

DAFTAR ISI

| | |
|---|------|
| HALAMAN JUDUL | i |
| HALAMAN PENGESAHAN | ii |
| PERNYATAAN BEBAS PLAGIASI | iv |
| PRAKATA..... | v |
| DAFTAR ISI..... | vii |
| DAFTAR TABEL..... | ix |
| DAFTAR GAMBAR | x |
| DAFTAR LAMPIRAN..... | xi |
| DAFTAR SINGKATAN | xii |
| INTISARI | xiii |
| ABSTRACT..... | xiv |
| BAB I..... | 1 |
| A. Latar Belakang | 1 |
| B. Perumusan Masalah..... | 3 |
| C. Tujuan Penelitian..... | 3 |
| D. Keaslian Penelitian | 4 |
| E. Manfaat Penelitian | 5 |
| BAB II..... | 6 |
| A. Tinjauan Pustaka | 6 |
| 1. Anatomi dan Fisiologi Jantung..... | 6 |
| 2. Asam Urat..... | 7 |
| 3. Vitamin D | 11 |
| 4. Marker Inflamasi | 14 |
| B. Kerangka Teori..... | 17 |
| C. Kerangka Konsep | 18 |
| D. Hipotesis..... | 18 |
| BAB III | 19 |
| A. Rancangan Penelitian | 19 |
| B. Populasi dan Subjek Penelitian | 19 |
| C. Alat dan Bahan Penelitian | 20 |
| 1. Alat Penelitian | 20 |
| 2. Bahan Penelitian | 21 |

| | | |
|----------------|--|----|
| D. | Alur Penelitian..... | 23 |
| E. | Variabel Penelitian..... | 24 |
| F. | Definisi Operasional | 24 |
| G. | Prosedur Penelitian..... | 25 |
| 1. | Tempat Penelitian | 25 |
| 2. | Persiapan Hewan Coba..... | 26 |
| 3. | Pengelompokan dan Perlakuan Hewan Coba..... | 26 |
| 4. | Terminasi Hewan Coba dan Pengambilan Organ..... | 27 |
| 5. | Ekstraksi RNA..... | 28 |
| 6. | Sintesis cDNA (<i>complementary DNA</i>)..... | 29 |
| 7. | <i>Reverse Transcriptase Polymerase Chain Reaction</i> (RT-PCR)..... | 30 |
| 8. | Elektroforesis..... | 30 |
| 9. | Pewarnaan Imunohistokimia Anti-CD68..... | 31 |
| 10. | Visualisasi Inflamasi..... | 32 |
| H. | Konsiderasi Etik..... | 33 |
| I. | Analisis Data..... | 33 |
| BAB IV | | 34 |
| A. | Hasil Penelitian | 34 |
| 1. | Data..... | 34 |
| 2. | Ekspresi mRNA NF- κ B..... | 34 |
| 3. | Ekspresi mRNA MCP-1 | 36 |
| 4. | Visualisasi Inflamasi Jantung (IHC anti-CD 68)..... | 38 |
| B. | Pembahasan..... | 40 |
| BAB V | | 45 |
| A. | Kesimpulan..... | 45 |
| B. | Saran..... | 45 |
| DAFTAR PUSTAKA | | 46 |
| LAMPIRAN | | 51 |