

Section I. General Principles and a Phenomenology-Based Approach to Movement Disorders and Inherited Metabolic Disorders:

1. Treatable Metabolic Movement Disorders: the Top 10
2. The Importance of Movement Disorders in Inborn Errors of Metabolism
3. The Importance of Inborn Errors of Metabolism for Movement Disorders
4. Imaging in Metabolic Movement Disorders
5. Biochemical Testing for Metabolic Movement Disorders
6. Genetic Testing for Metabolic Movement Disorders
7. A Phenomenology-Based approach to inborn errors of metabolism with Ataxia
8. A Phenomenology-Based Approach to Inborn Errors of Metabolism with Dystonia
9. A Phenomenology-Based Approach to Inborn Errors of Metabolism with Parkinsonism
10. A Phenomenology-Based Approach to Inborn Errors of Metabolism with Spasticity
11. A Phenomenology-Based Approach to Inborn Errors of Metabolism with Myoclonus

Section II. A Metabolism-Based Approach to Movement Disorders and Inherited Metabolic Disorders:

12. Disorders of Amino Acid Metabolism: Amino Acid Disorders, Organic Acidurias, and Urea Cycle Disorders with Movement Disorders
13. Disorders of Energy Metabolism: Glut1 Deficiency Syndrome and Movement Disorders
14. Lysosomal Storage Disorders: Niemann-Pick Disease Type C and Movement Disorders
15. Lysosomal Storage Disorders: Neuronal Ceroid Lipofuscinoses and Movement Disorders
16. Syndromes of Neurodegeneration with Brain Iron Accumulation
17. Metal Storage Disorders: Inherited Disorders of Copper and Manganese Metabolism and Movement Disorders
18. Metal Storage Disorders: Primary Familial brain Calcification and Movement Disorders
19. Disorders of Glycosylation and Movement Disorders
20. Disorders of Post-translational Modifications / Degradation: Disorders of Autophagy and Movement Disorders
21. Neurotransmitter Disorders: Disorders of Dopamine Metabolism and Movement Disorders
22. Disorders of GABA Metabolism and Movement Disorders
23. DNAJC12-deficient Hyperphenylalaninemia – An Emerging Neurotransmitter Disorder
24. Vitamin-Responsive Disorders: Ataxia with Vitamin E Deficiency and Movement Disorders
25. Vitamin-Responsive Disorders: Biotin-Thiamin Responsive Basal Ganglia Disease and Movement Disorders
26. Disorders of Cholesterol Metabolism: Cerebrotendinous Xanthomatosis and Movement Disorders
27. Purine Metabolism Defects: the Movement Disorder of Lesch-Nyhan Disease
28. Disorders of Creatine Metabolism: Creatine Deficiency Syndromes and Movement Disorders
29. Hereditary Spastic Paraplegia Related Inborn Errors of Metabolism

Section III. Conclusions and Future Directions:

30. Metabolic Movement Disorders in the Era of Next-Generation Sequencing
31. Deep Brain Stimulation for Metabolic Movement Disorders

32. Novel Therapeutic Approaches to Metabolic Movement Disorders

Closing Remarks: A Clinical approach to Inherited Metabolic Movement Disorders.