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| **Patient #**  | **Gene testing (WES, Panel, or not tested)\*** | **Mutation** | **Age of epilepsy onset**  | **Age of first EEG/ age of first abnormal EEG/ age of first paroxysmal EEG** | **Drug response (resistant/ undetermined/ responsive)** | **SE** | **Age/s of SE** |
| 1 | WES | E815K | 2 weeks | 5y/X/X | Responsive | Yes | Neonate,1y,2y |
| 2 | Panel | E815K | 1.5 y | 8/X/X | Resistant | Yes | 3y,4y,7y |
| 3 | Panel | E815K | 5 y | 5y/X/5y | Resistant | No | n/a |
| 4 | Panel | D801N | DOL 1 | 3y/5y/3y | Resistant | Yes | 3y,5y,5y |
| 5 | Panel | D801N | 2 mo | 1y/X/15y | Responsive | No | n/a |
| 6 | Panel | D801N | 2 mo | 9 mo/9 mo/X | Responsive | No | n/a |
| 7 | Panel | D801N | 6 y | 6 mo/6mo/X | Undetermined | Yes | 6y,7y |
| 8 | Panel | D801N | 14 y | 16y/23y/16y | Resistant | Yes | 16y,23y,24y |
| 9 | Panel | Y768H | DOL 1 | 22y/X/X | Resistant | Yes | 13y |
| 10 | Panel | C609Y | 1 mo | 7 y/10y/7 y | Resistant | No | n/a |
| 11 | Panel | L326R | 8 mo | 6y/X/6y | Resistant | Yes | 6y,7y |
| 12 | WES | G775C | 10 mo | 2/X/X | Resistant | No | n/a |
| 13 | WES | G89D | 1 y | 7y/X/7y | Resistant | No | n/a |
| 14 | WES | G89D | 2.25 y | 2.75y/X/2.75y | Resistant | No | n/a |
| 15 | WES | D923Y | 3 y | 4y/X/5.5y | Resistant | Yes | 3y,5y |
| 16 | Panel | G775C | 7 y | 3 mo/X/3 mo | Resistant | No | n/a |
| 17 | WES, Panel | Negative | 1 mo | 1 mo/X/1 mo | Resistant | No | n/a |
| 18 | WES, Panel | Negative | 1.5 mo | 2y/X/X | Resistant | Yes | 18 mo,18mo,4y |
| 19 | WES, Panel | Negative | 2 mo | 1.5y/6y/4y | Responsive | No | n/a |
| 20 | Panel | Negative | 4 mo | 6 mo/X/2.75y | Resistant | No | n/a |
| 21 | WES | Negative | 6 mo | 7y/X/7y | Responsive | Yes | 8y |
| 22 | WES, Panel | Negative | 10 mo | 6 mo /4.5y/3.5y | Resistant | No | n/a |
| 23 | WES | Negative | 1.33 y | 3y/3y/X | Responsive | No | n/a |
| 24 | WES | Negative | 1.5 y | 1.5y/6y/X | Resistant | No | n/a |
| 25 | WES, Panel | Negative | 2 y | 4y/X/5y | Resistant | No | n/a |
| 26 | WES, Panel | Negative | 2 y | 2.5y/X/2.5y | Undetermined | No | n/a |
| 27 | WES, Panel | Negative | 7 y | 3y/10y/3y | Resistant | Yes | 13y |
| 28 | Panel | Negative | 1y | 1.5 y/X/4 y | Resistant | No | n/a |
| 29 | Not tested | Unknown | Unknown | 19y/19y/X | Resistant | No | n/a |
| 30 | Panel | Negative | 2 mo | 3 mo/X/3 mo | Undetermined | No | n/a |
| 31 | Not tested | Unknown | 11 mo | 3y/X/3y | Resistant | No | n/a |
| 32 | WES, Panel | V589F | 2 mo | 1y/1y/1y | Resistant | Yes | 6 mo, 8 mo, 1.25y, 1.25y, 1.5y, 2y, 2y, 2.5y |
| 33 | Panel | Q851R | n/a | n/a | n/a | n/a | n/a |
| 34 | WES, Panel | Negative | n/a | n/a | n/a | n/a | n/a n/a |
| 35 | WES, Panel | Negative | n/a | n/a | n/a | n/a | n/a |
| 36 | Panel | E815K | n/a | n/a | n/a | n/a | n/a |
| 37 | Panel | D801N | n/a | n/a  | n/a | n/a | n/a |
| 38 | Panel | G947R | n/a | n/a | n/a | n/a | n/a |
| 39 | Panel | P336S | n/a | n/a | n/a | n/a | n/a |
| 40 | WES, Panel | Negative | n/a | n/a | n/a | n/a | n/a |
| 41 | Panel | A320T | n/a | n/a | n/a | n/a | n/a |
| 42 | Panel | D801N | n/a | n/a | n/a | n/a | n/a |
| 43 | Panel | E828K | n/a | n/a | n/a | n/a | n/a |
| 44 | WES | D801N | n/a | n/a | n/a | n/a | n/a |
| 45 | WES | Negative | n/a | n/a | n/a | n/a | n/a |
| 46 | WES | E828K | n/a | n/a | n/a | n/a | n/a |
| 47 | Not tested | Unknown | n/a | n/a | n/a | n/a | n/a |
| 48 | WES | R756H | n/a | n/a | n/a | n/a | n/a |
| 49 | WES | G89D | n/a | n/a | n/a | n/a | n/a |
| 50 | WES | Negative | n/a | n/a | n/a | n/a | n/a |
| 51 | Panel | L839P | n/a | n/a | n/a | n/a | n/a |

**Abbreviations:** Whole Exome Sequencing (WES); no abnormal EEG including diffuse slowing, focal slowing (X), no paroxysmal EEG (X)

\*All patients that were tested had Next Generation Sequencing and Sanger sequencing to confirm