

## LAMPIRAN

### Lampiran 1. Hasil Uji Deskriptif

#### Case Processing Summary

|        | Kelompok | Cases |         |         |         |       |         |
|--------|----------|-------|---------|---------|---------|-------|---------|
|        |          | Valid |         | Missing |         | Total |         |
|        |          | N     | Percent | N       | Percent | N     | Percent |
| Hari_3 | K1       | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |
|        | K2       | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |
|        | K3       | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |

#### Descriptives

|        | Kelompok |                                  | Statistic | Std. Error |
|--------|----------|----------------------------------|-----------|------------|
| Hari_3 | K1       | Mean                             | 310.3377  | 51.69247   |
|        |          | 95% Confidence Interval for Mean | 166.8164  |            |
|        |          | Lower Bound                      |           |            |
|        |          | Upper Bound                      | 453.8590  |            |
|        |          | 5% Trimmed Mean                  | 315.3521  |            |
|        |          | Median                           | 380.5200  |            |
|        |          | Variance                         | 13360.555 |            |
|        |          | Std. Deviation                   | 115.58787 |            |
|        |          | Minimum                          | 132.26    |            |
|        |          | Maximum                          | 398.15    |            |
|        |          | Range                            | 265.89    |            |
|        |          | Interquartile Range              | 199.63    |            |
|        |          | Skewness                         | -1.175    | .913       |
|        |          | Kurtosis                         | -.057     | 2.000      |
|        | K2       | Mean                             | 265.1213  | 3.03072    |
|        |          | 95% Confidence Interval for Mean | 256.7067  |            |

|    |                                  |                     |          |          |
|----|----------------------------------|---------------------|----------|----------|
|    |                                  | Upper Bound         | 273.5360 |          |
|    |                                  | 5% Trimmed Mean     | 265.0361 |          |
|    |                                  | Median              | 262.3667 |          |
|    |                                  | Variance            | 45.926   |          |
|    |                                  | Std. Deviation      | 6.77689  |          |
|    |                                  | Minimum             | 257.55   |          |
|    |                                  | Maximum             | 274.23   |          |
|    |                                  | Range               | 16.68    |          |
|    |                                  | Interquartile Range | 12.53    |          |
|    |                                  | Skewness            | .488     | .913     |
|    |                                  | Kurtosis            | -1.525   | 2.000    |
| K3 | Mean                             |                     | 372.6879 | 43.12654 |
|    | 95% Confidence Interval for Mean | Lower Bound         | 252.9494 |          |
|    |                                  | Upper Bound         | 492.4263 |          |
|    | 5% Trimmed Mean                  |                     | 372.4639 |          |
|    | Median                           |                     | 372.1880 |          |
|    | Variance                         |                     | 9299.492 |          |
|    | Std. Deviation                   |                     | 96.43387 |          |
|    | Minimum                          |                     | 238.53   |          |
|    | Maximum                          |                     | 510.88   |          |
|    | Range                            |                     | 272.35   |          |
|    | Interquartile Range              |                     | 143.09   |          |
|    | Skewness                         |                     | .104     | .913     |
|    | Kurtosis                         |                     | 1.954    | 2.000    |

#### Tests of Normality

|  | Kelompok | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |      |
|--|----------|---------------------------------|----|------|--------------|----|------|
|  |          | Statistic                       | df | Sig. | Statistic    | df | Sig. |

|        |    |      |   |       |      |   |      |
|--------|----|------|---|-------|------|---|------|
| Hari_3 | K1 | .328 | 5 | .084  | .817 | 5 | .110 |
|        | K2 | .258 | 5 | .200* | .935 | 5 | .634 |
|        | K3 | .279 | 5 | .200* | .914 | 5 | .490 |

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

a. Lilliefors Significance Correction

#### Test of Homogeneity of Variance

|                                         | Levene<br>Statistic | df1 | df2   | Sig. |
|-----------------------------------------|---------------------|-----|-------|------|
| Hari_3 Based on Mean                    | 3.919               | 2   | 12    | .049 |
| Based on Median                         | 1.317               | 2   | 12    | .304 |
| Based on Median and<br>with adjusted df | 1.317               | 2   | 7.017 | .327 |
| Based on trimmed<br>mean                | 3.703               | 2   | 12    | .056 |

#### Case Processing Summary

|        | Kelompo<br>k | Cases |         |         |         |       |         |
|--------|--------------|-------|---------|---------|---------|-------|---------|
|        |              | Valid |         | Missing |         | Total |         |
|        |              | N     | Percent | N       | Percent | N     | Percent |
| Hari_6 | K1           | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |
|        | K2           | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |
|        | K3           | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |

#### Descriptives

|        | Kelompok | Statistic                        | Std.<br>Error |
|--------|----------|----------------------------------|---------------|
| Hari_6 | K1       | Mean                             | 324.9487      |
|        |          | 95% Confidence Interval for Mean | 13.20449      |
|        |          | Lower Bound                      | 288.2871      |
|        |          | Upper Bound                      | 361.6102      |
|        |          | 5% Trimmed Mean                  | 325.2139      |
|        |          | Median                           | 329.9933      |
|        |          | Variance                         | 871.793       |
|        |          | Std. Deviation                   | 29.52615      |
|        |          | Minimum                          | 281.56        |
|        |          | Maximum                          | 363.57        |
|        |          | Range                            | 82.01         |

