

Lampiran 1

Tabel untuk pengumpulan data :

| Diagnosa Penyakit | Usia | Terapi Metilprednisolon | | | |
|-------------------|------|-------------------------|-----------|--------|--|
| | | Dosis | Frekuensi | Durasi | Dosis total (Dosis x frekuensi x durasi) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Nilai Densitas Mineral Tulang (g/cm ²) | | | | | | |
|--|----------|----------|----------|--------------|-----------------|------------|
| Spine L1 | Spine L2 | Spine L3 | Spine L4 | Femoral Neck | Ward's Triangle | Trochanter |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



Lampiran 2

LEMBAR PENGUMPULAN DATA (PASIEEN NO.)

A. Data Pasien

Nama :

Jenis Kelamin : (P/L)

Usia :Tahun

Status menopause :

Tinggi badan :cm

Berat badan :Kg

Jenis penyakit (LES/AR) :

Aktivitas penyakit :

Penyakit lain :

Riwayat pengobatan :

Riwayat sosial :

Riwayat keluarga :

B. Penggunaan Steroid

| Penggunaan Terapi Glukokortikoid | |
|----------------------------------|--|
| Mulai Terapi | |
| Jenis | |
| Dosis | |
| Durasi | |
| Frekuensi | |
| Rute Pemberian | |

C. Data DMT

| DMT | Nilai DMT (g/cm ²) | T-Skor |
|-----------------|--------------------------------|--------|
| Spine L1 | | |
| Spine L2 | | |
| Spine L3 | | |
| Spine L4 | | |
| Total Spine | | |
| Femoral Neck | | |
| Ward's Triangle | | |
| Trochanter | | |





**RUMAH SAKIT UMUM DAERAH
Dr SAIFUL ANWAR**
Jl. Jaksa agung Suprpto No.2 Malang
KOMISI ETIK PENELITIAN KESEHATAN
TERAKREDITASI KARS VERSI 2012 TINGKAT PARIPURNA
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**KETERANGAN KELAIKAN ETIK
("ETHICAL CLEARANCE")**

No: 400/152/K.3/302 /2016

KOMISI ETIK PENELITIAN KESEHATAN RSUD Dr SAIFUL ANWAR MALANG, SETELAH MEMPELAJARI DENGAN SEKSAMA RANCANGAN PENELITIAN YANG DIUSULKAN, DENGAN INI MENYATAKAN BAHWA PENELITIAN DENGAN

Judul : Hubungan terapi Glukokortikoid Dengan NilaiDensitas mineral Tulang Pada pasien Arthritis Reumatoid dan Lupus Eritematosus Sistemik (Penelitian di Poliklinik Reumatologi RSUD Dr. Saiful Anwar (RSSA) Kota Malang)

PENELITI UTAMA: Niela Rizki Amalia

UNIT / LEMBAGA / TEMPAT PENELITIAN

RSUD Dr Saiful Anwar Malang

DINYATAKAN LAIK ETIK

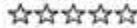
MALANG, 21 November 2016

KETUA TIM KOMISI ETIK PENELITIAN

Dr. dr. Pudji Rahaju, SpTHT-KL (K)



PEMERINTAH PROVINSI JAWA TIMUR
RUMAHSAKIT UMUM DAERAH Dr. SAIFUL ANWAR
TERAKREDITASI KARS VERSI 2012 TINGKAT PARIPURNA



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RSSA

NOTA DINAS

Kepada : Kepala Instalasi Rawat Jalan
Dari : Kepala Bidang Diklit
RSUD Dr. Saiful Anwar Malang
Tanggal : 01 - 12 - 2016
Nomor : 070/1057 /1.20/302/2016
Sifat : Biasa
Lampiran : --
Perihal : Penghadapan Penelitian bagi Mahasiswa Program Studi Farmasi
Fakultas Kedokteran Universitas Brawijaya Malang a.n Niela Rizki
Amalia

Menindaklanjuti surat dari Direktur RSUD Dr. Saiful Anwar Malang No. 070/1057/302/2016 tanggal 01 Desember 2016 perihal Izin Penelitian, bersama ini kami hadapkan Mahasiswa tersebut untuk melaksanakan penelitian di satuan kerja yang Saudara pimpin pada bulan Desember 2016 s/d Januari 2017 sesuai dengan judul proposal, atas nama:

| No | Nama/NIM | Institusi | Judul Proposal |
|----|---|--|--|
| 1. | Niela Rizki Amalia NIM. 135070507111002 | Fak. Kedokteran Universitas Brawijaya Malang | Hubungan Terapi Glukokortikoid Dengan Nilai Mineral Tulang Pada Pasien Arthritis Reumatoid dan Lupus Eritematosus (Penelitian di Poliklinik Reumatologi RSUD Dr. Saiful Anwar Malang) |

Setelah yang bersangkutan selesai melaksanakan penelitian, mohon Saudara informasikan tertulis kepada kami bahwa yang bersangkutan telah selesai melaksanakan penelitian di satuan kerja yang Saudara pimpin, sebagai dasar kami membuat Surat Keterangan Selesai Penelitian bagi yang bersangkutan.

Demikian atas perhatian dan kerjasama Saudara, diucapkan terima kasih.

Kepala Bidang Pendidikan & Penelitian

SRI ENDAH NOVIANI, SH., M.Sc.
Pembina Tingkat I
NIP. 19631103 199103 2 004

Tembusan :
1. KPP Instalasi Rawat Jalan
2. Koordinator Diklit IRJ
RSUD Dr. Saiful Anwar Malang

Lampiran 5

PENJELASAN UNTUK MENGIKUTI PENELITIAN

1. Saya adalah Niela Rizki Amalia Jurusan Farmasi dengan ini meminta anda untuk berpartisipasi dengan sukarela dalam penelitian yang berjudul "Hubungan Terapi Glukokortikoid dengan Nilai Densitas Mineral Tulang Pada Pasien Artritis Reumatoid dan Lupus Eritematosus Sistemik (Penelitian di Poliklinik Reumatologi RSUD dr. Saiful Anwar (RSSA) Kota Malang)".

2. Tujuan dari penelitian ini adalah untuk melihat bagaimana pola penggunaan glukokortikoid pada pasien autoimun khususnya Artritis Reumatoid (AR) dan Lupus Eritematosus Sistemik (LES) di Rumah Sakit Umum Daerah Saiful Anwar yang meliputi jenis glukokortikoid, dosis, durasi, frekuensi, dan rute pemberian glukokortikoid pada pasien. Penelitian ini juga bertujuan untuk mengetahui apakah terdapat hubungan jenis glukokortikoid, dosis total, durasi pemberian dan rute pemberian glukokortikoid terhadap penurunan nilai Densitas Mineral Tulang pada pasien AR dan LES yang telah diberikan terapi glukokortikoid minimal selama 3 bulan.

Penelitian ini juga dapat memberi manfaat yaitu dapat menambah wawasan ilmu pengetahuan yang meliputi pola penggunaan glukokortikoid pada pasien AR dan LES di Rumah Sakit Umum Daerah Saiful Anwar dan dapat menjadi pedoman dalam penggunaan glukokortikoid serta sebagai bukti adanya hubungan jenis glukokortikoid, dosis total, durasi dan frekuensi terhadap penurunan nilai Densitas Mineral Tulang dalam penggunaan glukokortikoid yang perlu dilakukan monitoring dan pencegahan agar efek samping ini dapat diminimalisir. Penelitian ini akan berlangsung selama dua bulan dan sampel berupa data klinik yaitu nilai Densitas Mineral Tulang, data pola penggunaan terapi glukokortikoid yang meliputi jenis glukokortikoid, dosis, durasi, frekuensi dan rute pemberian yang akan diambil dengan

cara melihat data rekam medis dan hasil wawancara pada subyek penelitian.

