

SUPPLEMENT - Comorbidities

The data describes various diagnoses or conditions observed among individuals in the dataset. The conditions and their respective frequencies are as follows:

Medicated-Attention Deficit Hyperactivity Disorder (ADHD) (n=39)

- **Arthritis:** Observed in 1 case.
- **Atrioventricular Block:** Observed in 1 case.
- **Bipolar II Disorder:** Observed in 1 case.
- **Deficits in Attention, Motor Control, and Perception (DAMP):** Observed in 1 case.
- **Dyscalculia:** Observed in 1 case.
- **Dyslexia:** Observed in 1 case.
- **Emotionally Unstable Personality Disorder (EUPD):** Observed in 2 cases.
- **Mental and Behavioral Disorders Due to Opioid Dependence Syndrome:** Observed in 1 case.
- **Receptive Language Disorder:** Observed in 1 case.
- **Spastic Diplegia Cerebral Palsy:** Observed in 1 case.
- **Spinal Stenosis:** Observed in 1 case.

Unmedicated- Attention Deficit Hyperactivity Disorder (ADHD) (n=52)

- **Deficits in Attention, Motor Control, and Perception (DAMP):** Observed in 1 case.
- **Developmental Expressive Language Disorder:** Observed in 2 cases.
- **Diabetes Type II:** Observed in 1 case.
- **Dyslexia:** Observed in 4 cases.
- **Expressive Language Disorder:** Observed in 2 cases.
- **Heart Failure (previous):** Observed in 1 case.
- **Hypopituitarism:** Observed in 1 case.
- **Idiopathic Epilepsy:** Observed in 1 case.
- **Mental and Behavioral Disorders Due to Opioid Dependence Syndrome:** Observed in 1 case.
- **Obesity:** Observed in 1 case.
- **Personal History of Traumatic Brain Injury:** Observed in 1 case.
- **Sensorineural Hearing Loss:** Observed in 1 case.
- **Unspecified Bipolar Disorder:** Observed in 1 case.
- **Unspecified Social Phobia:** Observed in 1 case.

Autism Spectrum Disorder (ASD) (n=33)

- **Bulimia Nervosa:** Observed in 1 case.
- **Diaphragmatic Hernia Without Obstruction or Gangrene:** Observed in 1 case.
- **Dyscalculia:** Observed in 1 case.
- **Dyslexia:** Observed in 1 case.
- **Eating Disorder, Unspecified:** Observed in 1 case.
- **Emotionally Unstable Personality Disorder (EUPD):** Observed in 1 case.
- **Obsessive-Compulsive Disorder (OCD):** Observed in 1 case.
- **Other Specified Diseases of Pancreas:** Observed in 1 case.
- **Personality Disorder Not Otherwise Specified (PD-NOS):** Observed in 1 case.
- **Post-Traumatic Stress Disorder (PTSD):** Observed in 4 cases.
- **Scoliosis Unspecified:** Observed in 1 case.
- **Takayasu's Arteritis:** Observed in 1 case.
- **Thyrotoxicosis Unspecified:** Observed in 1 case.
- **Unspecified Non-Organic Psychosis:** Observed in 1 case.

Combination of Unmedicated Attention Deficit Hyperactivity Disorder (ADHD) and Autism Spectrum Disorder (ASD) (n=31)

- **Bone Tumor:** Observed in 1 case.
- **Bulimia Nervosa:** Observed in 1 case.
- **Crohn's Disease:** Observed in 1 case.
- **Dyscalculia:** Observed in 1 case.
- **Dysgraphia:** Observed in 1 case.
- **Dyslexia:** Observed in 2 cases.
- **Emotionally Unstable Personality Disorder (EUPD):** Observed in 3 cases.
- **Gender Identity Disorder (GID):** Observed in 1 case.
- **Mental and Behavioral Disorders Due to Multiple Drug Use and Use of Other Psychoactive Substances:** Observed in 1 case.
- **Pedophilia:** Observed in 1 case.
- **Tinnitus:** Observed in 1 case.
- **Tourette's Syndrome:** Observed in 1 case.
- **Other Disorders of the Pituitary Gland:** Observed in 1 case.