|    |                                  |             |           |          |
|----|----------------------------------|-------------|-----------|----------|
|    | Interquartile Range              |             | 47.62     |          |
|    | Skewness                         |             | -.389     | .913     |
|    | Kurtosis                         |             | 1.496     | 2.000    |
| K2 | Mean                             |             | 318.5992  | 28.61816 |
|    | 95% Confidence Interval for Mean | Lower Bound | 239.1425  |          |
|    |                                  | Upper Bound | 398.0559  |          |
|    | 5% Trimmed Mean                  |             | 314.2041  |          |
|    | Median                           |             | 290.8833  |          |
|    | Variance                         |             | 4094.994  |          |
|    | Std. Deviation                   |             | 63.99214  |          |
|    | Minimum                          |             | 283.55    |          |
|    | Maximum                          |             | 432.76    |          |
|    | Range                            |             | 149.22    |          |
|    | Interquartile Range              |             | 78.41     |          |
|    | Skewness                         |             | 2.206     | .913     |
|    | Kurtosis                         |             | 4.893     | 2.000    |
| K3 | Mean                             |             | 438.7233  | 46.56016 |
|    | 95% Confidence Interval for Mean | Lower Bound | 309.4516  |          |
|    |                                  | Upper Bound | 567.9951  |          |
|    | 5% Trimmed Mean                  |             | 431.6600  |          |
|    | Median                           |             | 398.1233  |          |
|    | Variance                         |             | 10839.244 |          |
|    | Std. Deviation                   |             | 104.11169 |          |
|    | Minimum                          |             | 380.53    |          |
|    | Maximum                          |             | 624.06    |          |
|    | Range                            |             | 243.53    |          |
|    | Interquartile Range              |             | 132.47    |          |
|    | Skewness                         |             | 2.182     | .913     |
|    | Kurtosis                         |             | 4.806     | 2.000    |

### Tests of Normality

|        | Kelompo<br>k | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|--------|--------------|---------------------------------|----|-------|--------------|----|------|
|        |              | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Hari_6 | K1           | .213                            | 5  | .200* | .955         | 5  | .771 |
|        | K2           | .434                            | 5  | .002  | .623         | 5  | .001 |
|        | K3           | .423                            | 5  | .004  | .643         | 5  | .002 |

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

a. Lilliefors Significance Correction

### Test of Homogeneity of Variance

|        |                                         | Levene<br>Statistic | df1 | df2   | Sig. |
|--------|-----------------------------------------|---------------------|-----|-------|------|
| Hari_6 | Based on Mean                           | 1.884               | 2   | 12    | .194 |
|        | Based on Median                         | .324                | 2   | 12    | .729 |
|        | Based on Median and<br>with adjusted df | .324                | 2   | 7.252 | .733 |
|        | Based on trimmed<br>mean                | 1.342               | 2   | 12    | .298 |

### Case Processing Summary

|        | Kelompo<br>k | Cases |         |         |         |       |         |
|--------|--------------|-------|---------|---------|---------|-------|---------|
|        |              | Valid |         | Missing |         | Total |         |
|        |              | N     | Percent | N       | Percent | N     | Percent |
| Hari_9 | K1           | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |
|        | K2           | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |
|        | K3           | 5     | 100.0%  | 0       | 0.0%    | 5     | 100.0%  |

### Descriptives

|        | Kelompok |                                  | Statistic   | Std.<br>Error |  |
|--------|----------|----------------------------------|-------------|---------------|--|
| Hari_9 | K1       | Mean                             | 328.2090    | 5.35374       |  |
|        |          | 95% Confidence Interval for Mean | Lower Bound | 313.3446      |  |
|        |          |                                  | Upper Bound | 343.0734      |  |
|        |          | 5% Trimmed Mean                  |             | 328.0516      |  |
|        |          | Median                           |             | 323.2467      |  |
|        |          | Variance                         |             | 143.312       |  |
|        |          | Std. Deviation                   |             | 11.97132      |  |

|    |                                  |             |           |          |
|----|----------------------------------|-------------|-----------|----------|
|    | Minimum                          |             | 314.87    |          |
|    | Maximum                          |             | 344.39    |          |
|    | Range                            |             | 29.52     |          |
|    | Interquartile Range              |             | 22.06     |          |
|    | Skewness                         |             | .505      | .913     |
|    | Kurtosis                         |             | -1.475    | 2.000    |
| K2 | Mean                             |             | 297.1879  | 34.26142 |
|    | 95% Confidence Interval for Mean | Lower Bound | 202.0629  |          |
|    |                                  | Upper Bound | 392.3128  |          |
|    | 5% Trimmed Mean                  |             | 302.1921  |          |
|    | Median                           |             | 323.5700  |          |
|    | Variance                         |             | 5869.225  |          |
|    | Std. Deviation                   |             | 76.61087  |          |
|    | Minimum                          |             | 161.00    |          |
|    | Maximum                          |             | 343.30    |          |
|    | Range                            |             | 182.30    |          |
|    | Interquartile Range              |             | 97.43     |          |
|    | Skewness                         |             | -2.166    | .913     |
|    | Kurtosis                         |             | 4.756     | 2.000    |
| K3 | Mean                             |             | 447.6560  | 79.46966 |
|    | 95% Confidence Interval for Mean | Lower Bound | 227.0128  |          |
|    |                                  | Upper Bound | 668.2992  |          |
|    | 5% Trimmed Mean                  |             | 435.0494  |          |
|    | Median                           |             | 372.1800  |          |
|    | Variance                         |             | 31577.136 |          |
|    | Std. Deviation                   |             | 177.69957 |          |
|    | Minimum                          |             | 356.94    |          |
|    | Maximum                          |             | 765.29    |          |
|    | Range                            |             | 408.35    |          |
|    | Interquartile Range              |             | 207.63    |          |
|    | Skewness                         |             | 2.227     | .913     |
|    | Kurtosis                         |             | 4.970     | 2.000    |