3. Prosedur pengambilan sampel data klinik yaitu nilai Densitas Mineral Tulang, data pola penggunaan terapi glukokortikoid yang meliputi jenis glukokortikoid, dosis, durasi, frekuensi dan rute pemberian, dimana cara ini mungkin menyebabkan kekhawatiran terhadap terjaganya kerahasiaan identitas subyek penelitian tetapi anda tidak perlu kuatir karena identitas akan dijaga 100% kerahasiaannya dan pada penelitian ini tidak akan menimbulkan efek samping apapun.
4. Keuntungan yang anda peroleh dalam keikutsertaan anda adalah mendapatkan informasi terkait dengan efek samping yang dapat ditimbulkan akibat penggunaan glukokortikoid selama jangka panjang yaitu terkait dengan penurunan nilai Densitas Mineral Tulang.
5. Seandainya anda tidak menyetujui cara ini maka anda dapat memilih cara lain yaitu tidak melakukan wawancara mengenai pola penggunaan terapi glukokortikoid yang meliputi jenis glukokortikoid, dosis, durasi, frekuensi dan rute pemberian atau anda boleh tidak mengikuti penelitian ini sama sekali, dan tidak akan mempengaruhi pelayanan rumah sakit terhadap anda
6. Nama dan jati diri anda akan tetap dirahasiakan
7. Keputusan ini dibuat pasien setelah menerima penjelasan dari peneliti.

PENELITI

(NIELA RIZKI AMALIA)

**PERNYATAAN PERSETUJUAN UNTUK
BERPARTISIPASI DALAM PENELITIAN**

Saya yang bertanda tangan dibawah ini menyatakan bahwa:

1. Saya telah mengerti tentang apa yang tercantum dalam lembar penjelasan diatas dan telah dijelaskan oleh peneliti
2. Dengan ini saya menyatakan bahwa secara sukarela bersedia / tidak bersedia *) untuk ikut serta menjadi salah satu subjek penelitian yang berjudul "Hubungan Terapi Glukokortikoid dengan Nilai Densitas Mineral Tulang Pada Pasien Artritis Reumatoid dan Lupus Eritematosus Sistemik (Penelitian di Poliklinik Reuamtologi RSUD dr. Saiful Anwar (RSSA) Kota Malang)"

Malang.....,2016/2017

Peneliti

Saksi 1

Yang membuat pernyataan

(Niela Rizki Amalia)

(.....)

(.....)

NIM 135070507111002

Saksi 2

Saksi 3

(.....)

(.....)

