### Postnatal Testing

- Various sample types
- Technical, analysis and Interpretation required
- Various technique can be used
- 4-6 weeks to submit results

- All EQA samples validated
- Detailed instructions provided
- Results assessed by expert panel
- Marking criteria based on professional guidelines
- ISO17043 accredited

<table>
<thead>
<tr>
<th>EQA</th>
<th>Type of EQA</th>
<th>Sample Type</th>
<th>Testing</th>
<th>Techniques</th>
<th>ISO17043 Accredited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood – Postnatal</td>
<td>Technical, analytical and interpretation</td>
<td>Online images</td>
<td>Whole genome analysis microscope</td>
<td>G-banded karyotype and FISH</td>
<td>✓</td>
</tr>
<tr>
<td>Chromosome Breakage syndromes</td>
<td>Technical, analytical and interpretation</td>
<td>Online images</td>
<td>Chromosome breakage for Fanconi anaemia, Blooms, Ataxia Telangiectasia, Nijmegen syndrome</td>
<td>Chromosomal techniques</td>
<td>X</td>
</tr>
<tr>
<td>Constitutional Copy Number Variation (CNV) - Postnatal</td>
<td>Technical, analytical and interpretation</td>
<td>DNA</td>
<td>Whole genome analysis (CNV)</td>
<td>Array/NGS</td>
<td>✓</td>
</tr>
<tr>
<td>Induced Pluripotent Stem (IPS) cells (pilot)</td>
<td>Technical, analytical and interpretation</td>
<td>Online images</td>
<td>Whole genome analysis, microscope and CNV</td>
<td>G-banded</td>
<td>X</td>
</tr>
<tr>
<td>Microdeletion syndromes (pilot) <em>NEW</em></td>
<td>Technical, analytical and interpretation</td>
<td>DNA/Fixed cells</td>
<td>Chromosomal regions with common microdeletions</td>
<td>MLPA/FISH</td>
<td>X</td>
</tr>
<tr>
<td>Severe developmental delay case scenario (pilot)</td>
<td>Interpretation only</td>
<td>Online images</td>
<td>Multiple tests/assays to detect genomic causes of severe developmental delay</td>
<td>Includes interpretation of supplied molecular and cytogenetic results</td>
<td>X</td>
</tr>
</tbody>
</table>

For further information on these EQAs contact us at info@genqa.org

Please see overleaf for more EQA information

Email: info@genqa.org
GenQA EQA Specialties

- Molecular Genetic Disorders
- Variant Classification and Interpretation
- Molecular Pathology
- Sample Handling: DNA extraction & quantification
- Newborn Screening
- Preimplantation Genetic Testing
- Haematological Neoplasms
- Technical: Next Generation Sequencing
- Constitutional Postnatal Testing
- Prenatal (including Non-Invasive) Testing
- Clinical Genetics
- Individual Competency Assessment (G-TACT / Tissue-i)

For further information, please contact us at info@genqa.org

The EQA Cycle

1. Receive validated EQA material plus clinical questions
2. Analyse material using routine procedures
3. Upload results
4. Expert evaluation of submissions
5. Compare laboratory performance (benchmark)
6. Education/Internal review/Quality improvement

2020 EQA

www.genqa.org

info@genqa.org