

## SCRIPTS – OSP IN RCTS ON DENTAL CARIES

Software – Stata 15.0 (Stata Corp. College Station, USA)

### Descriptive analysis

log using "C:\PATH\Descriptive analysis.log"

tab reportguideline

tab register

tab detailedmethodology

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log close

## **Logistic regression analysis**

### **Outcome: adopted any Open Science Practice**

log using "C:\PATH\logistic\_regression\_OSP.log"

logit osp\_dic,

logit osp\_dic, or

logit osp\_dic time , or

logit osp\_dic i.continent , or

logit osp\_dic i.goldopenaccess , or

logit osp\_dic impactfactor2021 , or

note: Multiple model

logit osp\_dic time i.goldopenaccess impactfactor2021 , or

log close

## **Logistic regression analysis**

**Outcome: adopted any Open Science Practice except Open Access**

```
log using "C:\PATH\logistic_regression_OSP_no_OA.log"
```

```
logit osp_no_oa ,
```

```
logit osp_no_oa , or
```

```
logit osp_no_oa time , or
```

```
logit osp_no_oa i.continent , or
```

```
logit osp_no_oa i.goldopenaccess , or
```

```
logit osp_no_oa impactfactor2021 , or
```

```
note: final multiple model
```

```
logit osp_no_oa time impactfactor2021 , or
```

```
log close
```

-----  
-----  
name: <unnamed>  
log: C:\Users\Fausto Mendes\Downloads\Descriptive analysis.log  
log type: text  
opened on: 11 Nov 2024, 10:12:09

. tab reportguideline

Report guideline	Freq.	Percent	Cum.
0	217	66.98	66.98
1	101	31.17	98.15
2	6	1.85	100.00
Total	324	100.00	

. tab register

Register	Freq.	Percent	Cum.
0	204	62.96	62.96
1	120	37.04	100.00
Total	324	100.00	

. tab detailedmethodology

Detailed methodology	Freq.	Percent	Cum.
0	322	99.38	99.38
1	1	0.31	99.69
2	1	0.31	100.00
Total	324	100.00	

. tab opensoftwares

Open softwares	Freq.	Percent	Cum.
0	234	72.22	72.22
1	12	3.70	75.93
2	78	24.07	100.00
Total	324	100.00	

. tab scripts

Scripts	Freq.	Percent	Cum.
0	324	100.00	100.00

```
-----+-----
Total |      324      100.00
```

```
. tab sap
```

```
      SAP |      Freq.      Percent      Cum.
-----+-----
      0 |      324      100.00      100.00
-----+-----
Total |      324      100.00
```

```
. tab opendata
```

```
Open Data |      Freq.      Percent      Cum.
-----+-----
      0 |      309      95.37      95.37
      2 |         2       0.62      95.99
      3 |        13       4.01     100.00
-----+-----
Total |      324      100.00
```

```
. tab openpeerreview
```

```
Open peer |
review    |      Freq.      Percent      Cum.
-----+-----
      0 |      316      97.53      97.53
      1 |         8       2.47     100.00
-----+-----
Total |      324      100.00
```

```
. tab openaccess
```

```
Open access |      Freq.      Percent      Cum.
-----+-----
      0 |      203      62.65      62.65
      1 |         66      20.37      83.02
      2 |         20       6.17      89.20
      3 |          3       0.93      90.12
      4 |         28       8.64      98.77
      5 |          3       0.93      99.69
      6 |          1       0.31     100.00
-----+-----
Total |      324      100.00
```

```
. *(1 variable, 324 observations pasted into data editor)
```

```
. tab openaccessmerged
```

```
Open access |
merged      |      Freq.      Percent      Cum.
-----+-----
      0 |      203      62.65      62.65
      1 |         98      30.25      92.90
```

2		20	6.17	99.07
3		3	0.93	100.00
-----				
Total		324	100.00	

. log close

name: <unnamed>

log: C:\Users\Fausto Mendes\Downloads\Descriptive analysis.log

log type: text

closed on: 11 Nov 2024, 10:16:48

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```

-----
name: <unnamed>
log: C:\Users\Fausto Mendes\Downloads\logistic_regression_OSP.log
log type: text
opened on: 11 Nov 2024, 10:21:35

```