*) Coret salah satu

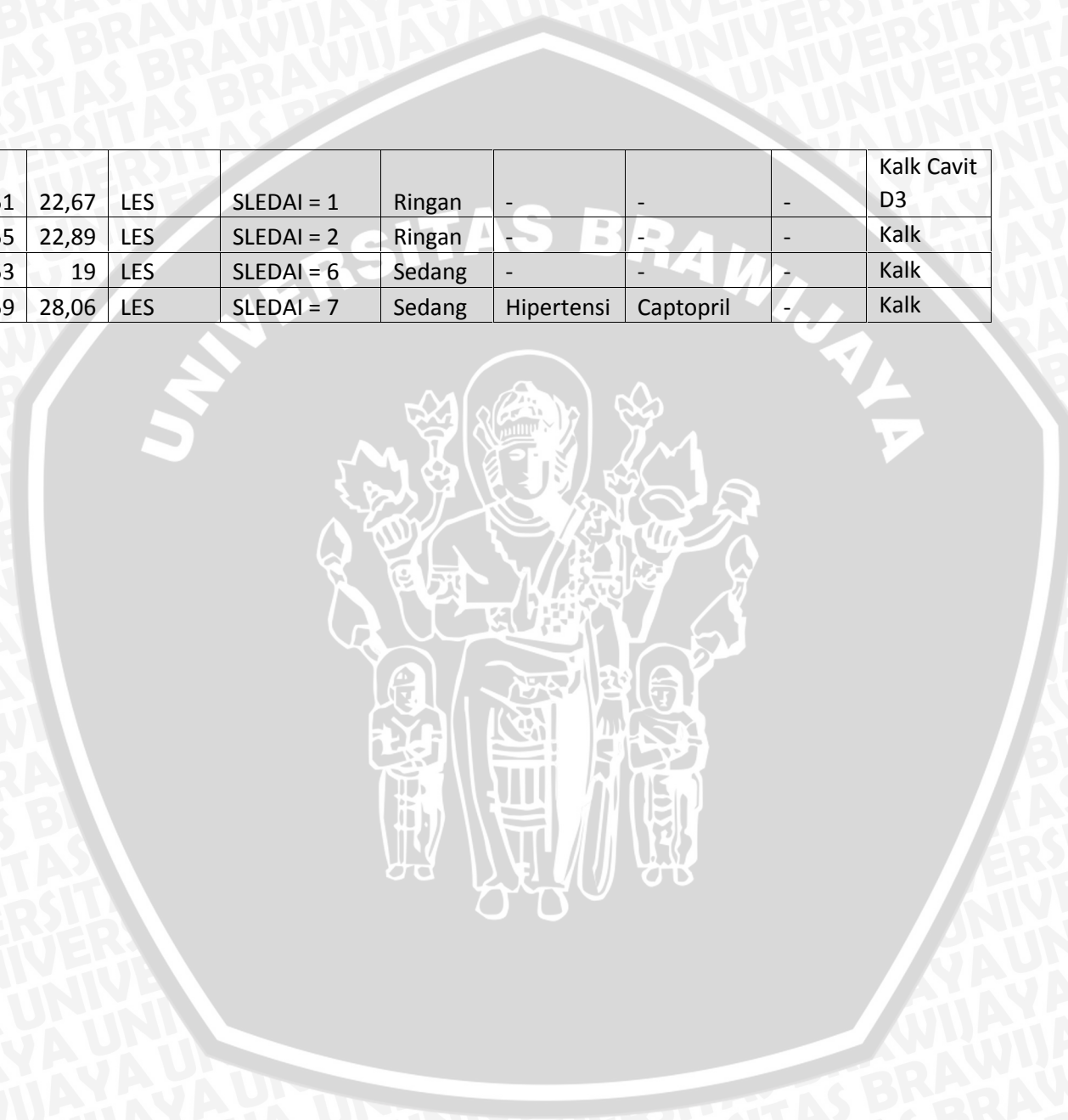
Lampiran 6

A. Data Demografi dan Riwayat Penyakit Pasien

| Kode Pasien | Usia | Tinggi | Berat | IMT | Jenis Penyakit | Aktifitas Penyakit | Kategori | Penyakit lain | Riwayat Pengobatan | Susu | Kalsium dan Vit D |
|-------------|------|--------|-------|-------|----------------|--------------------|----------|-----------------------|--------------------|------|-------------------|
| 1 | 43 | 155 | 61 | 25,39 | AR | DAS 28 = 3,2 | Ringan | Hipertensi | Amlodipin | - | Osteopot |
| 2 | 34 | 158 | 48 | 19,23 | LES | SLEDAI = 3 | Ringan | - | - | - | No |
| 3 | 43 | 170 | 54 | 18,68 | LES | SLEDAI = 9 | Sedang | - | - | - | Calos |
| 4 | 35 | 148 | 56 | 25,56 | LES | SLEDAI = 6 | Sedang | - | - | - | No |
| 5 | 46 | 150 | 54 | 24 | LES | SLEDAI = 3 | Ringan | - | - | - | Kalk |
| 6 | 39 | 168 | 55 | 19,48 | LES | SLEDAI = 5 | Ringan | - | - | - | Kalk 1x1 |
| 7 | 47 | 158 | 61 | 24,44 | AR | DAS 28 = 2,8 | Ringan | - | - | - | Kalk |
| 8 | 41 | 145 | 42 | 19,98 | AR | DAS 28 = 3,2 | Ringan | Alkilosis Spondilitis | - | - | Kalk |
| 9 | 41 | 160 | 62 | 24,22 | AR | DAS 28 = 2,3 | Ringan | - | - | - | Kalk |
| 10 | 42 | 153 | 56 | 23,92 | LES | SLEDAI = 5 | Ringan | - | - | - | Kalk |
| 11 | 44 | 154 | 50 | 21,08 | AR | DAS 28 = 2,6 | Ringan | - | - | - | Kalk |
| 12 | 46 | 155 | 47 | 19,56 | LES | SLEDAI = 3 | Ringan | - | - | - | Biocal |
| 13 | 31 | 165 | 47,5 | 17,45 | LES | SLEDAI = 3 | Ringan | - | - | - | Kalk |
| 14 | 38 | 150 | 51 | 22,67 | LES | SLEDAI = 2 | Ringan | - | - | Iya | Kalk |
| 15 | 31 | 160 | 55 | 21,48 | LES | SLEDAI = 5 | Ringan | - | - | - | Kalk dan Cavit D3 |
| 16 | 31 | 143 | 58 | 28,36 | LES | SLEDAI = 2 | Ringan | asma, sinusitis | - | Iya | Osfit, Oscal |
| 17 | 33 | 158 | 49 | 19,63 | LES | SLEDAI = 3 | Ringan | - | - | - | Kalk |
| 18 | 44 | 146 | 65 | 30,49 | AR | DAS 28 = 3.2 | Ringan | - | - | - | Osteocal |

| | | | | | | | | | | | |
|----|----|-----|----|-------|-----|---------------|--------|---------------------|---|--------|--------------|
| 19 | 32 | 166 | 52 | 18,87 | AR | DAS 28 = 2,8 | Ringan | HT, alergi kulit | - | Iya | Volavit |
| 20 | 47 | 157 | 59 | 23,94 | AR | DAS 28 = 2,2 | Ringan | - | - | - | Kalk |
| 21 | 41 | 145 | 43 | 20,45 | LES | SLEDAI = 7 | Sedang | - | - | - | Kalk |
| 22 | 31 | 165 | 68 | 24,97 | AR | DAS 28 = 2.66 | Ringan | - | - | - | Kalk |
| 23 | 31 | 160 | 70 | 27,34 | LES | SLEDAI = 5 | Ringan | - | - | Anlene | Kalk |
| 24 | 45 | 155 | 34 | 14,15 | AR | DAS 28 = 3,5 | Sedang | - | - | - | Kalk |
| 25 | 31 | 155 | 54 | 22,48 | LES | SLEDAI = 3 | Ringan | - | - | - | Osteocal |
| 26 | 36 | 153 | 63 | 26,91 | LES | SLEDAI = 2 | Ringan | - | - | - | Kalk |
| 27 | 36 | 153 | 54 | 23,07 | AR | DAS 28 = 3,5 | Sedang | - | - | - | Kalk |
| 28 | 38 | 146 | 42 | 19,7 | LES | SLEDAI = 2 | Ringan | - | - | - | Kalk |
| 29 | 31 | 150 | 43 | 19,11 | LES | SLEDAI = 3 | Ringan | - | - | - | Licokalk |
| 30 | 37 | 152 | 70 | 30,3 | LES | SLEDAI = 5 | Ringan | - | - | - | Linokalk |
| 31 | 32 | 150 | 52 | 23,1 | LES | SLEDAI = 5 | Ringan | - | - | - | Kalk |
| 32 | 42 | 155 | 60 | 24,97 | LES | SLEDAI = 2 | Ringan | - | - | Iya | Licokalk |
| 33 | 48 | 155 | 50 | 20,81 | AR | DAS 28 = 2.63 | Ringan | - | - | - | Licokalk |
| 34 | 31 | 147 | 48 | 22,21 | LES | SLEDAI = 3 | Ringan | Pericardial Efusion | - | - | No |
| 35 | 31 | 148 | 43 | 19,63 | LES | SLEDAI = 2 | Ringan | - | - | - | Kalk |
| 36 | 46 | 150 | 50 | 22,22 | LES | SLEDAI = 1 | Ringan | - | - | - | Kalk |
| 37 | 31 | 150 | 46 | 20,44 | LES | SLEDAI = 2 | Ringan | - | - | Iya | Vit D + Kalk |
| 38 | 31 | 150 | 50 | 22,22 | LES | SLEDAI = 5 | Ringan | - | - | - | Linokalk |
| 39 | 50 | 158 | 43 | 17,22 | RA | DAS 28 = 2,6 | Ringan | - | - | - | No |

| | | | | | | | | | | | |
|----|----|-----|----|-------|-----|------------|--------|------------|-----------|---|---------------|
| 40 | 43 | 150 | 51 | 22,67 | LES | SLEDAI = 1 | Ringan | - | - | - | Kalk Cavit D3 |
| 41 | 42 | 155 | 55 | 22,89 | LES | SLEDAI = 2 | Ringan | - | - | - | Kalk |
| 42 | 34 | 167 | 53 | 19 | LES | SLEDAI = 6 | Sedang | - | - | - | Kalk |
| 43 | 35 | 145 | 59 | 28,06 | LES | SLEDAI = 7 | Sedang | Hipertensi | Captopril | - | Kalk |



Lampiran 7

B. Data Pola Terapi Metilprednisolon

| Kode Pasien | Mulai terapi | Tanggal cek BMD | Jenis | Dosis | Durasi (hari) | Frekuensi | Rute | Dosis Total (mg) |
|-------------|--------------|-----------------|-------|-----------------------|---------------|--|------|------------------|
| 1 | 15-Des-15 | 18-Agu-16 | metil | 8 mg | 247 | 1x1 | Oral | 1976 |
| 2 | 29-Sep-12 | 29-Jun-16 | metil | 4 mg, 8 mg, 16 mg | 1339 | 1x1 (16 mg (29-09-2012 sampai 03-05-2013), 8 mg (04-05-2013 sampai 10-04-2014), 4 mg (11-04-2014 sampai 29-06-2016)) | Oral | 9448 |
| 3 | 18-Jan-12 | 03-Jun-15 | metil | 8 mg | 1232 | 3x1 | Oral | 29568 |
| 4 | 07-Jan-13 | 12-Agu-15 | metil | 8 mg dan 16 mg | 866 | 1x1 (16 mg (07-01-2013 sampai 21-10-2013), 8 mg (22-10-13 sampai 12-08-2015)) | Oral | 9392 |
| 5 | 20-Jul-11 | 10-Agu-15 | metil | 4 mg dan 8 mg | 1482 | 1x1 (8 mg (20-07-2011 sampai 16-01-2013), 4 mg (17-01-2013 sampai 10-08-2015)) | Oral | 8112 |
| 6 | 15-Apr-13 | 21-Jan-15 | metil | 4 mg dan 8 mg | 574 | 1x1 (8 mg (15-04-2013 sampai 29-09-2013), 4 mg (30-09-2013 sampai 21-01-2015)) | Oral | 3000 |
| 7 | 09-Jul-10 | 13-Jan-15 | metil | 4 mg dan 8 mg | 1414 | 1x1 (8 mg (09-07-2010 sampai 17-03-2011), 4 mg (18-03-2011 sampai 13-01-2015)) | Oral | 6688 |
| 8 | 03-Feb-16 | 29-Jun-16 | metil | 4 mg | 148 | 1x1 | Oral | 592 |
| 9 | 09-Des-14 | 03-Agu-16 | metil | 4 mg | 602 | 1x3 hari | Oral | 800 |
| 10 | 10-Feb-13 | 05-Agu-15 | metil | 8 mg | 907 | 3x1 (10-02-2013 sampai 16-04-2013), 2x1 (17-04-2013 sampai 21-05-2013), 1x1 (22-05-2013 sampai 05-08-2015)) | Oral | 8592 |
| 11 | 23-Des-11 | 29-Sep-16 | Metil | 4 mg | 1742 | 2x1 (23-12-2011 sampai 15-11-2012), 1x1 (16-11-2012 sampai 29-09-2016)) | oral | 9592 |
| 12 | 11-Jan-12 | 19-Jun-15 | metil | 4 mg, 8 mg, dan 10 mg | 1255 | 1x1 (10 mg (11-01-2012 sampai 11-03-2012), 8 mg (12-03-2012 sampai 17-04-2013), 4 mg (18-04-2013 sampai 19-06-2015)) | Oral | 8556 |
| 13 | 17-Sep-14 | 25-Nov-15 | metil | 4 mg | 435 | 1x1 | Oral | 1740 |
| 14 | 28-Nov-14 | 30-Des-15 | metil | 4 mg | 398 | 1x1 | Oral | 1592 |
| 15 | 04-Nov-14 | 04-Nov-16 | metil | 8 mg | 730 | 1x1 | Oral | 5840 |