Control group (n=78)

- **Arthritis:** Observed in 1 case.
- **Asthma:** Observed in 1 case.
- **Atopic Dermatitis (unspecified):** Observed in 1 case.
- **Crohn's Disease:** Observed in 1 case.
- **Heart Failure (previous):** Observed in 1 case.
- **History of Hypophysis Tumor (operated):** Observed in 1 case.
- **Irritable Bowel Syndrome:** Observed in 1 case.
- **Menopausal and Female Climacteric States:** Observed in 1 case.
- **Premenstrual Tension Syndrome:** Observed in 1 case.
- **Psoriatic Arthritis:** Observed in 1 case.
- **Recurrent Depressive Disorder (in remission):** Observed in 1 case.
- **Ulcerative Colitis:** Observed in 1 case.

SUPPLEMENT – Medication Dosages and Active Ingredients

This supplement categorizes the medications by their active ingredients and provides a quantification of how often each medication and dosage appear in the dataset. It helps give an overview of the medications administered and their frequencies across the sample.

Medicated-Attention Deficit Hyperactivity Disorder (ADHD) (n=39)

Active Ingredient	Frequency	Dosage (mg)	Total Count (Dosage)
Bupropion	1	150	1
Dexamphetamine	2	5	2
	2*	5	1
	1*	20	1
	1	30	5
	1	40	4
	1	50	12
	1	60	4
Duloxetine	1	60	1
Enalapril	1	20	1
Fluoxetine	2	20	3
	3	20	1
Guanfacine	1	2	1
Hydroxyzine	1	12.5	1
Lamotrigine	1	100	2
	1	200	1
Levothyroxine	1	50	1
Melatonin	1	3	1
	1	5	6
	1	7.5	2
Methylphenidate	1	18	5
	1	20	1
	1	27.5	1
	2	30	1
	1	30	2
	1	36	5
	1	40	2
	1	45	1
	1	54	7
Mirtazapine	1	5	2
	1	7.5	2
Propiomazine	1	10	1
	1	25	2
Propranolol	2	40	1
Reboxetine	1	4	1
Sertraline	1	50	5
	2	100	1
	1	120	1

Venlafaxine	1	75	3
	1	225	1
Zolpidem	1	10	1

Notes: *= the person assumes the medication on demand.

Unmedicated-Attention Deficit Hyperactivity Disorder (ADHD) (n=52)

Active Ingredient	Frequency	Dosage (mg)	Total Count (Dosage)
Acetylsalicylic acid	1	75	1
Alimemazine	1*	20	1
Atorvastatin	1	80	1
Bisoprolol	1	5	1
Buprenorphine	1**	125	1
Bupropion	1	150	1
Citalopram	1	40	1
Escitalopram	2	10	1
Fluoxetine	2	20	1
Lamotrigine	1	150	2
Levothyroxine	1	137.5	1
	1	200	1
Melatonin	1	3	1
	1	10	1
Propiomazine	1	25	1
Propranolol	1*	10	1
Ramipril	1	10	1
Sertraline	1	50	1
	1	100	1
Spirolactone	1	12.5	1
Venlafaxine	1	37.5	1
	1	150	1
	1	225	1
Vortioxetine	1	10	1

Notes: *= the person assumes the medication on demand; **= One time per month.

Autism Spectrum Disorder (ASD) (n=33)

Active Ingredient	Frequency	Dosage (mg)	Total Count (Dosage)
Acetylsalicylic acid	1	75	1
Agomelatine	1	25	1
Aripiprazole	1	10	1
Atorvastatin	1	40	1
Bisoprolol	1	5	1
	1	2.5	1
	2	25	1
Bupropion	1	300	1
Duloxetine	1	20	1
Diazepam	1	30	1
Doxazosin	1	8	1
Escitalopram	1	10	1
	4	20	1
Fluoxetine	5	20	1
	2	30	1
Hydroxyzine	1	25	1
Lamotrigine	1	50	1
	1	100	1
	1	200	1
	2	300	1
	1	400	1
Levomeprazine	2	25	1
Levothyroxine	1	100	1
Melatonin	3	5	1
	2	10	1
Metoprolol	1	25	1
Mirtazapine	1	30	1
Olanzapine	1	10	1
Oxazepam	1	10	1
Paroxetine	3	20	1
Propiomazine	5	25	1
	1	32.5	1
Propranolol	1	40	1
Promethazine	1	15	1
	2	25	1
Quetiapine	2	25	1
	3	100	1
Ramipril	1	10	1
Risperidone	1	1	1
Sarilumab	1	2**	1
Sertraline	2	50	1
	3	100	1
	1	200	1
Valsartan	1	320	1
Venlafaxine	3	150	1
	1	225	1