```
. logit osp_dic,
```

```
Iteration 0: log likelihood = -210.14169
Iteration 1: log likelihood = -210.14169
```

```

Logistic regression                Number of obs   =       324
                                   LR chi2(0)        =         0.00
                                   Prob > chi2         =         .
Log likelihood = -210.14169        Pseudo R2       =       0.0000

```

```

-----
osp_dic |      Coef.   Std. Err.    z    P>|z|    [95% Conf. Interval]
-----+-----
   _cons |   .6109091   .116335    5.25  0.000    .3828967    .8389215
-----+-----

```

```
. logit osp_dic, or
```

```
Iteration 0: log likelihood = -210.14169
Iteration 1: log likelihood = -210.14169
```

```

Logistic regression                Number of obs   =       324
                                   LR chi2(0)        =         0.00
                                   Prob > chi2         =         .
Log likelihood = -210.14169        Pseudo R2       =       0.0000

```

```

-----
osp_dic |      Odds   Std. Err.    z    P>|z|    [95% Conf. Interval]
-----+-----
   _cons |   1.842105   .2143013    5.25  0.000    1.466526    2.31387
-----+-----

```

```
. logit osp_dic time , or
```

```
Iteration 0: log likelihood = -210.14169
Iteration 1: log likelihood = -161.40492
Iteration 2: log likelihood = -160.61684
Iteration 3: log likelihood = -160.6141
Iteration 4: log likelihood = -160.6141
```

```

Logistic regression                Number of obs   =       324
                                   LR chi2(1)        =       99.06
                                   Prob > chi2         =       0.0000
Log likelihood = -160.6141        Pseudo R2       =       0.2357

```

```

-----
osp_dic | Odds Ratio   Std. Err.    z    P>|z|    [95% Conf. Interval]
-----+-----

```



```
      _cons |    1.495238    .1885022    3.19    0.001    1.167887
1.914344
```

```
--
Note: _cons estimates baseline odds.
```

```
. logit osp_dic impactfactor2021 , or
```

```
Iteration 0:  log likelihood = -210.14169
Iteration 1:  log likelihood = -204.01544
Iteration 2:  log likelihood = -203.97934
Iteration 3:  log likelihood = -203.97934
```

```
Logistic regression                Number of obs    =        324
                                   LR chi2(1)           =        12.32
                                   Prob > chi2          =        0.0004
Log likelihood = -203.97934        Pseudo R2       =        0.0293
```

```
--
      osp_dic | Odds Ratio   Std. Err.      z    P>|z|    [95% Conf.
Interval]
```

```
-----+-----
--
impactfactor2021 |    1.214734    .0714288    3.31    0.001    1.082502
1.363118
```

```
      _cons |    .9753095    .212316   -0.11    0.909    .6365663
1.494312
```

```
--
Note: _cons estimates baseline odds.
```

```
. note: Multiple model
```

```
. logit osp_dic time i.goldopenaccess impactfactor2021 , or
```

```
Iteration 0:  log likelihood = -210.14169
Iteration 1:  log likelihood = -147.93255
Iteration 2:  log likelihood = -145.16806
Iteration 3:  log likelihood = -145.14078
Iteration 4:  log likelihood = -145.14077
```

```
Logistic regression                Number of obs    =        324
                                   LR chi2(3)           =       130.00
                                   Prob > chi2          =        0.0000
Log likelihood = -145.14077        Pseudo R2       =        0.3093
```

```
--
      osp_dic | Odds Ratio   Std. Err.      z    P>|z|    [95% Conf.
Interval]
```

```
-----+-----
--
      time |    .8041708    .0219607   -7.98    0.000    .7622603
```

```
.8483856
1.goldopenaccess | 5.876508 2.780029 3.74 0.000 2.325076
14.85256
impactfactor2021 | 1.41352 .1087029 4.50 0.000 1.215746
1.643468
_cons | 4.452688 1.704308 3.90 0.000 2.102891
9.428177
```

-----  
--

Note: \_cons estimates baseline odds.