| | | | | | | | | |
|----|-----------|-----------|-------|----------------------|------|--|------|-------|
| 16 | 20-Agt-12 | 14-Mar-16 | metil | 4 mg, 8 mg dan 16 mg | 1174 | 1x1 (16 mg (20-08-2012 sampai 19-04-2013), 8 mg (20-04-2013 sampai 15-01-2014), 4 mg (16-01-2014 sampai 12-10-2014), 8 mg (13-10-2014 sampai 07-12-2014), 4 mg (08-12-2014 sampai 14-03-2016)) | Oral | 8892 |
| 17 | 16-Sep-15 | 28-Sep-16 | metil | 4 mg | 528 | 1x1 | Oral | 2112 |
| 18 | 16-Jul-12 | 25-Jun-14 | metil | 4 mg dan 8 mg | 648 | 1x1 (8 mg (16-07-2012 sampai 14-03-2013), 4 mg (15-03-2013 sampai 25-06-2016)) | Oral | 3556 |
| 19 | 28-Jun-10 | 19-Nov-13 | metil | 4 mg dan 8 mg | 1105 | 1x1 (8 mg (28-06-2010 sampai 21-12-2010), 4 mg (22-12-10 sampai 19-11-2013)) | Oral | 5828 |
| 20 | 12-Sep-14 | 06-Apr-15 | metil | 4 mg dan 8 mg | 205 | 1x1 (8 mg (12-09-2014 sampai 19-11-2014), 4 mg (20-11-2014 sampai 06-04-2015)) | Oral | 1092 |
| 21 | 21-Okt-15 | 21-Jun-16 | metil | 8 mg | 244 | 1x1 | Oral | 1952 |
| 22 | 13-Feb-13 | 30-Sep-16 | metil | 4 mg | 1402 | 3x1 (13-02-2013 sampai 23-08-2014), 2x1 (24-08-2014 sampai 19-04-2015), 1x1 (20-04-2015 sampai 30-09-2016) | Oral | 14028 |
| 23 | 18-Mar-11 | 30-Sep-16 | metil | 4 mg, 8 mg dan 16 mg | 2023 | 1x1 (16 mg (18-03-2011 sampai 24-06-2011), 8 mg (25-06-2011 sampai 17-02-2012), 4 mg (18-02-2012 sampai 30-09-2016)) | Oral | 10232 |
| 24 | 18-Sep-02 | 18-Des-15 | metil | 8 mg dan 16 mg | 4803 | 1x1 (16 mg (18-09-2002 sampai 17-08-2003), 8 mg (18-Sep-03 sampai 18-12-2015)) | Oral | 41344 |
| 25 | 10-Mar-10 | 20-Jan-16 | metil | 16 mg, 8 mg dan 4 mg | 2142 | 1x1 (16 mg (10-03-2010 sampai 13-04-2010), 8 mg (14-04-2010 sampai 24-08-2010), 4 mg (25-08-2010 sampai 20-01-2016)) | Oral | 9628 |
| 26 | 19-Nov-14 | 10-Feb-16 | metil | 4 mg | 449 | 1x1 | Oral | 1796 |
| 27 | 10-Jul-13 | 19-Feb-16 | metil | 8 mg dan 16 mg | 955 | 1x1 (16 mg (22-11-2013 sampai 19-03-2014), 8 mg (20-03-2013 sampai 19-02-2016)) | Oral | 9664 |
| 28 | 18-Sep-13 | 19-Okt-16 | metil | 4 mg, 8 mg dan 16 mg | 1128 | 1x1 (16 mg (18-09-2013 sampai 12-03-2014), 8 mg (13-03-2014 sampai 17-10-2014), 4 mg (18-10-2014 sampai 19-10-2016)) | Oral | 6096 |
| 29 | 20-Jun-14 | 24-Okt-16 | metil | 4 mg | 763 | 1x1 (20-06-2014 sampai 24-11-2014), 1x2 hari (25-11-2014 sampai 24-10-2016)) | Oral | 1846 |
| 30 | 02-Jun-10 | 05-Okt-16 | metil | 4 mg, 8 mg dan 16 mg | 1953 | 1x1 (16 mg (02-06-2010 sampai 03-11-2010), 8 mg (04-11-2010 sampai 10-08-2011), 4 mg (11-08-2011 sampai 05-10-2016)) | Oral | 10660 |
| 31 | 22-Sep-10 | 07-Okt-16 | metil | 4 mg, 8 mg dan 16 mg | 2206 | 3x1 (16 mg (22-09-2010 sampai 03-05-2011), 2x1 (8 mg (4-05-2011 sampai 08-02-2012), 1x1 (4 mg (09-02-2012 sampai 07-10-2016)) | Oral | 21920 |

| | | | | | | | | |
|----|-----------|-----------|-------|-----------------------|------|---|------|--------|
| 32 | 15-Jan-10 | 10-Okt-16 | metil | 4 mg dan 8 mg | 2101 | 1x1 (8 mg (15-01-2010 sampai 07-07-2011), 4 mg (08-07-2011 sampai 10-10-2016)) | Oral | 10320 |
| 33 | 19-Jul-13 | 14-Okt-16 | metil | 2.5 mg, 4 mg dan 8 mg | 1006 | 1x1 (8 mg (19-07-2013 sampai 12-09-2013), 4 mg (13-09-2013 sampai 16-12-2014), 2,5 mg (17-12-2014 sampai 14-10-2016)) | Oral | 3342 |
| 34 | 17-Jun-16 | 14-Okt-16 | metil | 4 mg | 120 | 1x2 hari | Oral | 240 |
| 35 | 18-Sep-15 | 19-Okt-16 | metil | 4 mg, 8 mg dan 16 mg | 398 | 1x1 (16 mg (18-09-2015 sampai 20-11-2015), 8 mg (21-11-2015 sampai 25-03-2016), 4 mg (26-03-2016 sampai 19-10-2016)) | Oral | 2864 |
| 36 | 26-Mei-14 | 21-Nov-16 | metil | 4 mg dan 8 mg | 811 | 1x1 (8 mg (26-05-2014 sampai 19-08-2014), 4 mg (20-08-2014 sampai 21-11-2016)) | Oral | 3664 |
| 37 | 20-Jun-13 | 11-Nov-16 | metil | 4 mg dan 8 mg | 1239 | 1x1 (8 mg (20-06-2013 sampai 13-08-2013), 4 mg (14-08-2013 sampai 11-11-2016)) | Oral | 5216 |
| 38 | 27-Feb-08 | 23-Nov-16 | metil | 4 mg, 8 mg dan 16 mg | 3192 | 2x1 (16 mg (27-02-2008 sampai 26-09-2008), 1x1 (16 mg (27-09-2008 sampai 29-07-2009), 8 mg (30-07-2009 sampai 25-05-2011), 4 mg (26-05-2011 sampai 23-11-2016)) | Oral | 25064 |
| 39 | 18-Jan-12 | 16-Jan-16 | metil | 2,5 mg, 4 mg dan 8 mg | 1460 | 2x1 (8 mg (18-jan-12 smp 16-mar-12), 1x1((8 mg (17-mar-12 smp 17-des-12), (4 mg(18-des-12 smp 12-agt-15), (2,5 mg smp skg)) | Oral | 7416,5 |
| 40 | 03-Jan-03 | 09-Des-16 | metil | 2 mg, 4 mg dan 6 mg | 5046 | 6-2-0 mg (03-01-2003 sampai 06-02-2004), 4-2-0 (07-02-2004 sampai 02-11-2016), berhenti mulai 03-nov-16 sampai sekarang | Oral | 31076 |
| 41 | 10-Mei-13 | 07-Des-16 | metil | 4 mg | 1103 | 2x1 (10-05-2013 sampai 04-03-2014), 1x1 (05-03-2014 sampai 07-12-2016)) | Oral | 5592 |
| 42 | 09-Sep-16 | 07-Des-16 | metil | 8 mg | 101 | 1x1 | Oral | 808 |
| 43 | 04-Mar-16 | 05-Des-16 | metil | 8 mg dan 16 mg | 277 | 1x1 (16 mg (04-03-2016 sampai 08-04-2016), 8 mg (09-04-2016 sampai 05-12-2016)) | Oral | 1928 |