### Tests of Normality

|        | Kelompo<br>k | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|--------|--------------|---------------------------------|----|-------|--------------|----|------|
|        |              | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Hari_9 | K1           | .261                            | 5  | .200* | .934         | 5  | .627 |
|        | K2           | .431                            | 5  | .003  | .657         | 5  | .003 |
|        | K3           | .458                            | 5  | .001  | .590         | 5  | .000 |

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

a. Lilliefors Significance Correction

### Test of Homogeneity of Variance

|        |                                         | Levene<br>Statistic | df1 | df2   | Sig. |
|--------|-----------------------------------------|---------------------|-----|-------|------|
| Hari_9 | Based on Mean                           | 3.867               | 2   | 12    | .051 |
|        | Based on Median                         | .597                | 2   | 12    | .566 |
|        | Based on Median and<br>with adjusted df | .597                | 2   | 5.278 | .584 |
|        | Based on trimmed<br>mean                | 2.781               | 2   | 12    | .102 |

## Lampiran 2. Hasil Uji *One Way ANOVA*

### ANOVA

Hari\_3

|                   | Sum of<br>Squares | df | Mean<br>Square | F     | Sig. |
|-------------------|-------------------|----|----------------|-------|------|
| Between<br>Groups | 29171.039         | 2  | 14585.519      | 1.927 | .188 |
| Within Groups     | 90823.892         | 12 | 7568.658       |       |      |
| Total             | 119994.931        | 14 |                |       |      |

### Lampiran 3. Hasil Uji Kruskal Wallis

**Ranks**

|        | Kelompok | N  | Mean Rank |
|--------|----------|----|-----------|
| Hari_6 | K1       | 5  | 6.20      |
|        | K2       | 5  | 5.60      |
|        | K3       | 5  | 12.20     |
|        | Total    | 15 |           |

**Test Statistics<sup>a,b</sup>**

|             | Hari_6 |
|-------------|--------|
| Chi-Square  | 6.660  |
| df          | 2      |
| Asymp. Sig. | .036   |

a. Kruskal Wallis Test

b. Grouping Variable:  
Kelompok

**Ranks**

|        | Kelompok | N  | Mean Rank |
|--------|----------|----|-----------|
| Hari_9 | K1       | 5  | 5.60      |
|        | K2       | 5  | 5.40      |
|        | K3       | 5  | 13.00     |
|        | Total    | 15 |           |

**Test Statistics<sup>a,b</sup>**

|             | Hari_9 |
|-------------|--------|
| Chi-Square  | 9.380  |
| df          | 2      |
| Asymp. Sig. | .009   |

a. Kruskal Wallis Test

b. Grouping Variable:  
Kelompok

#### Lampiran 4. Hasil Uji Mann-Whitney

##### Mann-Whitney Test

| Ranks  |          |    |           |              |
|--------|----------|----|-----------|--------------|
|        | Kelompok | N  | Mean Rank | Sum of Ranks |
| Hari_6 | K1       | 5  | 6.20      | 31.00        |
|        | K2       | 5  | 4.80      | 24.00        |
|        | Total    | 10 |           |              |

| Test Statistics <sup>a</sup>   |                   |
|--------------------------------|-------------------|
|                                | Hari_6            |
| Mann-Whitney U                 | 9.000             |
| Wilcoxon W                     | 24.000            |
| Z                              | -.731             |
| Asymp. Sig. (2-tailed)         | .465              |
| Exact Sig. [2*(1-tailed Sig.)] | .548 <sup>b</sup> |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

##### Mann-Whitney Test

| Ranks  |          |    |           |              |
|--------|----------|----|-----------|--------------|
|        | Kelompok | N  | Mean Rank | Sum of Ranks |
| Hari_6 | K1       | 5  | 3.00      | 15.00        |
|        | K3       | 5  | 8.00      | 40.00        |
|        | Total    | 10 |           |              |

| Test Statistics <sup>a</sup>   |                   |
|--------------------------------|-------------------|
|                                | Hari_6            |
| Mann-Whitney U                 | .000              |
| Wilcoxon W                     | 15.000            |
| Z                              | -2.611            |
| Asymp. Sig. (2-tailed)         | .009              |
| Exact Sig. [2*(1-tailed Sig.)] | .008 <sup>b</sup> |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

**Ranks**

|        | Kelompok | N  | Mean Rank | Sum of Ranks |
|--------|----------|----|-----------|--------------|
| Hari_9 | K1       | 5  | 3.00      | 15.00        |
|        | K3       | 5  | 8.00      | 40.00        |
|        | Total    | 10 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Hari_9            |
|--------------------------------|-------------------|
| Mann-Whitney U                 | .000              |
| Wilcoxon W                     | 15.000            |
| Z                              | -2.611            |
| Asymp. Sig. (2-tailed)         | .009              |
| Exact Sig. [2*(1-tailed Sig.)] | .008 <sup>b</sup> |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

**Ranks**

|        | Kelompok | N  | Mean Rank | Sum of Ranks |
|--------|----------|----|-----------|--------------|
| Hari_9 | K2       | 5  | 3.00      | 15.00        |
|        | K3       | 5  | 8.00      | 40.00        |
|        | Total    | 10 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Hari_9            |
|--------------------------------|-------------------|
| Mann-Whitney U                 | .000              |
| Wilcoxon W                     | 15.000            |
| Z                              | -2.611            |
| Asymp. Sig. (2-tailed)         | .009              |
| Exact Sig. [2*(1-tailed Sig.)] | .008 <sup>b</sup> |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

