

## DAFTAR ISI

HALAMAN PENGESAHAN.....	ii
PERNYATAAN BEBAS PLAGIASI .....	iii
PRAKATA.....	iv
DAFTAR ISI.....	vi
DAFTAR TABEL.....	viii
DAFTAR GAMBAR .....	ix
DAFTAR SINGKATAN .....	x
DAFTAR LAMPIRAN.....	xii
BAB I .....	1
A. Latar Belakang .....	1
B. Perumusan Masalah .....	3
C. Pertanyaan Penelitian .....	3
D. Tujuan Penelitian .....	3
E. Manfaat Penelitian .....	3
F. Keaslian Penelitian.....	4
BAB II.....	7
A. <i>Internet Gaming Disorder</i> .....	7
1. Definisi .....	7
2. Patofisiologi.....	7
3. <i>Diagnosis Internet Gaming Disorder</i> .....	11
B. <i>Electroencephalography (EEG)</i> .....	13
1. Dasar <i>Electroencephalography (EEG)</i> .....	13
2. <i>Quantitative Electroencephalography (QEEG)</i> .....	16
3. Koherensi.....	17
C. Peran <i>Electroencephalography</i> pada <i>Internet Gaming Disorder</i> .....	18
D. Kerangka Teori.....	24
E. Kerangka Konsep .....	25
F. Hipotesis.....	25
BAB III .....	26



A. Rancangan Penelitian .....	26
B. Populasi dan Subjek Penelitian .....	26
C. Besar Sampel.....	26
D. Tempat dan Waktu Penelitian .....	27
E. Variabel Penelitian dan Definisi Operasional Variabel .....	28
F. Alat Ukur.....	29
G. Prosedur Penelitian.....	29
H. Alur Penelitian .....	30
I. Analisis Penelitian.....	30
J. Etika Penelitian .....	31
K. Jadwal Penelitian.....	31
BAB IV .....	32
A. Sampel Penelitian.....	32
B. Analisis Diskriptif .....	32
C. Analisis Bivariat Koherensi QEEG.....	36
D. Keterbatasan Penelitian .....	43
BAB V.....	44
A. Simpulan .....	44
B. Saran.....	44
DAFTAR PUSTAKA .....	45
LAMPIRAN.....	54
DOKUMENTASI KEGIATAN.....	57

## DAFTAR TABEL

Tabel 1. Perbandingan dengan penelitian terdahulu .....	5
Tabel 2. Peran EEG pada <i>Internet Gaming Disorder</i> .....	22
Tabel 3. Peran EEG pada <i>Internet Addiction Disorder</i> .....	23
Tabel 4. Uji statistik penelitian .....	31
Tabel 5. Jadwal penelitian .....	31
Tabel 6. Karakteristik Demografi Sampel Penelitian .....	33
Tabel 7. Perbandingan Koherensi QEEG antara IGD dan non-IGD .....	38
Tabel 8. Koherensi QEEG Antara IGD dan non-IGD Regio Frontal .....	42
Tabel 9. Koherensi QEEG Regio Fronto-Parietal .....	42
Tabel 10. Koherensi QEEG Regio Fronto-Temporal .....	42



## DAFTAR GAMBAR

Gambar 1.	Jalur sistem dopamin .....	9
Gambar 2.	EEG 20 channel .....	14
Gambar 3.	Koherensi inter-hemisfer dan intra-hemisfer .....	17
Gambar 4.	Kerangka teori.....	24
Gambar 5.	Kerangka konsep.....	25
Gambar 6.	Alur penelitian .....	30

## DAFTAR SINGKATAN

ADHD	: <i>Attention Deficit Hyperactivity Disorder</i>
ARAS	: <i>Ascending Reticular Activating System</i>
ASD	: <i>Autism Spectrum Disorder</i>
AUD	: <i>Alcohol Use Disorder</i>
AUDIT	: <i>Alcohol Use Disorders Identification Test</i>
BAI	: <i>Beck's Anxiety Inventory</i>
BDI	: <i>Beck's Depression Inventory</i>
BIS-11	: <i>Barratt's impulsiveness scale</i>
C	: <i>Central</i>
CBT	: <i>Cognitive Behavioral Therapy</i>
CDI	: <i>Children's Depression Inventory</i>
CI	: <i>Confidence Interval</i>
COMT	: <i>Catechol-O-Methyltransferase</i>
Covid-19	: <i>Corona Virus-19</i>
DA	: <i>Dopamin</i>
DISC-IV	: <i>Diagnostic Interview Schedule for Children Version IV</i>
DLPFC	: <i>Dorsal Lateral Prefrontal Cortex</i>
DRD2	: <i>Dopamine Receptor D2</i>
DSM-5	: <i>Diagnostic and Statistical Manual for Mental Disorders-5</i>
DTI	: <i>Diffusion Tensor Imaging</i>
EEG	: <i>Electroencephalograph</i>
F	: <i>Frontal</i>
FA	: <i>Fractional Anisotropy</i>
FFT	: <i>Fast Fourier Transform</i>
FKKMK	: <i>Fakultas Kedokteran, Kesehatan Masyarakat, dan Keperawatan</i>
fMRI	: <i>Functional Magnetic Resonance Imaging</i>
FP	: <i>Frontal Pole</i>
GABA	: <i>Gamma- Amino Butyric Acid</i>
GAS-7	: <i>Game Addiction Scale-7</i>

IAD	: <i>internet addiction disorder</i>
IAT	: <i>Internet Addiction Test</i>
ICD	: <i>International Classification of Diseases and Related Health</i>
IGD	: <i>Internet Gaming disorder</i>
ITB	: Institut Teknologi Bandung
K-ARS	: <i>Korean version of ADHD Rating Scale</i>
K-scal	: <i>Korean Internet Addiction Self-scale</i>
MDD	: <i>Major Depressive Disorder</i>
MMORPG	: <i>Massively Multiplayer Online Role-Playing Game</i>
O	: Occipital
OAE	: Obat Anti Epilepsi
OCD	: <i>Obsessive Compulsive Disorder</i>
OR	: <i>Odds Ratio</i>
P	: Parietal
PCC	: <i>Posterior Cingulate Cortex</i>
PE	: <i>Physical Exercise</i>
PFC	: <i>Prefrontal Cortex</i>
QEEG	: <i>Quantitative Electroencephalography</i>
rGMV	: <i>Regional Gray Matter Volume</i>
RSUP	: Rumah Sakit Umum Pusat
SCID	: <i>Structured Clinical Interview for the Diagnostic and Statistical Manual of Mental Disorders-IV</i>
SMP	: Sekolah Menengah Pertama
SN	: <i>Substansia Nigra</i>
SPSS	: <i>Statistical Package for the Social Sciences</i>
SSRI	: <i>Selective Serotonin Inhibitors</i>
SUD	: <i>Substance Use Disorder</i>
T	: Temporal
VTA	: <i>Ventral Tegmental Area</i>
WHO	: <i>World Health Organization</i>
YIAS	: <i>Young's Internet Addiction Scale</i>



## DAFTAR LAMPIRAN

Kuesioner Penelitian .....	55
Persetujuan Komite Etik .....	57
Dokumentasi penelitian.....	58