Lampiran 8

C. Data DMT (g/cm²)

| Kode Pasien | Tanggal cek BMD | DMT (g/cm ²) | | | | | | | |
|-------------|-----------------|--------------------------|----------|----------|----------|-------------|--------------|-----------------|------------|
| | | Spine L1 | Spine L2 | Spine L3 | Spine L4 | Total Spine | Femoral Neck | Ward's Triangle | Trochanter |
| 1 | 18-Agu-16 | 0,75 | 0,875 | 0,996 | 1,02 | 0,92 | 0,699 | 0,41 | 0,573 |
| 2 | 29-Jun-16 | 0,811 | 0,933 | 0,882 | 0,796 | 0,85 | 0,587 | 0,536 | 0,494 |
| 3 | 03-Jun-15 | 0,701 | 0,742 | 0,789 | 0,778 | 0,76 | 0,764 | 0,628 | 0,632 |
| 4 | 12-Agu-15 | 0,645 | 0,716 | 0,779 | 0,882 | 0,77 | 0,708 | 0,51 | 0,596 |
| 5 | 10-Agu-15 | 0,653 | 0,795 | 0,915 | 0,845 | 0,81 | 0,692 | 0,463 | 0,562 |
| 6 | 21-Jan-15 | 0,839 | 0,921 | 0,951 | 0,815 | 0,88 | 0,683 | 0,454 | 0,558 |
| 7 | 13-Jan-15 | 0,742 | 0,808 | 0,806 | 0,781 | 0,78 | 0,669 | 0,43 | 0,528 |
| 8 | 29-Jun-16 | 0,736 | 0,947 | 0,917 | 0,901 | 0,88 | 0,58 | 0,306 | 0,39 |
| 9 | 03-Agu-16 | 0,747 | 0,817 | 0,874 | 0,869 | 0,83 | 0,715 | 0,407 | 0,568 |
| 10 | 05-Agu-15 | 0,504 | 0,71 | 0,688 | 0,643 | 0,64 | 0,602 | 0,352 | 0,468 |
| 11 | 29-Sep-16 | 0,55 | 0,667 | 0,707 | 0,732 | 0,67 | 0,662 | 0,533 | 0,53 |
| 12 | 19-Jun-15 | 0,692 | 0,801 | 0,889 | 1,04 | 0,87 | 0,652 | 0,437 | 0,512 |
| 13 | 25-Nov-15 | 0,689 | 0,736 | 0,813 | 0,901 | 0,8 | 0,63 | 0,49 | 0,545 |
| 14 | 30-Des-15 | 0,654 | 0,774 | 0,887 | 0,832 | 0,79 | 0,709 | 0,538 | 0,514 |
| 15 | 04-Nov-16 | 0,652 | 0,742 | 0,817 | 0,862 | 0,79 | 0,626 | 0,433 | 0,478 |
| 16 | 14-Mar-16 | 0,668 | 0,665 | 0,809 | 0,835 | 0,75 | 0,54 | 0,465 | 0,464 |
| 17 | 28-Sep-16 | 0,724 | 0,8 | 0,837 | 0,845 | 0,81 | 0,551 | 0,361 | 0,502 |
| 18 | 25-Jun-14 | 0,784 | 0,784 | 0,806 | 0,622 | 0,74 | 0,71 | 0,441 | 0,594 |
| 19 | 19-Nov-13 | 0,621 | 0,81 | 0,885 | 0,85 | 0,8 | 0,682 | 0,575 | 0,588 |

| | | | | | | | | | |
|----|-----------|-------|-------|-------|-------|------|-------|-------|-------|
| 20 | 06-Apr-15 | 0,677 | 0,834 | 0,902 | 0,966 | 0,86 | 0,817 | 0,708 | 0,745 |
| 21 | 21-Jun-16 | 0,647 | 0,695 | 0,825 | 0,791 | 0,75 | 0,635 | 0,44 | 0,557 |
| 22 | 30-Sep-16 | 0,645 | 0,783 | 0,84 | 0,867 | 0,79 | 0,545 | 0,408 | 0,445 |
| 23 | 30-Sep-16 | 0,538 | 0,634 | 0,685 | 0,709 | 0,65 | 0,589 | 0,352 | 0,545 |
| 24 | 16-Nov-15 | 0,493 | 0,571 | 0,681 | 0,757 | 0,64 | 0,505 | 0,369 | 0,412 |
| 25 | 20-Jan-16 | 0,513 | 0,684 | 0,832 | 0,815 | 0,73 | 0,793 | 0,462 | 0,524 |
| 26 | 10-Feb-16 | 0,442 | 0,604 | 0,677 | 0,71 | 0,62 | 0,574 | 0,346 | 0,446 |
| 27 | 19-Feb-16 | 0,475 | 0,623 | 0,6 | 0,683 | 0,61 | 0,631 | 0,476 | 0,487 |
| 28 | 19-Okt-16 | 0,667 | 0,746 | 0,746 | 0,825 | 0,76 | 0,667 | 0,579 | 0,623 |
| 29 | 24-Okt-16 | 0,716 | 0,731 | 0,781 | 0,864 | 0,77 | 0,598 | 0,508 | 0,475 |
| 30 | 05-Okt-16 | 0,559 | 0,496 | 0,703 | 0,795 | 0,65 | 0,654 | 0,475 | 0,538 |
| 31 | 07-Okt-16 | 0,627 | 0,764 | 0,798 | 0,825 | 0,76 | 0,695 | 0,596 | 0,577 |
| 32 | 10-Okt-16 | 0,678 | 0,751 | 0,817 | 0,75 | 0,75 | 0,62 | 0,584 | 0,55 |
| 33 | 14-Okt-16 | 0,476 | 0,494 | 0,559 | 0,595 | 0,53 | 0,524 | 0,426 | 0,451 |
| 34 | 14-Okt-16 | 0,606 | 0,717 | 0,837 | 0,816 | 0,76 | 0,487 | 0,313 | 0,437 |
| 35 | 19-Okt-16 | 0,756 | 0,898 | 0,92 | 0,953 | 0,89 | 0,657 | 0,645 | 0,605 |
| 36 | 21-Nov-16 | 0,7 | 0,743 | 0,823 | 0,708 | 0,75 | 0,556 | 0,363 | 0,468 |
| 37 | 11-Nov-16 | 0,64 | 0,682 | 0,71 | 0,733 | 0,7 | 0,641 | 0,536 | 0,564 |
| 38 | 23-Nov-16 | 0,51 | 0,569 | 0,682 | 0,646 | 0,61 | 0,614 | 0,39 | 0,524 |
| 39 | 16-Jan-16 | 0,615 | 0,778 | 0,831 | 0,967 | 0,82 | 0,512 | 0,24 | 0,394 |
| 40 | 09-Dec-16 | 0,695 | 0,735 | 0,799 | 0,877 | 0,79 | 0,59 | 0,503 | 0,52 |
| 41 | 07-Dec-16 | 0,53 | 0,643 | 0,714 | 0,733 | 0,66 | 0,614 | 0,369 | 0,45 |
| 42 | 07-Dec-16 | 0,732 | 0,769 | 0,93 | 0,856 | 0,83 | 0,623 | 0,425 | 0,493 |
| 43 | 05-Dec-16 | 0,592 | 0,678 | 0,73 | 0,744 | 0,69 | 0,627 | 0,489 | 0,519 |

