

# LAMPIRAN

Lampiran 1. Surat Pengantar Penelitian

Bantul,

2017

Yth. Orangtua / Wali Murid  
SD Negeri Kasihan Bantul

*Assalamu'alaikum Wr. Wb*

Saya yang bertanda tangan di bawah ini:

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Institusi : Program Studi Pendidikan Dokter Gigi Fakultas Kedokteran dan  
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Akan melakukan penelitian tentang “” yang bertujuan untuk mengetahui pengaruh pH dan laju aliran saliva sebagai faktor risiko karies pada siswa kelas II, III, dan IV di SD Negeri Kasihan Bantul. Penelitian ini tidak beresiko terhadap kesehatan gigi dan mulut anak maupun kesehatan anak secara umum karena pada penelitian ini hanya akan dilakukan pemeriksaan gigi anak dan mengumpulkan air liur anak pada wadah khusus.

Bersama ini saya lampirkan Surat Pernyataan Persetujuan Penelitian. Kami mohon Bapak/Ibu berkenan memberikan izin pada peneliti untuk melakukan penelitian pada putra/putri dari Bapak/Ibu sekalian.

Demikian surat permohonan ini kami sampaikan, atas perhatian dan kerjasamanya kami ucapkan terima kasih.

*Wassalamualaikum Wr. Wb.*

Mengetahui Pengaruh pH saliva dan Laju aliran Saliva terhadap Status Karies Gigi Anak Usia 8-9 Tahun pada SDN Kasihan Bantul Tahun 2017

Kepala Sekolah SDN Kasihan Bantul

Hormat saya,  
Peneliti

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Sheila Soraya R

Lampiran 2. Surat Pernyataan Persetujuan Penelitian

**SURAT PERNYATAAN PERSETUJUAN PENELITIAN**

***(INFORMED CONSENT)***

Yang bertanda tangan di bawah ini :

Nama :

Tempat/tanggal lahir :

Usia :

Alamat :

Adalah orang tua/wali murid dari siswa/siswi:

Nama :

Tempat/tanggal lahir :

Usia :

Jenis Kelamin :

Alamat :

Menyatakan bahwa anak kami bersedia untuk menjadi responden penelitian “Pengaruh pH dan Laju Aliran Saliva terhadap Status Karies Anak Usia 8-9 Tahun pada SDN Kasihan Bantul Tahun 2017”.

Demikian surat persetujuan penelitian ini saya buat dengan sebenar-benarnya dan dapat dipergunakan sebagaimana mestinya.

Bantul, 2017

Orangtua/Wali Murid

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#### Lampiran 4. Dokumentasi Foto Penelitian

##### Foto saat pemeriksaan DMFS



##### Foto saat pengukuran pH saliva dan laju aliran saliva



Lampiran 5. Data Penelitian

| No | Kelas | TOTAL |      |      |      | NILAI (saliva) |                     |
|----|-------|-------|------|------|------|----------------|---------------------|
|    |       | D(s)  | M(s) | F(s) | DMFS | pH             | Laju Aliran (g/min) |
| 1  | 2     | 3     | 0    | 0    | 3    | 5,7            | 0,22                |
| 2  | 2     | 10    | 0    | 0    | 10   | 5,7            | 0,17                |
| 3  | 2     | 2     | 0    | 0    | 2    | 6,3            | 0,45                |
| 4  | 2     | 7     | 2    | 0    | 15   | 5,7            | 0,25                |
| 5  | 2     | 0     | 0    | 0    | 0    | 6,2            | 0,67                |
| 6  | 2     | 0     | 0    | 0    | 0    | 6              | 0,26                |
| 7  | 2     | 2     | 0    | 0    | 2    | 6,4            | 0,33                |
| 8  | 2     | 0     | 0    | 0    | 0    | 6,3            | 0,43                |
| 9  | 2     | 4     | 0    | 4    | 0    | 6,4            | 0,52                |
| 10 | 2     | 2     | 0    | 0    | 2    | 6,8            | 0,56                |
| 11 | 2     | 4     | 0    | 0    | 4    | 6,1            | 0,37                |
| 12 | 2     | 8     | 0    | 0    | 8    | 5,6            | 0,23                |
| 13 | 2     | 2     | 0    | 0    | 2    | 6              | 0,25                |
| 14 | 2     | 11    | 0    | 0    | 11   | 5,7            | 0,15                |
| 15 | 3     | 2     | 1    | 0    | 6    | 6              | 0,36                |
| 16 | 3     | 2     | 1    | 0    | 6    | 5,7            | 0,25                |
| 17 | 3     | 1     | 0    | 0    | 1    | 6,5            | 0,54                |
| 18 | 3     | 0     | 0    | 0    | 0    | 6,7            | 0,64                |
| 19 | 3     | 3     | 0    | 0    | 3    | 6,2            | 0,49                |
| 20 | 3     | 1     | 0    | 0    | 1    | 6,4            | 0,62                |
| 21 | 3     | 10    | 0    | 0    | 10   | 5,8            | 0,33                |
| 22 | 3     | 0     | 0    | 0    | 0    | 6              | 0,61                |
| 23 | 3     | 4     | 0    | 0    | 4    | 5,9            | 0,26                |
| 24 | 3     | 5     | 0    | 0    | 0    | 5,9            | 0,25                |
| 25 | 3     | 4     | 0    | 0    | 4    | 5,8            | 0,28                |
| 26 | 3     | 3     | 0    | 0    | 3    | 5,7            | 0,25                |
| 27 | 3     | 4     | 0    | 0    | 4    | 5,6            | 0,34                |
| 28 | 3     | 2     | 0    | 0    | 2    | 6,3            | 0,61                |
| 29 | 3     | 2     | 0    | 0    | 2    | 6,4            | 0,33                |
| 30 | 3     | 0     | 0    | 0    | 0    | 6,3            | 0,63                |
| 31 | 3     | 6     | 0    | 0    | 6    | 6              | 0,26                |
| 32 | 3     | 1     | 0    | 0    | 1    | 6,1            | 0,38                |
| 33 | 3     | 3     | 0    | 0    | 3    | 5,6            | 0,25                |
| 34 | 3     | 2     | 0    | 0    | 2    | 6,2            | 0,78                |
| 35 | 3     | 0     | 0    | 0    | 0    | 6,9            | 0,56                |