## Lampiran 5. Ethical Clereance

**KOMISI BIOETIKA PENELITIAN KEDOKTERAN/KESEHATAN**  
**FAKULTAS KEDOKTERAN**  
**UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG**  
 Sekretariat : Gedung C Lantai I Fakultas Kedokteran Unissula  
 Jl. Raya Kaligawe Km 4 Semarang, Telp. 024-6583584, Fax 024-6594366

# Ethical Clearance

**No. 174/IV/2017/Komisi Bioetik**

Komisi Bioetika Penelitian Kedokteran/Kesehatan Fakultas Kedokteran Universitas Islam Sultan Agung Semarang, setelah melakukan pengkajian atas usulan penelitian yang berjudul :

**BELUTIDINE : Salep Lendir Belut Sebagai Obat Luka**

Peneliti Utama : Muhammad Thorieq Ali  
 Muhammad Fadli Ashari  
 Santika Puji Rahayu Wijaya  
 Riantika Nur Utami

Pembimbing : Dra. Endang Lestari, M.Pd., M.Pd. M.Ked

Tempat Penelitian : Lab. Histologi FK UNISSULA

dengan ini menyatakan bahwa usulan penelitian diatas telah memenuhi prasyarat etik penelitian. Oleh karena itu Komisi Bioetika merekomendasikan agar penelitian ini dapat dilaksanakan dengan mempertimbangkan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki dan panduan yang tertuang dalam Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI tahun 2004.

Semarang, 25 April 2017  
 Komisi Bioetika Penelitian Kedokteran/Kesehatan  
 Fakultas Kedokteran Unissula  
 Ketua,

  
 (dr. Sofwan Dahlan, Sp.F(K))

**Lampiran 6. Surat Keterangan dari Laboratorium Kimia Fakultas Kedokteran Universitas Islam Sultan Agung Semarang**



**LABORATORIUM KIMIA FAKULTAS KEDOKTERAN  
UNIVERSITAS ISLAM SULTAN AGUNG ( UNISSULA )**  
Jl. Raya Kaligawe Km.4 Po Box 1054/SM Telp.(024) 6583584 Ext.144 Semarang 50112

**SURAT KETERANGAN**  
**261 / L.KIM/ SA.FK/2017**

Dengan ini kami menerangkan bahwa :

| No | Nama                  | Nim         |
|----|-----------------------|-------------|
| 1. | Muhammad Thorieq Ali  | 30101507504 |
| 2. | Muhammad Fadli Ashari | 30101507498 |
| 3. | Santika Puji Rahayu   | 30101507557 |

Telah melakukan Penelitian di Laboratorium Kimia Fakultas Kedokteran UNISSULA,dengan :

Judul Penelitian : Belutidine: Salep Lendir Belut Sebagai Obat Luka

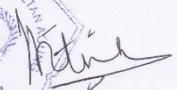
Waktu Penelitian : 22 September 2017

Kegiatan Penelitian : Pembuatan Salep Lendir Belut

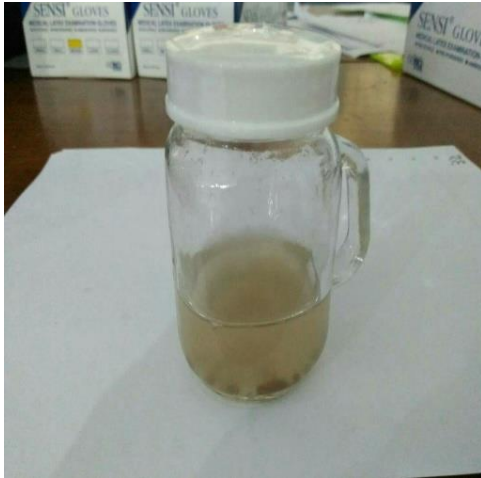
Demikian surat keterangan ini kami buat untuk dapat digunakan sebagaimana mestinya.

Semarang, 14 Januari 2019

Kepala Bagian Kimia.

  
  
**Dr. Hj. Titiek Sumarawati, M.Kes**  
 NIP. 131803305

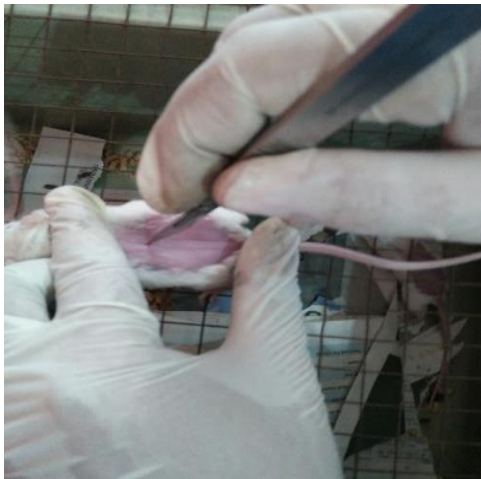
### Lampiran 7. Pembuatan Salep dan Perlakuan Hewan Coba



