical Benefits for Perinatal Treatment Deborah S. Barbouth, M.D. of MPS1 (Tab L) University of Miami School of Medicine Umbilical Cord Blood Galactocerebroside Levels William Krivit, M.D., Ph.D. for Choosing Appropriate Cord Bloods for University of Minnesota Transplantation (Tab M) Correction of a biomarker for Pompe disease by Dwight D. Koeberl, M.D., Ph.D. AAV vector-mediated gene therapy (Tab Mc) Duke University Medical Center Transplant Outcomes for Boys with Cerebral Charles Peters, M.D. X-ALD Diagnosed by Family History vs. by Children's Mercy Hospital Signs and Symptoms (Tab N) Kansas City, Missouri Intracranial Tumors in Patients with Mucopoly-Virginia Proud, M.D. Children's Hospital of The King's saccharidosis I: New Case and Literature Review Suggest Pathogenic Mechanisms and Need for Daughters, Norfolk, Virginia Surveillance (Tab 0) Pathogenesis of GM1 and GM2 Gangliosidoses Cynthia Tifft, M.D., Ph.D. and Avenues for Therapy Directed to the CNS Children's National Medical Center (Tab P) Washington, D.C. The Rationale, Methods, and Challenges Chester Whitley, M.D., Ph.D. University of Minnesota Medical School of Presymptomatic Diagnosis for Mucopolysaccharidoses and Implications for Other Lysosomal Disorders (Tab Q)

9:30 AM	<ul> <li>Practical Issues Regarding NBS Expansion (Tab R)</li> <li>Local issues</li> <li>Standardization issues</li> </ul>	Deborah Marsden, M.D. Children's Hospital Boston
10:30 AM	Confirmatory Testing Following a Positive Newborn Screen (Tab S)	David Wenger, Ph.D. Thomas Jefferson University
11:00 AM	Registries and Newborn Screening: What Can We Learn From Them? (Tab T)	Edward Kaye, M.D. Genzyme
11:30 AM	Storing Specimens for Translation Research (Tab U)	Bob Vogt, Ph.D. CDC
11:45 AM	Role of the Federal Agencies:	
	Advisory Committee on Heritable Disorders and Genetic Diseases in Newborns and Children (Tab V)	Michele Lloyd-Puryear, M.D., Ph.D. HRSA
	NIH Research Initiatives in Newborn Screening for Rare Disorders (Tab W)	James W. Hanson, M.D. NIH/NICHD
12:00 PM	Land A Diamanian	
	Lunch/Discussion	
1:00 PM	Lunch/Discussion Continued Discussion – Items for Inclusion in MMWR Reports and Recommendations	Воъ Vogt, Ph.D. CDC
1:00 PM	Continued Discussion – Items for Inclusion in	0.

**Workshop Follow-Up Activities** 

**Issues in Presymptomatic Diagnoses of Lysosomal Storage Diseases** 

**MMWR Report and Recommendations** (Publication Scheduled Dec 2006 - Jan 2007)

> Technical Issues Workshop (Anticipated late 2006 - early 2007)

NSTRI Laboratory Activities (Commencing February 2006)



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