Lampiran 9

D. Data DMT T-Score

| Kode Pasien | DMT T-Skor | | | | | | | | Status DMT |
|-------------|------------|----------|----------|----------|-------------|--------------|-----------------|------------|--------------|
| | Spine L1 | Spine L2 | Spine L3 | Spine L4 | Total Spine | Femoral Neck | Ward's Triangle | Trochanter | |
| 1 | -1,32 | -0,53 | 0,53 | -0,16 | -0,28 | -1,13 | -2,34 | -1,43 | Osteopenia |
| 2 | -0,8 | -0,08 | -0,38 | -1,82 | -0,87 | -2,02 | -1,54 | -2,15 | Osteopenia |
| 3 | -1,74 | -1,64 | -1,15 | -1,95 | -1,63 | -0,62 | -0,93 | -0,89 | Osteopenia |
| 4 | -2,21 | -1,85 | -1,23 | -1,18 | -1,52 | -1,06 | -1,7 | -1,22 | Osteopenia |
| 5 | -2,15 | -1,21 | -0,1 | -1,46 | -1,19 | -1,19 | -2 | -1,53 | Osteopenia |
| 6 | -1,56 | -1,18 | 0,19 | -1,68 | -0,62 | -1,26 | -2,06 | -1,56 | Osteopenia |
| 7 | -1,39 | -1,1 | -1 | -1,33 | -1,39 | -1,37 | -1,21 | -1,83 | Osteopenia |
| 8 | -1,44 | 0,04 | -0,09 | -1,04 | -0,63 | -2,07 | -3,02 | -3,1 | Osteopenia |
| 9 | -1,34 | -1,02 | -0,44 | -1,28 | -1,03 | -1 | -2,36 | -1,47 | Osteopenia |
| 10 | -3,41 | -1,9 | -1,98 | -2,95 | -2,54 | -1,9 | -2,72 | -2,39 | Osteoporosis |
| 11 | -3,02 | -2,25 | -1,83 | -1,25 | -2,3 | -1,43 | -1,55 | -1,82 | Osteoporosis |
| 12 | -1,82 | -1,15 | -0,32 | -0,02 | -0,69 | -1,51 | -2,17 | -1,99 | Osteopenia |
| 13 | -1,84 | -1,68 | -0,95 | -1,04 | -1,29 | -1,68 | -1,82 | -1,68 | Osteopenia |
| 14 | -2,1 | -1,62 | -0,42 | -1,54 | -1,37 | -1,06 | -1,52 | -1,96 | Osteopenia |
| 15 | -1,8 | -1,64 | -0,82 | -1,34 | -1,38 | -1,71 | -2,2 | -2,29 | Osteopenia |
| 16 | -2,02 | -2,27 | -0,98 | -1,53 | -1,65 | -2,39 | -1,98 | -2,42 | Osteopenia |
| 17 | -1,5 | -1,1 | -0,7 | -1,4 | -1,2 | -2,3 | -2,6 | -2,08 | Osteopenia |
| 18 | -1,04 | -1,29 | -1,01 | -3,1 | -1,74 | -1,04 | -2,14 | -1,23 | Osteopenia |
| 19 | -2,41 | -1,09 | -0,35 | -1,42 | -1,25 | -1,26 | -1,28 | -1,29 | Osteopenia |

| | | | | | | | | | |
|----|-------|-------|--------|-------|-------|-------|-------|-------|--------------|
| 20 | -1,94 | -0,89 | -0,21 | -0,56 | -0,8 | -0,2 | -0,41 | 0,15 | Normal |
| 21 | -2,2 | -2,02 | -0,85 | -1,85 | -1,68 | -1,64 | -2,15 | -1,57 | Osteopenia |
| 22 | -2,21 | -1,31 | -0,73 | -1,29 | -1,32 | -2,35 | -2,36 | -2,6 | Osteopenia |
| 23 | -3,12 | -2,52 | -2,02 | -2,46 | -2,51 | -2 | -2,72 | -2,51 | Osteoporosis |
| 24 | -3,51 | -3,03 | -2,05 | -2,1 | -2,51 | -2,67 | -2,61 | -2,9 | Osteoporosis |
| 25 | -3,33 | -2,11 | -0,79 | -1,68 | -1,86 | -0,38 | -2,01 | -1,87 | Osteoporosis |
| 26 | -3,93 | -2,76 | -2,08 | -2,45 | -2,7 | -2,12 | -2,76 | -2,59 | Osteoporosis |
| 27 | -3,66 | -2,61 | -2,72 | -2,65 | -2,8 | -1,67 | -1,92 | -2,21 | Osteoporosis |
| 28 | -2,03 | -1,61 | -1,517 | -1,6 | -1,63 | -1,38 | -1,25 | -0,97 | Osteopenia |
| 29 | -1,61 | -1,73 | -1,22 | -1,32 | -1,48 | -1,93 | -1,71 | -2,32 | Osteopenia |
| 30 | -2,94 | -3,65 | -1,86 | -1,83 | -2,45 | -1,49 | -1,92 | -1,75 | Osteoporosis |
| 31 | -2,37 | -1,46 | -1,07 | -1,6 | -1,57 | -1,16 | -1,14 | -1,39 | Osteopenia |
| 32 | -1,93 | -1,57 | -0,92 | -2,16 | -1,65 | -1,76 | -1,22 | -1,64 | Osteopenia |
| 33 | -3,65 | -3,66 | -3,06 | -3,3 | -3,41 | -2,52 | -2,24 | -2,54 | Osteoporosis |
| 34 | -2,54 | -1,84 | -0,75 | -1,67 | -1,62 | -2,81 | -2,97 | -2,67 | Osteoporosis |
| 35 | -1,27 | -0,37 | -0,06 | -0,66 | -0,53 | -1,46 | -0,82 | -1,13 | Osteopenia |
| 36 | -1,75 | -1,63 | -0,87 | -2,47 | -1,7 | -2,27 | -2,65 | -2,38 | Osteopenia |
| 37 | -2,26 | -2,31 | -1,8 | -2,29 | -2,1 | -1,59 | -1,52 | -1,5 | Osteopenia |
| 38 | -3,36 | -3,05 | -2,04 | -2,92 | -2,78 | -1,8 | -2,47 | -1,88 | Osteoporosis |
| 39 | -2,47 | -1,34 | -0,8 | -0,56 | -1,12 | -2,62 | -3,45 | -3,06 | Osteoporosis |
| 40 | -1,79 | -1,7 | -1,07 | -1,22 | -1,36 | -2 | -1,74 | -1,91 | Osteopenia |
| 41 | -3,19 | -2,44 | -1,77 | -2,29 | -2,35 | -1,81 | -2,63 | -2,55 | Osteopenia |
| 42 | -1,47 | -1,42 | -0,02 | -1,37 | -1,04 | -1,73 | -2,24 | -2,15 | Osteopenia |
| 43 | -2,67 | -2,16 | -1,63 | -2,2 | -2,13 | -1,7 | -1,83 | -1,92 | Osteopenia |

