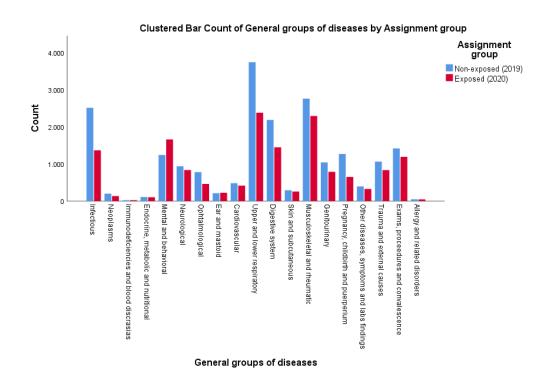
GGraph

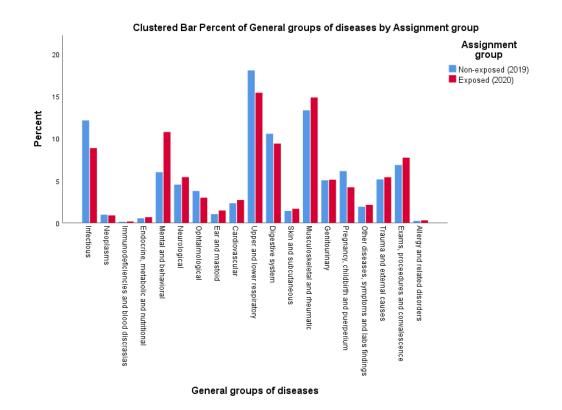
 $\label{locality} $$ [DataSet11] C:\Users\trabalho\Documents\COVID-19\Centro\ Pesquisa\ HUB\ COVID19\BDForceII_OnlyEvents_ICDCompst_04102020.sav$



^{*} Chart Builder.

```
GGRAPH
  /GRAPHDATASET NAME="graphdataset" VARIABLES=DisGroup COUNT()[name="COUNT"] AsgnGrp
   MISSING=LISTWISE REPORTMISSING=NO
 /GRAPHSPEC SOURCE=INLINE.
BEGIN GPL
 SOURCE: s=userSource(id("graphdataset"))
 DATA: DisGroup=col(source(s), name("DisGroup"), unit.category())
 DATA: COUNT=col(source(s), name("COUNT"))
 DATA: AsgnGrp=col(source(s), name("AsgnGrp"), unit.category())
 COORD: rect(\dim(1,2), cluster(3,0))
 GUIDE: axis(dim(3), label("General groups of diseases"))
 GUIDE: axis(dim(2), label("Percent"))
 GUIDE: legend(aesthetic(aesthetic.color.interior), label("Assignment group"))
 GUIDE: text.title(label("Clustered Bar Percent of General groups of diseases by Assignment ",
    "group"))
 SCALE: cat(dim(3), include("1", "2", "3", "4", "5", "6", "7", "8", "9", "10", "11", "12"
, "13", "14", "15", "16", "17", "18", "19"))
 SCALE: linear(dim(2), include(0))
 SCALE: cat(aesthetic(aesthetic.color.interior), include("0", "1"))
 SCALE: cat(dim(1), include("0", "1"))
 ELEMENT: interval (position (summary.percent (AsgnGrp*COUNT*DisGroup,
   base.aesthetic(aesthetic(aesthetic.color.interior)))), color.interior(AsgnGrp),
   shape.interior(shape.square))
END GPL.
```

GGraph



Assessment of the differences in work absences due to Mental Disease between exposed and non-exposed individuals

DATASET ACTIVATE DataSet1.

DATASET CLOSE DataSet11.

DATASET ACTIVATE DataSet1.

DATASET CLOSE DataSet10.

Supporting Information. Data Analysis. Part2

DATASET ACTIVATE DataSet2.

CROSSTABS

/TABLES=AsgnGrp BY AbMnt
/FORMAT=AVALUE TABLES
/STATISTICS=RISK
/CELLS=COUNT ROW TOTAL
/COUNT ROUND CELL.

Crosstabs

[DataSet2] C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Vertic.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Exposure to the pandemia	65382	100,0%	0	0,0%	65382	100,0%
environment * Any work absence						
due to MENTAL DISEASE occurred						
in the period						

Exposure to the pandemia environment * Any work absence due to MENTAL DISEASE occurred in the period Crosstabulation

Any work absence due to MENTAL DISEASE occurred in the period

			No	Yes	Total
Exposure to the pandemia	Non-Exposed (2019)	Count	31875	816	32691
environment		% within Exposure to the pandemia	97,5%	2,5%	100,0%
		environment			
		% of Total	48,8%	1,2%	50,0%
	Exposed (2020)	Count	31571	1120	32691
		% within Exposure to the pandemia	96,6%	3,4%	100,0%
		environment			
		% of Total	48,3%	1,7%	50,0%
Total		Count	63446	1936	65382
		% within Exposure to the pandemia	97,0%	3,0%	100,0%
		environment			
		% of Total	97,0%	3,0%	100,0%

Risk Estimate

		95% Confidence Interval		
	Value	Lower	Upper	
Odds Ratio for Exposure to the	1,386	1,265	1,519	
pandemia environment (Non-				
Exposed (2019) / Exposed (2020))				

