**Supplemental Table S1:**

Details of programming parameters for each patient at last follow-up including types of electrodes and their locations. Patient 3 had a percutaneous quadripolar lead (PISCES, Medtronic) whereas all other patients had paddle leads (Resume TL, Medtronic). Paddle leads were either implanted in the region of the occipital nerve (Regional paddle) or directly on the occipital nerve via an open surgical approach (Paddle on occipital nerve). As expected, patients with a paddle electrode surgically implanted directly on the occipital nerve, had lower amplitude requirements than those with regional stimulation.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patients** | **Follow-up****(mos)** | **Leads** | **Contacts** | **Frequency****(Hz)** | **Pulse width****(µs)** | **Amplitude****(V)** | **Cycling** |
| **ON Time (min)** | **OFF Time (min)** |
| 1 | 32 | Regional paddle | 0- 2+ | 35 | 420 | 5.5 | 60 | 60 |
| 2 | 36 | Paddle on occipital nerve | 0- 3+ | 40 | 450 | 1 | 120 | 120 |
| 3 | 12 | Regional percutaneous | 0- 1- 2+ | 100 | 330 | 2.7 | 10 | 2 |
| 4 | 48 | Regional paddle | 0- 1+ 2+ 3+ | 110 | 420 | 0.8 | 60 | 60 |
| 5 | 36 | Paddle on occipital nerve | 1+ 2- | 60 | 360 | 1.75 | Constant |
| 6 | 75 | Regional paddle | 1- 2+ | 40 | 390 | 4 | 15 | 8 |
| 7 | 6 | Regional paddle | 1- 2+ 3+ | 35 | 390 | 4.5 | 100 ms | 500 ms |
| 8 | 60 | Paddle on occipital nerve | 1+ 2+ 3- | 60 | 450 | 0.9 | 10 | 10 |
| 9 | 12 | Regional paddle | 0- 1+ 2+ 3+ | 90 | 330 | 6.3 | 30 | 15 |
| 10 | 12 | Regional paddle | 1- 2- 3+ | 100 | 450 | 3 | 30 | 15 |
| 11 | 24 | Paddle on occipital nerve | 0- 1+ 2- 3+ | 30 | 450 | 1.1 | 30 | 15 |
| 12 | 24 | Bilateral regional paddles  |  |
| A1 | 0+ 1- 3- | 30 | 360 | 1.2 | 30 | 30 |
| A2 | 4- 5- 6+ | 30 | 420 | 0.7 | 30 | 30 |
| B1 | 0+ 1- 3- | 30 | 330 | 1.3 | 30 | 15 |
| B2 | 4- 5- 6+ | 30 | 330 | 0.8 | 30 | 15 |
| 13 | 12 | Regional paddle | 0- 1+ | 60 | 450 | 3 | Constant |