Lampiran 10

Dokumentasi Kegiatan



Pemilihan data pasien yang sesuai dengan Kriteria inklusi



Pengambilan data rekam medis dan wawancara pada pasien



Penyerahan Bingkisan pada Pasien

Lampiran 11

Uji Normalitas

Tests of Normality

| | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
|-----------------|---------------------------------|----|-------|--------------|----|------|
| | Statistic | df | Sig. | Statistic | df | Sig. |
| Usia | .142 | 43 | .030 | .958 | 43 | .118 |
| IMT | .080 | 43 | .200* | .976 | 43 | .490 |
| Durasi | .068 | 43 | .200* | .982 | 43 | .742 |
| Dosis Total | .082 | 43 | .200* | .984 | 43 | .810 |
| Spine L1 | .112 | 43 | .200* | .971 | 43 | .335 |
| Spine L2 | .084 | 43 | .200* | .977 | 43 | .524 |
| Spine L3 | .113 | 43 | .200* | .974 | 43 | .432 |
| Spine L4 | .078 | 43 | .200* | .985 | 43 | .846 |
| Total Spine | .147 | 43 | .020 | .968 | 43 | .278 |
| Femoral Neck | .065 | 43 | .200* | .986 | 43 | .866 |
| Ward's Triangle | .065 | 43 | .200* | .990 | 43 | .969 |
| Trochanter | .051 | 43 | .200* | .972 | 43 | .369 |

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction



Statistics

| | | Usia | IMT | Durasi | Dosis Total | Spine L1 | Spine L2 | Spine L3 | Spine L4 | Total Spine | Femoral Neck | Ward's Triangle | Trochanter |
|----------------|---------|---------|---------|------------|-------------|----------|----------|----------|----------|-------------|--------------|-----------------|------------|
| N | Valid | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 |
| | Missing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean | | 38,1628 | 22,3802 | 1313,9535 | 8224,6628 | ,6440 | ,7364 | ,8016 | ,8101 | ,7560 | ,6332 | ,4598 | ,5220 |
| Std. Deviation | | 6,10203 | 3,53352 | 1097,95212 | 8953,77290 | ,09703 | ,10400 | ,09542 | ,10086 | ,08802 | ,07412 | ,09773 | ,06928 |
| Range | | 19,00 | 16,34 | 4945,00 | 41104,00 | ,40 | ,45 | ,44 | ,45 | ,39 | ,33 | ,47 | ,36 |

Correlations

Correlations

| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Spine L1 |
|--------------------|---------------------|-------|-------|--------|-------------|--------------------|----------|
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | ,045 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,776 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | -,124 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,428 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,309* |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,043 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,268 |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,083 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | -,146 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,349 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Spine L1 | Pearson Correlation | ,045 | -,124 | -,309* | -,268 | -,146 | 1 |
| | Sig. (2-tailed) | ,776 | ,428 | ,043 | ,083 | ,349 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Correlations

Correlations

| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Spine L2 |
|--------------------|---------------------|-------|-------|--------|-------------|--------------------|----------|
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | ,057 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,717 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | -,227 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,143 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,372* |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,014 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,315* |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,040 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | -,221 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,154 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Spine L2 | Pearson Correlation | ,057 | -,227 | -,372* | -,315* | -,221 | 1 |
| | Sig. (2-tailed) | ,717 | ,143 | ,014 | ,040 | ,154 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Correlations

Correlations

| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Spine L3 |
|--------------------|---------------------|-------|-------|--------|-------------|--------------------|----------|
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | ,016 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,921 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | -,150 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,336 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,339* |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,026 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,310* |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,043 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | -,185 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,234 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Spine L3 | Pearson Correlation | ,016 | -,150 | -,339* | -,310* | -,185 | 1 |
| | Sig. (2-tailed) | ,921 | ,336 | ,026 | ,043 | ,234 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Correlations

Correlations

| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Spine L4 |
|--------------------|---------------------|-------|-------|--------|-------------|--------------------|----------|
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | -,008 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,961 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | -,260 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,092 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,174 |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,264 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,159 |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,307 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | -,114 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,469 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Spine L4 | Pearson Correlation | -,008 | -,260 | -,174 | -,159 | -,114 | 1 |
| | Sig. (2-tailed) | ,961 | ,092 | ,264 | ,307 | ,469 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

Correlations

| | | Correlations | | | | | |
|--------------------|---------------------|--------------|-------|--------|-------------|--------------------|-------------|
| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Total Spine |
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | ,022 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,888 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | -,235 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,130 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,325* |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,034 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,284 |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,065 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | -,175 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,260 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Total Spine | Pearson Correlation | ,022 | -,235 | -,325* | -,284 | -,175 | 1 |
| | Sig. (2-tailed) | ,888 | ,130 | ,034 | ,065 | ,260 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Correlations

| | | Correlations | | | | | |
|--------------------|---------------------|--------------|-------|--------|-------------|--------------------|--------------|
| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Femoral Neck |
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | ,074 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,637 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | ,181 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,244 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,168 |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,281 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,081 |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,604 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | ,052 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,741 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Femoral Neck | Pearson Correlation | ,074 | ,181 | -,168 | -,081 | ,052 | 1 |
| | Sig. (2-tailed) | ,637 | ,244 | ,281 | ,604 | ,741 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

Correlations

| | | Correlations | | | | | |
|--------------------|---------------------|--------------|-------|--------|-------------|--------------------|-----------------|
| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Ward's Triangle |
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | -,131 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,404 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | -,019 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,903 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | ,002 |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,991 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | ,097 |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,536 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | ,077 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,622 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Ward's Triangle | Pearson Correlation | -,131 | -,019 | ,002 | ,097 | ,077 | 1 |
| | Sig. (2-tailed) | ,404 | ,903 | ,991 | ,536 | ,622 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

Correlations

| | | Correlations | | | | | |
|--------------------|---------------------|--------------|-------|--------|-------------|--------------------|------------|
| | | Usia | IMT | Durasi | Dosis Total | Aktivitas Penyakit | Trochanter |
| Usia | Pearson Correlation | 1 | -,057 | ,112 | ,089 | ,019 | ,009 |
| | Sig. (2-tailed) | | ,718 | ,473 | ,568 | ,902 | ,953 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| IMT | Pearson Correlation | -,057 | 1 | -,108 | -,186 | -,139 | ,170 |
| | Sig. (2-tailed) | ,718 | | ,490 | ,232 | ,375 | ,276 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Durasi | Pearson Correlation | ,112 | -,108 | 1 | ,877** | ,001 | -,123 |
| | Sig. (2-tailed) | ,473 | ,490 | | ,000 | ,994 | ,433 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Dosis Total | Pearson Correlation | ,089 | -,186 | ,877** | 1 | ,264 | -,043 |
| | Sig. (2-tailed) | ,568 | ,232 | ,000 | | ,087 | ,782 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Aktivitas Penyakit | Pearson Correlation | ,019 | -,139 | ,001 | ,264 | 1 | ,039 |
| | Sig. (2-tailed) | ,902 | ,375 | ,994 | ,087 | | ,805 |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |
| Trochanter | Pearson Correlation | ,009 | ,170 | -,123 | -,043 | ,039 | 1 |
| | Sig. (2-tailed) | ,953 | ,276 | ,433 | ,782 | ,805 | |
| | N | 43 | 43 | 43 | 43 | 43 | 43 |

** . Correlation is significant at the 0.01 level (2-tailed).

Logistic Regression

Case Processing Summary

| Unweighted Cases ^a | | N | Percent |
|-------------------------------|----------------------|----|---------|
| Selected Cases | Included in Analysis | 42 | 100,0 |
| | Missing Cases | 0 | ,0 |
| | Total | 42 | 100,0 |
| Unselected Cases | | 0 | ,0 |
| Total | | 42 | 100,0 |

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

| Original Value | Internal Value |
|----------------|----------------|
| Osteopenia | 0 |
| Osteoporosis | 1 |

Block 0: Beginning Block

Iteration History^{a,b,c}

| Iteration | -2 Log likelihood | Coefficients |
|-----------|-------------------|--------------|
| | | Constant |
| Step 1 | 50,285 | -,857 |
| 0 2 | 50,255 | -,916 |
| 3 | 50,255 | -,916 |

- Constant is included in the model.
- Initial -2 Log Likelihood: 50,255
- Estimation terminated at iteration number 3 because parameter estimates changed by less than ,001.