Pengambilan lendir belut



Pembuatan salep lendir belut



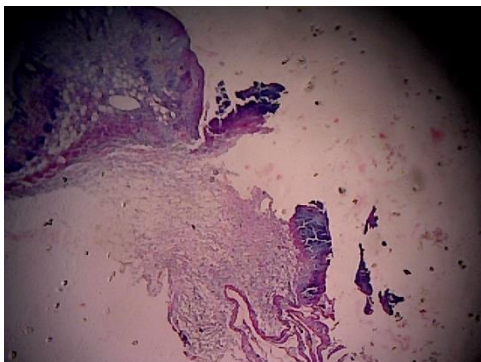
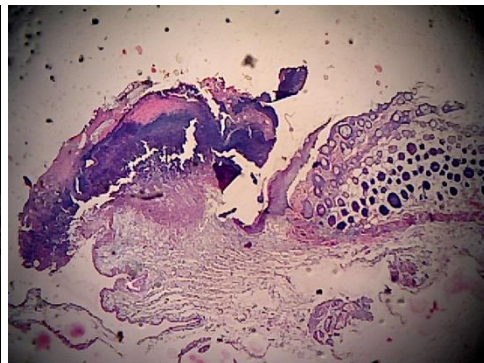
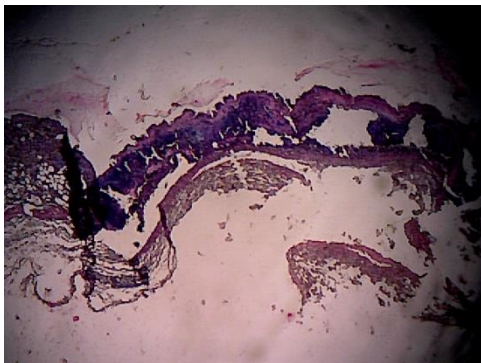
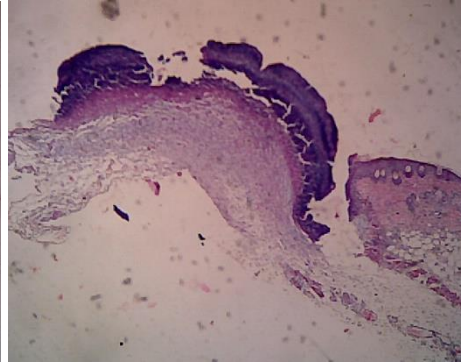
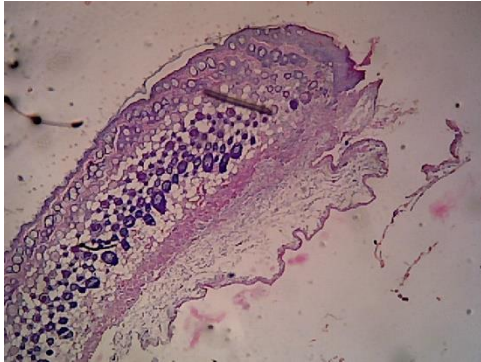
Pembuatan Luka Sayat



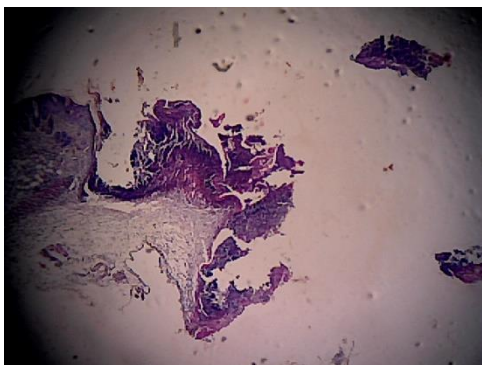
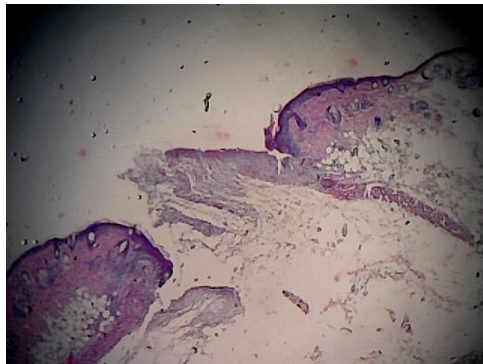
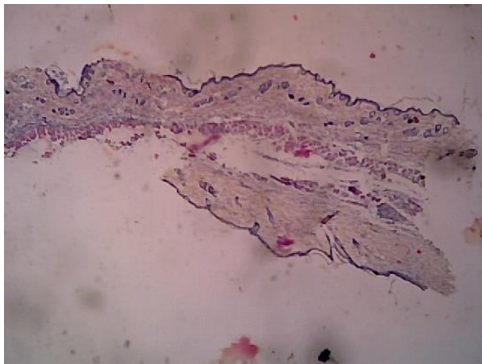
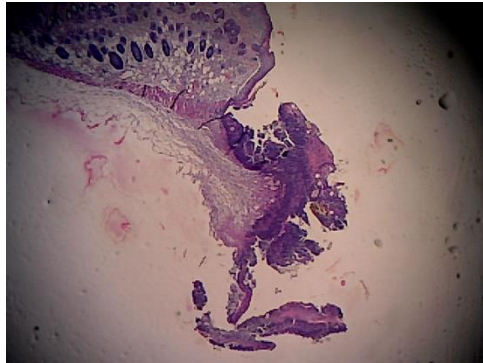
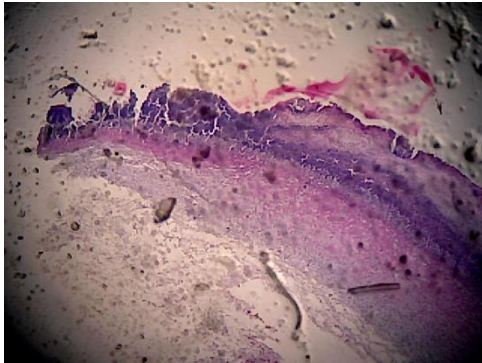
Pengambilan Sampel Kulit