|    |   |   |   |   |   |     |      |
|----|---|---|---|---|---|-----|------|
| 36 | 3 | 0 | 0 | 0 | 0 | 6,8 | 0,71 |
| 37 | 3 | 4 | 1 | 0 | 8 | 5,6 | 0,37 |
| 38 | 3 | 0 | 0 | 0 | 0 | 6,5 | 0,58 |
| 39 | 3 | 0 | 0 | 0 | 0 | 6,7 | 0,67 |
| 40 | 3 | 1 | 0 | 0 | 1 | 6   | 0,51 |
| 41 | 3 | 1 | 0 | 0 | 1 | 6,6 | 0,36 |
| 42 | 3 | 5 | 0 | 0 | 5 | 5,7 | 0,66 |
| 43 | 3 | 2 | 0 | 0 | 2 | 6,5 | 0,52 |
| 44 | 3 | 6 | 0 | 0 | 6 | 5,3 | 0,25 |
| 45 | 3 | 2 | 0 | 0 | 2 | 6,5 | 0,58 |
| 46 | 3 | 2 | 0 | 0 | 2 | 6,2 | 0,42 |
| 47 | 3 | 6 | 0 | 0 | 6 | 5,6 | 0,35 |
| 48 | 3 | 0 | 0 | 0 | 0 | 6,6 | 0,69 |
| 49 | 3 | 2 | 0 | 0 | 2 | 6,2 | 0,14 |
| 50 | 3 | 4 | 0 | 0 | 4 | 6   | 0,31 |
| 51 | 4 | 2 | 0 | 0 | 2 | 5,8 | 0,19 |
| 52 | 4 | 5 | 0 | 0 | 5 | 6,2 | 0,28 |
| 53 | 4 | 1 | 0 | 0 | 1 | 6,4 | 0,4  |
| 54 | 4 | 0 | 0 | 0 | 0 | 6,4 | 0,56 |
| 55 | 4 | 2 | 0 | 0 | 2 | 6,3 | 0,38 |
| 56 | 4 | 0 | 0 | 0 | 4 | 5,9 | 0,38 |
| 57 | 4 | 0 | 0 | 0 | 0 | 6,5 | 0,52 |
| 58 | 4 | 2 | 0 | 0 | 2 | 6,1 | 0,36 |
| 59 | 4 | 1 | 0 | 0 | 1 | 6,4 | 0,51 |
| 60 | 4 | 1 | 0 | 0 | 1 | 6,6 | 0,62 |

Lampiran 6. Hasil Analisis Data Menggunakan SPSS

**Analisis Deskriptif**

Distribusi rata-rata berdasarkan jenis kelamin

**Descriptive Statistics**

|                       | N  | Minimum | Maximum | Mean   | Std. Deviation |
|-----------------------|----|---------|---------|--------|----------------|
| Laki-laki DMF-S       | 33 | 0       | 15      | 3,18   | 3,566          |
| Laki-laki pH          | 33 | 5,60    | 6,80    | 6,1364 | ,33617         |
| Laki-laki Laju Aliran | 33 | ,14     | ,78     | ,4082  | ,17982         |
| Valid N (listwise)    | 33 |         |         |        |                |

