### Supplementary Table 1. Patient Medical History.

| Patient | **Psychiatric Medications** | **Somatic Medications** | **Medical Conditions** | **Substance Abuse** | **Alcohol Abuse** | **Episodic**a |
|---------|-----------------------------|-------------------------|------------------------|---------------------|------------------|---------------|
| 1       | Lithium (600 mg), Fluoxetine (40 mg), Clonazepam (0.5 mg) | Lamotrigine, Sulfà drugs | Allergies | No | No | No |
| 2       | Cipralex (10 mg), Vyvanse (40 mg), Zopiclone (7.5 mg), Mirtazapine (7.5 mg) | Eltroxin (0.075 mg) | Hypothyroidism | No | No | No |
| 3       | Levomilnacpran (40 mg), Lamotrigine (25 mg), Citalopram (40 mg) | Multivitamin (1 tablet) | N/A | No | No | No |
| 4       | Wellbutrin (300 mg), Trintellex (10 mg) | Vitamin D (tablet), B12 (tablet), Magnesium + Calcium (tablet), Pariet (20 mg), Diltiazem (240 mg), HCZ (12.5 mg), Ezetrol (20 mg), Tylenol (4x/day) | GERD, Hypercholesterol, Osteoarthritis, Back pain, Hypertension | Gravel/THC (clean 25 yrs) | Binge drinking (clean 5 yrs) | No |

*Episodic activity details (a) are not provided in the table.*
|   | Medication Details                                                                 |
|---|-----------------------------------------------------------------------------------|
| 5 | Clomipramine (30 mg), Quetiapine (125 mg), Sucralose, IBS, Sleep issues, THC (3 months clean) |
| 6 | Cipralex (20 mg), Ritalin (54 mg), Clonazepam (0.5 mg), Sublinox (10 mg), Seroquel (25 mg), Coversyl plus, Pantaloc, High BP, stomach ulcer |
| 7 | Wellbutrin (300 mg), N/A, N/A, No, No, Yes |
| 8 | Paroxetine (40 mg), Zopiclone (5 mg), Rovustatin, Dyslipidemia, Silent MI, Hysterectomy, Cholecystectomy |
| 9 | Venlafaxine (365 mg), Mirtazapine (15 mg), Trazodone (50 mg), Tamoxifen (20 mg), Pantoprazole (40 mg), Ketolorac (6 days, 20mg/6 hrs), Magnesium citrate (150 mg), Serokat, Calcium citrate (300 mg), Vitamin D3 (200 mg), Past breast cancer, Ulcer |
| 10 | Zoloft (200 mg), Ritalin (20 mg), Levothyroxine (0.125 mg), Peridno/Indapa (1.25 mg), Atoovastatin (20 mg), Obesity |
### Table

| Case | Medications | Aspirin (81 mg) | Testosterone, Suboxone (10 mg) | Opioids | No | No |
|------|-------------|----------------|-------------------------------|---------|----|----|
| 11   | Sertraline (100 mg), Quetiapine (300 mg), Lithium (600 mg), Clonazepam (1.25 mg) | Testosterone, Suboxone (10 mg) | N/A | Opioids | No | No |
| 12   | Viibyrd (10 mg) | Alopipatadine (2% w/v, once a day/eye) | N/A | No | No | No |

*aAll cases of chronic and episodic MDD had been at least two years long or consisted of at least two episodes, respectively. IBS=irritable bowel syndrome, GERD=gastroesophageal reflux disease.*