**Lampiran 8. Gambaran Histologis Luka Sayat Hari ke-3, ke-6, dan ke-9**

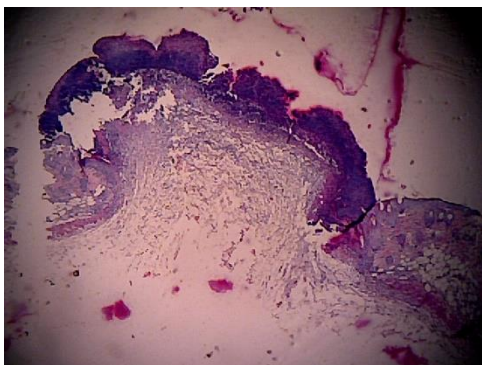
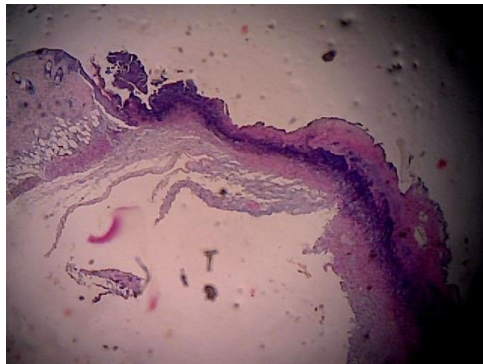
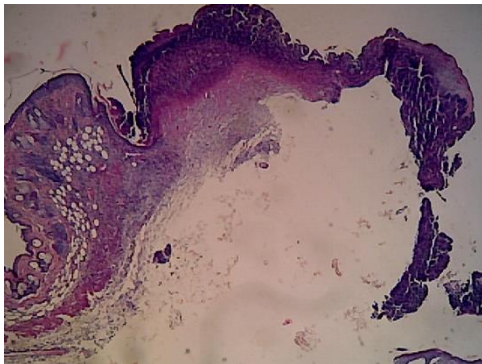
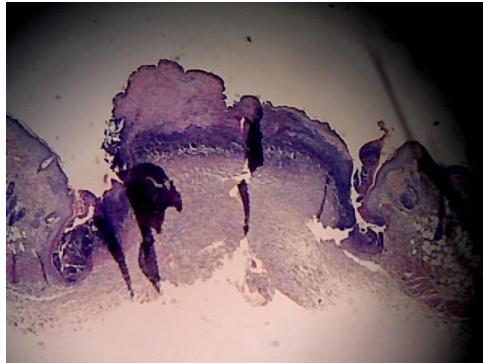
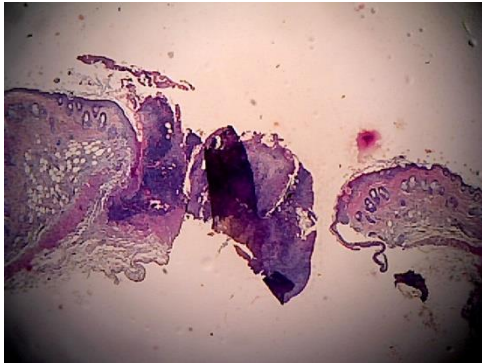
Hari Ke-3 Kelompok I



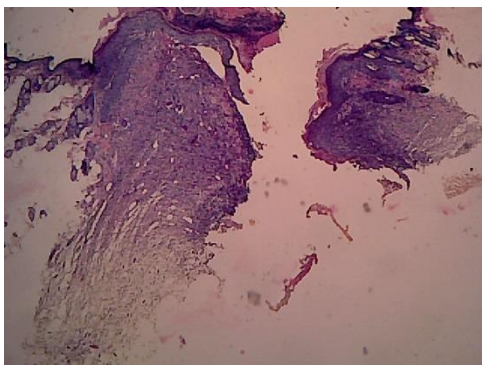
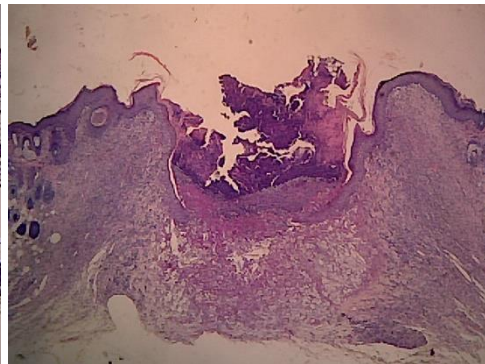
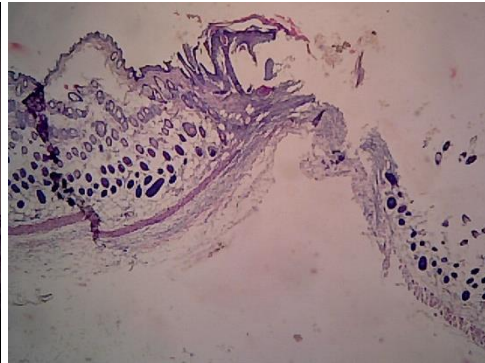
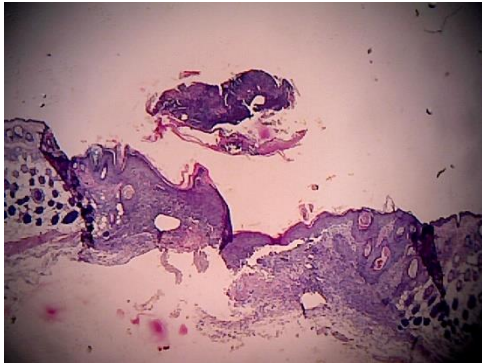
Hari ke-3 Kelompok II