**Descriptive Statistics**

|                       | N  | Minimum | Maximum | Mean   | Std. Deviation |
|-----------------------|----|---------|---------|--------|----------------|
| Perempuan DMF-S       | 27 | 0       | 10      | 2,56   | 2,651          |
| Perempuan pH          | 27 | 5,30    | 6,90    | 6,1407 | ,41811         |
| Perempuan Laju Aliran | 27 | ,17     | ,67     | ,4344  | ,14875         |
| Valid N (listwise)    | 27 |         |         |        |                |

Distribusi rata-rata berdasarkan umur

**Descriptive Statistics**

|                     | N  | Minimum | Maximum | Mean   | Std. Deviation |
|---------------------|----|---------|---------|--------|----------------|
| 8 Tahun DMF-S       | 36 | 0       | 15      | 3,25   | 3,745          |
| 8 Tahun pH          | 36 | 5,60    | 6,90    | 6,1583 | ,37597         |
| 8 Tahun Laju Aliran | 36 | ,14     | ,78     | ,4381  | ,17744         |
| Valid N (listwise)  | 36 |         |         |        |                |

**Descriptive Statistics**

|                     | N  | Minimum | Maximum | Mean   | Std. Deviation |
|---------------------|----|---------|---------|--------|----------------|
| 9 Tahun DMF-S       | 24 | 0       | 6       | 2,38   | 2,018          |
| 9 Tahun pH          | 24 | 5,30    | 6,80    | 6,1083 | ,37174         |
| 9 Tahun Laju Aliran | 24 | ,19     | ,71     | ,3929  | ,14580         |
| Valid N (listwise)  | 24 |         |         |        |                |



Distribusi rata-rata total DMFS

| Statistics |         |  | ph     | laju  |
|------------|---------|--|--------|-------|
| N          | Valid   |  | 60     | 60    |
|            | Missing |  | 60     | 60    |
| Mean       |         |  | 6,1383 | ,4200 |

Distribusi rata-rata total pH saliva dan laju aliran saliva

| Dmfs    |               |           |         |               |                    |
|---------|---------------|-----------|---------|---------------|--------------------|
|         |               | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid   | normal caries | 54        | 45,0    | 90,0          | 90,0               |
|         | severe caries | 6         | 5,0     | 10,0          | 100,0              |
|         | Total         | 60        | 50,0    | 100,0         |                    |
| Missing | System        | 60        | 50,0    |               |                    |
| Total   |               | 120       | 100,0   |               |                    |

## Analisis Bivariate

Mann Whitney Test pH dan DMF-S

| Ranks |               |    |           |              |
|-------|---------------|----|-----------|--------------|
|       | Dmfs          | N  | Mean Rank | Sum of Ranks |
| ph    | normal caries | 54 | 32,91     | 1777,00      |
|       | severe caries | 6  | 8,83      | 53,00        |
|       | Total         | 60 |           |              |

| Test Statistics <sup>a</sup>   |                   |
|--------------------------------|-------------------|
|                                | ph                |
| Mann-Whitney U                 | 32,000            |
| Wilcoxon W                     | 53,000            |
| Z                              | -3,216            |
| Asymp. Sig. (2-tailed)         | ,001              |
| Exact Sig. [2*(1-tailed Sig.)] | ,000 <sup>b</sup> |

a. Grouping Variable: dmfs

b. Not corrected for ties.

Mann Whitney Test Laju dan DMF-S

| Ranks |               |    |           |              |
|-------|---------------|----|-----------|--------------|
|       | Dmfs          | N  | Mean Rank | Sum of Ranks |
| laju  | normal caries | 54 | 32,58     | 1759,50      |
|       | severe caries | 6  | 11,75     | 70,50        |
|       | Total         | 60 |           |              |

| Test Statistics <sup>a</sup>   |                   |
|--------------------------------|-------------------|
|                                | laju              |
| Mann-Whitney U                 | 49,500            |
| Wilcoxon W                     | 70,500            |
| Z                              | -2,775            |
| Asymp. Sig. (2-tailed)         | ,006              |
| Exact Sig. [2*(1-tailed Sig.)] | ,003 <sup>b</sup> |

a. Grouping Variable: dmfs

b. Not corrected for ties.