```
. log close
  name: <unnamed>
  log: C:\Users\Fausto Mendes\Downloads\logistic_regression_OSP.log
  log type: text
  closed on: 11 Nov 2024, 10:24:35
```

-----  
-----

```

-----
name: <unnamed>
log: C:\Users\Fausto Mendes\Downloads\logistic_regression_OSP_no_OA.log
log type: text
opened on: 11 Nov 2024, 10:25:31

```

```
. logit osp_no_oa ,
```

```
Iteration 0: log likelihood = -217.39055
Iteration 1: log likelihood = -217.39055
```

```

Logistic regression                Number of obs   =       324
                                   LR chi2(0)        =       -0.00
                                   Prob > chi2         =           .
Log likelihood = -217.39055         Pseudo R2      =      -0.0000

```

```

-----
osp_no_oa |      Coef.   Std. Err.    z    P>|z|    [95% Conf. Interval]
-----+-----
   _cons |  -0.4260844  .1136422   -3.75  0.000   -0.6488189   -0.2033499
-----

```

```
. logit osp_no_oa , or
```

```
Iteration 0: log likelihood = -217.39055
Iteration 1: log likelihood = -217.39055
```

```

Logistic regression                Number of obs   =       324
                                   LR chi2(0)        =       -0.00
                                   Prob > chi2         =           .
Log likelihood = -217.39055         Pseudo R2      =      -0.0000

```

```

-----
osp_no_oa |      Odds   Std. Err.    z    P>|z|    [95% Conf. Interval]
-----+-----
   _cons |   0.6530612  .0742153   -3.75  0.000   0.5226627   0.8159927
-----

```

```
. logit osp_no_oa time , or
```

```
Iteration 0: log likelihood = -217.39055
Iteration 1: log likelihood = -153.01661
Iteration 2: log likelihood = -149.40258
Iteration 3: log likelihood = -149.36333
Iteration 4: log likelihood = -149.36332
```

```

Logistic regression                Number of obs   =       324
                                   LR chi2(1)        =      136.05
                                   Prob > chi2         =      0.0000
Log likelihood = -149.36332         Pseudo R2      =      0.3129

```

```

-----
osp_no_oa | Odds Ratio   Std. Err.    z    P>|z|    [95% Conf. Interval]
-----+-----

```



-----  
--  
Note: \_cons estimates baseline odds.

. logit osp\_no\_oa impactfactor2021 , or

Iteration 0: log likelihood = -217.39055  
Iteration 1: log likelihood = -198.82367  
Iteration 2: log likelihood = -198.80041  
Iteration 3: log likelihood = -198.80041

Logistic regression	Number of obs	=	324
	LR chi2(1)	=	37.18
	Prob > chi2	=	0.0000
Log likelihood = -198.80041	Pseudo R2	=	0.0855

-----  
--  
osp\_no\_oa | Odds Ratio Std. Err. z P>|z| [95% Conf.  
Interval]  
-----+-----  
--  
impactfactor2021 | 1.394057 .0847765 5.46 0.000 1.237419  
1.570524  
\_cons | .2035242 .0498122 -6.50 0.000 .1259754  
.328811  
-----

--  
Note: \_cons estimates baseline odds.

. note: final multiple model

. logit osp\_no\_oa time impactfactor2021 , or

Iteration 0: log likelihood = -217.39055  
Iteration 1: log likelihood = -129.78961  
Iteration 2: log likelihood = -124.44417  
Iteration 3: log likelihood = -124.34655  
Iteration 4: log likelihood = -124.34636  
Iteration 5: log likelihood = -124.34636

Logistic regression	Number of obs	=	324
	LR chi2(2)	=	186.09
	Prob > chi2	=	0.0000
Log likelihood = -124.34636	Pseudo R2	=	0.4280

-----  
--  
osp\_no\_oa | Odds Ratio Std. Err. z P>|z| [95% Conf.  
Interval]  
-----+-----  
--  
time | .7006611 .02891 -8.62 0.000 .6462292  
.7596777  
-----

impactfactor2021	1.68399	.1417892	6.19	0.000	1.427808
1.986138					
_cons	1.932226	.6689538	1.90	0.057	.9803123
3.808478					

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--

Note: \_cons estimates baseline odds.

. log close

name: <unnamed>

log: C:\Users\Fausto Mendes\Downloads\logistic\_regression\_OSP\_no\_OA.log

log type: text

closed on: 11 Nov 2024, 10:27:15

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