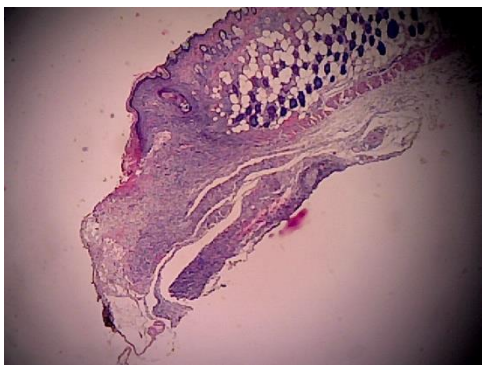
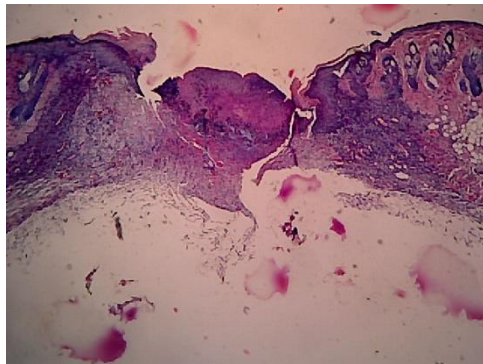
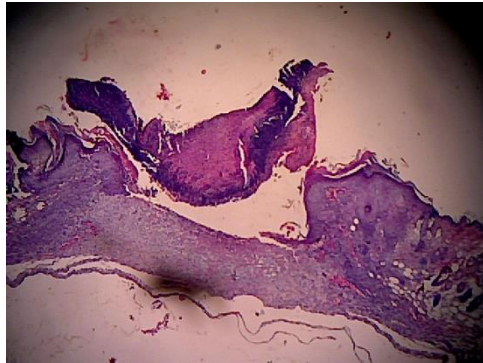
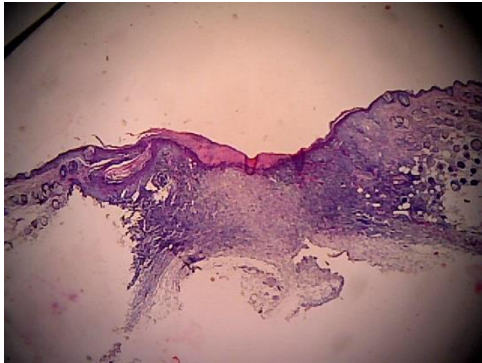
Hari ke-3 Kelompok III



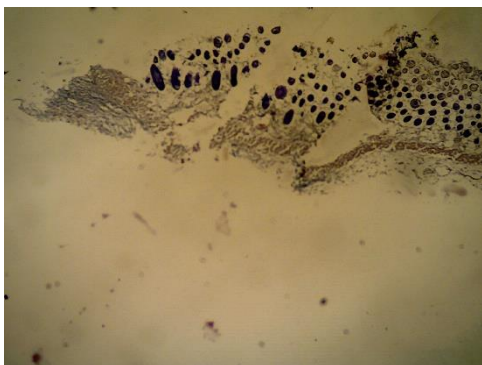
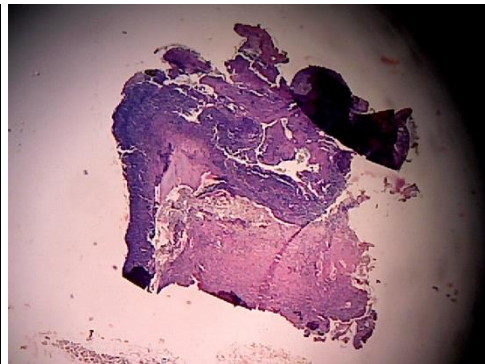
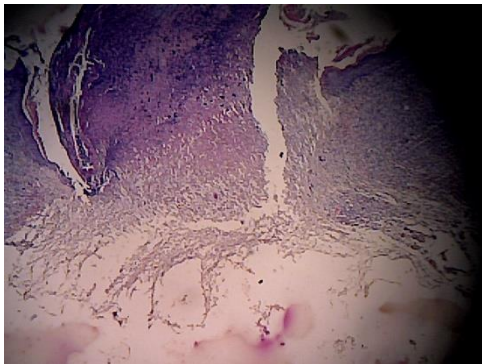
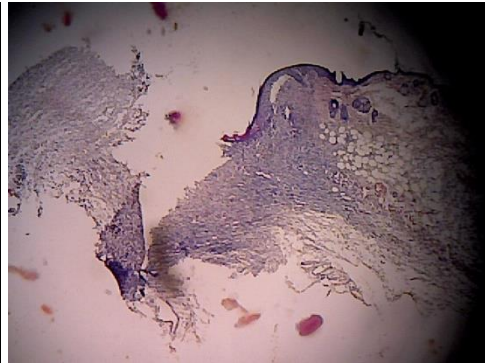
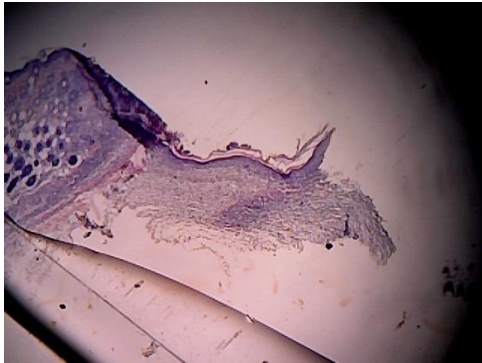
Hari ke-6 Kelompok I