	1	300	1
Vortioxetine	1	10	1
Zolpidem	1	10	1
Zopiclone	2	5	1

Notes: *= the person assumes the medication on demand; **= One time per month.

Unmedicated-Attention Deficit Hyperactivity Disorder (ADHD) and Autism Spectrum Disorder (ASD) (n=31)

Active Ingredient	Frequency	Dosage (mg)	Total Count (Dosage)
Duloxetine	1	60	1
Enalapril	1	100	1
Escitalopram	1	5	1
Fluoxetine	2	20	1
	2	60	1
Hydroxyzine	4	25	1
Insulin glargine	1	300 (ml)	1
Lamotrigine	1	10	1
	1	250	1
	2	300	1
Levothyroxine	1	50	1
	1	75	1
	1	125	1
Melatonin	1	2	1
	2	4	1
	1	5	1
	3	10	1
Mirtazapine	2	15	1
Olanzapine	3	5	1
	1	30	1
Oxazepam	1	5	1
	3	10	1
Pregabalin	2	150	1
Propiomazine	1	12.5	1
	4	25	1
	1	32.5	1
Quetiapine	3	25	1
	1	50	1
Sertraline	1	50	1
	4	100	1
	1	200	1
Somatropin	1	12	1
Vortioxetine	1	5	1
	3	10	1
Venlafaxine	1	225	1
	1	37.5	1
	2	75	1
Zopiclone	1*	5	1
	1	7.5	1

Notes: *= the person assumes the medication on demand.

Control group (n=78)

Active Ingredient	Frequency	Dosage (mg)	Total Count (Dosage)
Adalimumab	2**	40	1
Allergy pill	1*	-	1
Azathioprine	1	-	1
Betablocker	1	100	1
Cetirizine	1	-	1
Citalopram	1	30	1
Enalapril	1	5	1
Isotretinoin	1	-	1
Melatonin	1*	4	1
Progesterone	1	-	1
Sertraline	1	100	1
	1	150	1
Sumatriptan	1*	-	1

Notes: *= the person assumes the medication on demand; **= Two times per month; -= Dosage not listed because the person does not remember the specific amount.

SUPPLEMENT – Psychometric Properties

We calculated the concurrent validity for the exploratory neuropsychological tests.

The concurrent validity between **Motor Speed**, subtest of *Trail Making Test* of *Delis-Kaplan Executive Function System (D-KEFS)* and **Motor Time**, subtest of *Bender-Gestalt II* in our sample was $\rho=0.52$ ($p<.001$) and the split-half reliability was $rs=0.69$. The concurrent validity between the **Perception Time**, subtest of *Bender-Gestalt II* and **Symbol Search**, subtests of *Wechsler Adult Intelligence Scale (WAIS-IV)* in our sample was $r=-0.72$ ($p<.001$), and the split-half reliability was $rs=0.77$.

The concurrent validity between **Copy Task**, *Visual Reproduction II (VR-II)* of *Wechsler Memory Scale III (WMS-III)* and **Cube Analysis**, subtests of *Visual Object and Space Perception Battery (VOSP)* in our sample was $\rho=0.28$ ($p<.001$) as well, between **Copy Task**, *Visual Reproduction II (VR-II)* of *Wechsler Memory Scale III (WMS-III)* and **Silhouettes**, subtests of *Visual Object and Space Perception Battery (VOSP)* was $\rho=0.20$ ($p=.002$).