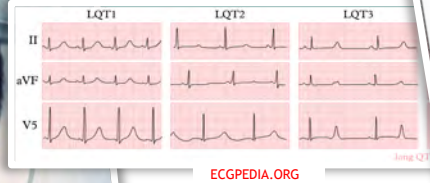
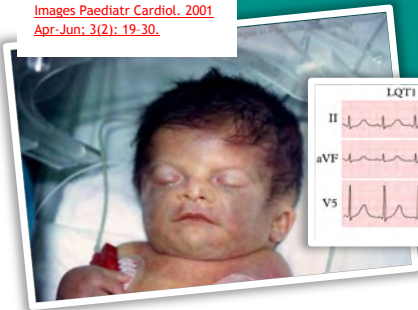
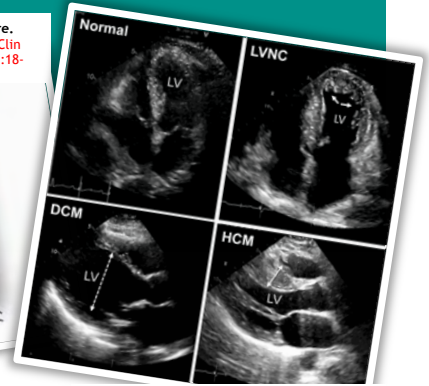


Targeted Gene Sequencing: Gene Panel

Neonatal Noonan syndrome.
[MC Digilio and B Marino](#)
[Images Paediatr Cardiol. 2001](#)
[Apr-Jun; 3\(2\): 19-30.](#)



Neonatal Seizure.
[Gucuyener K. J Clin Neonatol 2016;5:18-](#)



Cardiomyopathy. [Elizabeth M McNally¹ and Luisa Mestroni²](#) [Circ Res. 2017 Sep 15; 121\(7\): 731-748.](#) doi: [10.1161/CIRCRESAHA.116.309396](#)

Detects:

- Gene mutations in multiple genes

Advantages:

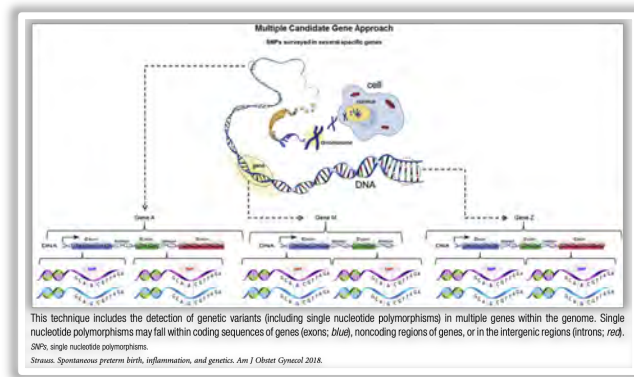
- Cost effective
- Evaluation of multiple genes simultaneously

Limitations:

- Evaluation limited to specific genes included in panel
- Panels vary by provider

Clinical Applications

- High index of suspicion for genetic condition where multiple different genes have been implicated



Gene Panel

Gene Panel Examples

Seizure Disorder

Cardiomyopathy

Rasopathy

Arrhythmia

Metabolic

Hearing

Musculoskeletal