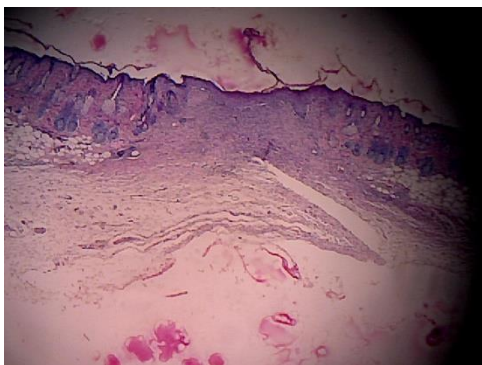
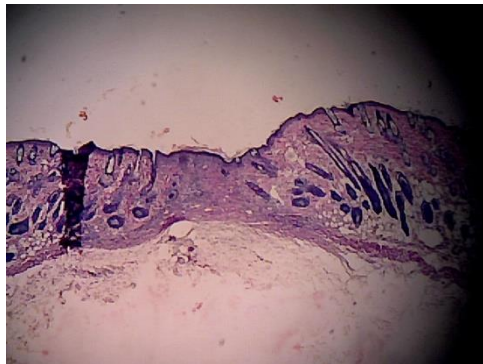
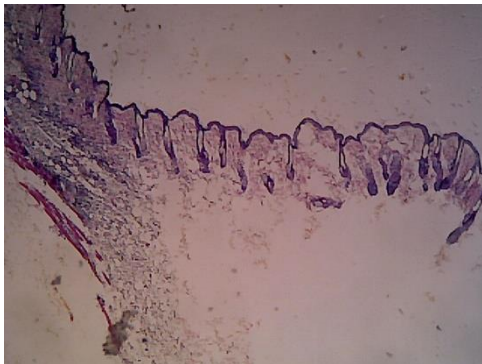
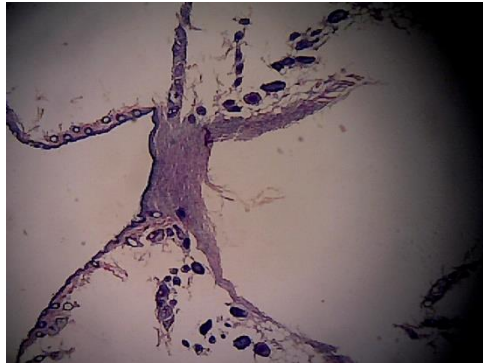
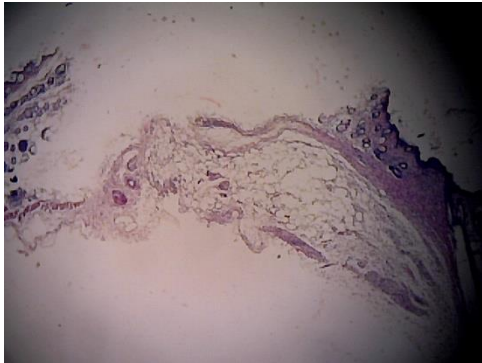
Hari ke-6 Kelompok II



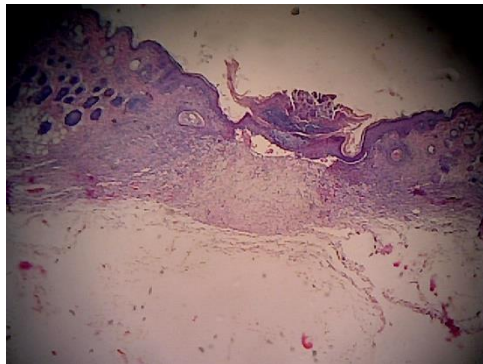
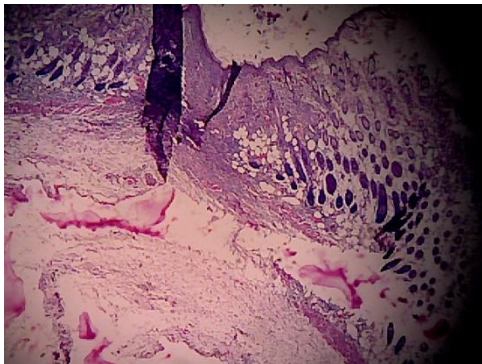
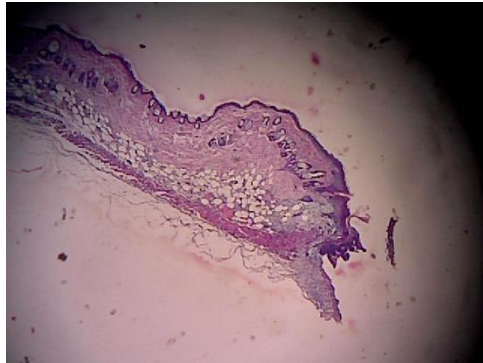
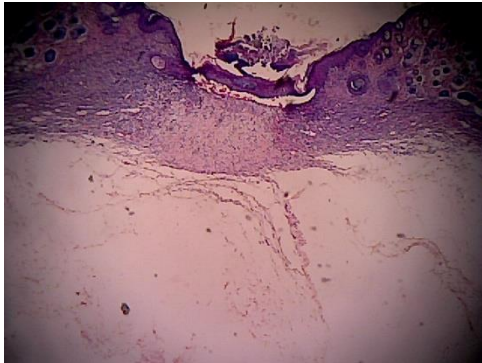
Hari ke-6 Kelompok III



Hari ke-9 Kelompok I



Hari ke-9 Kelompok II



Hari ke-9 Kelompok III