## Analisis Multivariate

### Regresi Logistik

**Case Processing Summary**

| Unweighted Cases <sup>a</sup> |                      | N   | Percent |
|-------------------------------|----------------------|-----|---------|
| Selected Cases                | Included in Analysis | 60  | 50,0    |
|                               | Missing Cases        | 60  | 50,0    |
|                               | Total                | 120 | 100,0   |
| Unselected Cases              |                      | 0   | ,0      |
| Total                         |                      | 120 | 100,0   |

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

**Dependent Variable Encoding**

| Original Value | Internal Value |
|----------------|----------------|
| normal caries  | 0              |
| severe caries  | 1              |

### Block 0: Beginning Block

**Classification Table<sup>a,b</sup>**

|                    | Observed           | Predicted     |               |            |
|--------------------|--------------------|---------------|---------------|------------|
|                    |                    | dmfs          |               | Percentage |
|                    |                    | normal caries | severe caries | Correct    |
| Step 0             | dmfs normal caries | 54            | 0             | 100,0      |
|                    | dmfs severe caries | 6             | 0             | ,0         |
| Overall Percentage |                    |               |               | 90,0       |

a. Constant is included in the model.

b. The cut value is ,500

**Variables in the Equation**

|                 | B      | S.E. | Wald   | df | Sig. | Exp(B) |
|-----------------|--------|------|--------|----|------|--------|
| Step 0 Constant | -2,197 | ,430 | 26,070 | 1  | ,000 | ,111   |

**Variables not in the Equation**

|                    |           | Score  | df | Sig. |
|--------------------|-----------|--------|----|------|
| Step 0             | Variables |        |    |      |
|                    | ph        | 10,146 | 1  | ,001 |
|                    | laju      | 7,135  | 1  | ,008 |
| Overall Statistics |           | 10,688 | 2  | ,005 |

**Block 1: Method = Backward Stepwise (Conditional)**

**Omnibus Tests of Model Coefficients**

|                     |       | Chi-square | df | Sig. |
|---------------------|-------|------------|----|------|
| Step 1              | Step  | 14,293     | 2  | ,001 |
|                     | Block | 14,293     | 2  | ,001 |
|                     | Model | 14,293     | 2  | ,001 |
| Step 2 <sup>a</sup> | Step  | -2,022     | 1  | ,155 |
|                     | Block | 12,271     | 1  | ,000 |
|                     | Model | 12,271     | 1  | ,000 |

a. A negative Chi-squares value indicates that the Chi-squares value has decreased from the previous step.

**Model Summary**

| Step | -2 Log likelihood   | Cox & Snell R Square | Nagelkerke R Square |
|------|---------------------|----------------------|---------------------|
| 1    | 24,717 <sup>a</sup> | ,212                 | ,443                |
| 2    | 26,739 <sup>b</sup> | ,185                 | ,387                |

a. Estimation terminated at iteration number 8 because parameter estimates changed by less than ,001.

b. Estimation terminated at iteration number 7 because parameter estimates changed by less than ,001.

**Classification Table<sup>a</sup>**

|        | Observed | Predicted          |               |                    |      |
|--------|----------|--------------------|---------------|--------------------|------|
|        |          | dmfs               |               | Percentage Correct |      |
|        |          | normal caries      | severe caries |                    |      |
| Step 1 | dmfs     | normal caries      | 53            | 1                  | 98,1 |
|        |          | severe caries      | 6             | 0                  | ,0   |
|        |          | Overall Percentage |               |                    | 88,3 |
| Step 2 | dmfs     | normal caries      | 53            | 1                  | 98,1 |
|        |          | severe caries      | 6             | 0                  | ,0   |
|        |          | Overall Percentage |               |                    | 88,3 |

a. The cut value is ,500

**Variables in the Equation**

|                     |          | B      | S.E.   | Wald  | df | Sig. | Exp(B)             |
|---------------------|----------|--------|--------|-------|----|------|--------------------|
| Step 1 <sup>a</sup> | Ph       | -4,890 | 2,652  | 3,399 | 1  | ,065 | ,008               |
|                     | Laju     | -8,294 | 6,951  | 1,424 | 1  | ,233 | ,000               |
|                     | Constant | 29,089 | 15,140 | 3,691 | 1  | ,055 | 4296688883361,731  |
| Step 2 <sup>a</sup> | Ph       | -5,820 | 2,368  | 6,040 | 1  | ,014 | ,003               |
|                     | Constant | 32,111 | 13,619 | 5,559 | 1  | ,018 | 88244464478695,720 |

a. Variable(s) entered on step 1: ph, laju.

**Model if Term Removed<sup>a</sup>**

| Variable |      | Model Log Likelihood | Change in -2 Log Likelihood | df | Sig. of the Change |
|----------|------|----------------------|-----------------------------|----|--------------------|
| Step 1   | Ph   | -15,203              | 5,690                       | 1  | ,017               |
|          | laju | -13,466              | 2,216                       | 1  | ,137               |
| Step 2   | Ph   | -22,009              | 17,280                      | 1  | ,000               |

a. Based on conditional parameter estimates

**Variables not in the Equation**

|                     |                    | Score | df | Sig. |
|---------------------|--------------------|-------|----|------|
| Step 2 <sup>a</sup> | Variables laju     | 1,521 | 1  | ,217 |
|                     | Overall Statistics | 1,521 | 1  | ,217 |

a. Variable(s) removed on step 2: laju.