TABLE OF CONTENT

CHAPTER I. INTRODUCTION

CHAPTER II. BIBLIOGRAPHICAL REVIEW

The Association Between Serotonin Metabolite Level and The Degree of Pain in Patients with Rheumatoid Arthritis
CYNTHIA MAHARANI, Dr. dr. Ronny Tri Wirasto, Sp.KJ; dr. Irwan Supriyanto, Ph.D., Sp.KJ
vii

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

LIST OF ABBREVIATION

5-HIAA	=	5-hydroxyindolacetic acid
5-HT	=	5-hydroxytryptophan
ACR	=	American College of Rheumatology
anti-TNF	=	anti-tumor necrosis factor
BMI	=	body mass index
CNS	=	central nervous system
DMARD	=	disease modifying antirheumatic drug
ELISA	=	enzyme-linked immunosorbent assay
ESR	=	erythrocyte sedimentation rate
FPSs	=	faces pain rating scale
MAOA	=	monoamino oxidase A
NPRS	=	numeric pain rating scale
NRSs	=	numerical rating scale
OA	=	osteoarthritis
SERT	=	serotonin reuptake transporter
SPSS	=	statistical package for the social sciences

The Association Between Serotonin Metabolite Level and The Degree of Pain in Patients with Rheumatoid Arthritis
CYNTHIA MAHARANI, Dr. dr. Ronny Tri Wirasto, Sp.KJ; dr. Irwan Supriyanto, Ph.D., Sp.KJ
xii

TGF-   = transforming growth factor

RA   = rheumatoid arthritis

RF   = rheumatoid factor

VAS   = visual analogue scales

VMAT   = vesicular monoamine transporter

VRSs   = verbal rating scales