Classification Table^{a,b}

| | | | Predicted | | |
|--------------------|--------------|--------------|--------------|--------------|--------------------|
| | | | Kategori DMT | | Percentage Correct |
| Observed | | | Osteopenia | Osteoporosis | |
| Step 0 | Kategori DMT | Osteopenia | 30 | 0 | 100,0 |
| | | Osteoporosis | 12 | 0 | ,0 |
| Overall Percentage | | | | | 71,4 |

- Constant is included in the model.
- The cut value is ,500

Variables in the Equation

| | B | S.E. | Wald | df | Sig. | Exp(B) |
|-----------------|-------|------|-------|----|------|--------|
| Step 0 Constant | -,916 | ,342 | 7,196 | 1 | ,007 | ,400 |

Variables not in the Equation^f

| Step | Variables | Score | df | Sig. |
|------|-----------|-------|----|-------|
| 0 | usia | ,143 | 1 | ,706 |
| | imt | ,121 | 1 | ,728 |
| | durasi | 3,697 | 1 | ,055 |
| | dosis_to | 2,006 | 1 | ,157 |
| | DA | ,000 | 1 | 1,000 |

a. Residual Chi-Squares are not computed because of redundancies.

Block 1: Method = Enter

Iteration History^{a,b,c,d}

| Iteration | -2 Log likelihood | Coefficients | | | | | |
|-----------|-------------------|--------------|------|------|--------|----------|------|
| | | Constant | usia | imt | durasi | dosis_to | DA |
| Step 1 | 46,301 | -2,925 | ,004 | ,038 | ,001 | ,000 | ,350 |
| 1 | 46,080 | -3,648 | ,006 | ,051 | ,001 | ,000 | ,433 |
| | 46,078 | -3,705 | ,006 | ,052 | ,001 | ,000 | ,440 |
| | 46,078 | -3,705 | ,006 | ,052 | ,001 | ,000 | ,440 |

- a. Method: Enter
- b. Constant is included in the model.
- c. Initial -2 Log Likelihood: 50,255
- d. Estimation terminated at iteration number 4 because parameter estimates changed by less than ,001.

Omnibus Tests of Model Coefficients

| | Chi-square | df | Sig. |
|-------------|------------|----|------|
| Step 1 Step | 4,176 | 5 | ,524 |
| Block | 4,176 | 5 | ,524 |
| Model | 4,176 | 5 | ,524 |

Model Summary

| Step | -2 Log likelihood | Cox & Snell R Square | Nagelkerke R Square |
|------|---------------------|----------------------|---------------------|
| 1 | 46,078 ^a | ,095 | ,136 |

a. Estimation terminated at iteration number 4 because parameter estimates changed by less than ,001.



Hosmer and Lemeshow Test

| Step | Chi-square | df | Sig. |
|------|------------|----|------|
| 1 | 7,975 | 8 | ,436 |

Contingency Table for Hosmer and Lemeshow Test

| | | Kategori DMT = Osteopenia | | Kategori DMT = Osteoporosis | | Total |
|--------|----|---------------------------|----------|-----------------------------|----------|-------|
| | | Observed | Expected | Observed | Expected | |
| Step 1 | 1 | 4 | 3,472 | 0 | ,528 | 4 |
| | 2 | 3 | 3,342 | 1 | ,658 | 4 |
| | 3 | 4 | 3,258 | 0 | ,742 | 4 |
| | 4 | 2 | 3,140 | 2 | ,860 | 4 |
| | 5 | 4 | 3,051 | 0 | ,949 | 4 |
| | 6 | 3 | 2,974 | 1 | 1,026 | 4 |
| | 7 | 2 | 2,892 | 2 | 1,108 | 4 |
| | 8 | 4 | 2,844 | 0 | 1,156 | 4 |
| | 9 | 2 | 2,490 | 2 | 1,510 | 4 |
| | 10 | 2 | 2,537 | 4 | 3,463 | 6 |

Classification Table^a

| Observed | Kategori DMT | Predicted | | | |
|--------------------|--------------|--------------|--------------|--------------------|------|
| | | Kategori DMT | | Percentage Correct | |
| | | Osteopenia | Osteoporosis | | |
| Step 1 | Kategori DMT | Osteopenia | 29 | 1 | 96,7 |
| | | Osteoporosis | 11 | 1 | 8,3 |
| Overall Percentage | | | | | 71,4 |

a. The cut value is ,500

Variables in the Equation

| | B | S.E. | Wald | df | Sig. | Exp(B) | 95,0% C.I. for EXP(B) | | |
|--------|----------|--------|-------|-------|------|--------|-----------------------|-------|--------|
| | | | | | | | Lower | Upper | |
| Step 1 | usia | ,006 | ,061 | ,011 | 1 | ,916 | 1,006 | ,893 | 1,134 |
| | imt | ,052 | ,103 | ,256 | 1 | ,613 | 1,053 | ,861 | 1,289 |
| | durasi | ,001 | ,001 | 1,379 | 1 | ,240 | 1,001 | ,999 | 1,003 |
| | dosis_to | ,000 | ,000 | ,314 | 1 | ,575 | 1,000 | 1,000 | 1,000 |
| | DA | ,440 | 1,167 | ,143 | 1 | ,706 | 1,553 | ,158 | 15,292 |
| | Constant | -3,705 | 3,791 | ,955 | 1 | ,328 | ,025 | | |

a. Variable(s) entered on step 1: usia, imt, durasi, dosis_to, DA.

Correlation Matrix

| | | Constant | usia | imt | durasi | dosis_to | DA |
|-----------|----------|----------|-------|-------|--------|----------|-------|
| Step 1 | Constant | 1,000 | -,652 | -,718 | -,113 | ,053 | -,362 |
| | usia | -,652 | 1,000 | ,126 | -,145 | ,125 | -,062 |
| | imt | -,718 | ,126 | 1,000 | -,084 | ,148 | ,037 |
| | durasi | -,113 | -,145 | -,084 | 1,000 | -,925 | ,487 |
| | dosis_to | ,053 | ,125 | ,148 | -,925 | 1,000 | -,520 |
| | DA | -,362 | -,062 | ,037 | ,487 | -,520 | 1,000 |



PERNYATAAN KEASLIAN TULISAN

Saya yang bertanda tangan di bawah ini:

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NIM : 135070507111002

Program Studi: Program Studi Farmasi

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menyatakan dengan sebenarnya bahwa Tugas Akhir yang saya tulis ini benar-benar hasil karya sendiri, bukan merupakan pengambil-alihan tulisan atau pikiran orang lain yang saya akui sebagai tulisan atau pikiran saya. Apabila di kemudian hari dapat dibuktikan bahwa Tugas Akhir ini adalah hasil jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

Malang, 13 Maret 2017

Yang membuat pernyataan,

(Niela Rizki Amalia)

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