For cohort Any work absence due	1,010	1,007	1,012
to MENTAL DISEASE occurred in			
the period = No			
For cohort Any work absence due	,729	,667	,796
to MENTAL DISEASE occurred in			
the period = Yes			
N of Valid Cases	65382		

```
DATASET ACTIVATE DataSet2.

DATASET CLOSE DataSet1.

DATASET ACTIVATE DataSet5.

DATASET CLOSE DataSet2.
```

GET

```
FILE='C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Horiz.sav'.

DATASET NAME DataSet2 WINDOW=FRONT.

CROSSTABS

/TABLES=AbMnt_T1 BY AbMnt_T2

/FORMAT=AVALUE TABLES

/STATISTICS=MCNEMAR

/CELLS=COUNT

/COUNT ROUND CELL.
```

Crosstabs

[DataSet2] C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Horiz.sav

Case Processing Summary

Cases Valid Missing Total Percent Percent Percent Ν Ν Any work absence due to MENTAL 32691 100,0% 0 0,0% 32691 100,0% DISEASE occurred in the period -T1 * Any work absence due to MENTAL DISEASE occurred in the period - T2

Any work absence due to MENTAL DISEASE occurred in the period - T1 * Any work absence due to MENTAL DISEASE occurred in the period - T2 Crosstabulation

Count

	Any work absence due to MENTAL				
	DISEASE occurred	DISEASE occurred in the period - T2			
	No	Yes	Total		
Any work absence due to MENTAL No	30939	936	31875		

DISEASE occurred in the period -	Yes	632	184	816
T1				
Total		31571	1120	32691

Chi-Square Tests

	Value	Exact Sig. (2-sided)
McNemar Test		,000a
N of Valid Cases	32691	

a. Binomial distribution used.

DATASET ACTIVATE DataSet1.

EXAMINE VARIABLES=AbMnt_N BY AsgnGrp

/PLOT HISTOGRAM NPPLOT

/PERCENTILES(5,10,25,50,75,90,95) HAVERAGE
/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE
/NOTOTAL.

Explore: events of work absence per individual due to Mental Diseases (counts)

[DataSet1] C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Vertic.sav

Exposure to the pandemia environment

Case Processing Summary

		Cases					
	Exposure to the pandemia	Va	alid	Mis	sing	To	otal
	environment	N	Percent	N	Percent	N	Percent
Events of work absence due to	Non-Exposed (2019)	32691	100,0%	0	0,0%	32691	100,0%
MENTAL DISEASE occurring in the	Exposed (2020)	32691	100,0%	0	0,0%	32691	100,0%
period							

Descriptives

	Exposure to the pandemia	posure to the pandemia environment			Std. Error
Events of work absence due to	Non-Exposed (2019)	Mean		,0379	,0015
MENTAL DISEASE occurring in the		95% Confidence Interval for Mean	Lower Bound	,0349	
period			Upper Bound	,0409	
		5% Trimmed Mean		,0000	
		Median		,0000	
		Variance		,0757	
		Std. Deviation		,2752	

	Minimum		0	
	Maximum		8	
	Range		8	
	Interquartile Range		0	
	Skewness		10,0935	,0135
	Kurtosis	Kurtosis		,0271
Exposed (2020)	Mean		,0508	,0017
	95% Confidence Interval for Mean	Lower Bound	,0475	
	Upper Bound	,0542		
	5% Trimmed Mean		,0000	
	Median		,0000	
	Variance		,0971	
	Std. Deviation		,3117	
	Minimum		0	
	Maximum			
	Range		7	
	Interquartile Range		0	
	Skewness		8,3336	,0135
	Kurtosis		91,1899	,0271

Tests of Normality

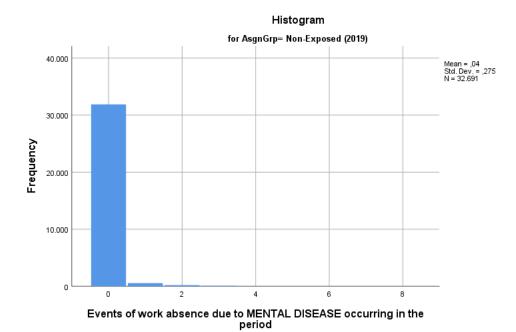
Exposure to the pandemia	Kol	ov ^a	
environment	Statistic	df	Sig.

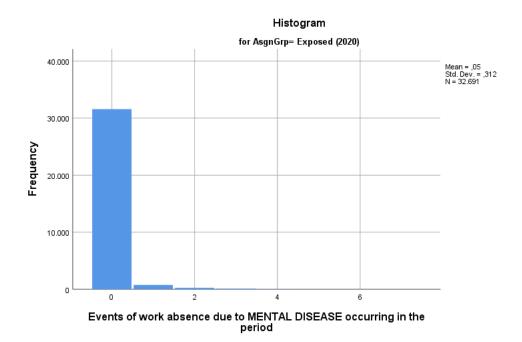
Events of work absence due to	Non-Exposed (2019)	,530	32691	,000
MENTAL DISEASE occurring in the	Exposed (2020)	,531	32691	,000
period				

a. Lilliefors Significance Correction

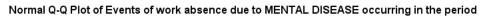
Events of work absence due to MENTAL DISEASE occurring in the period

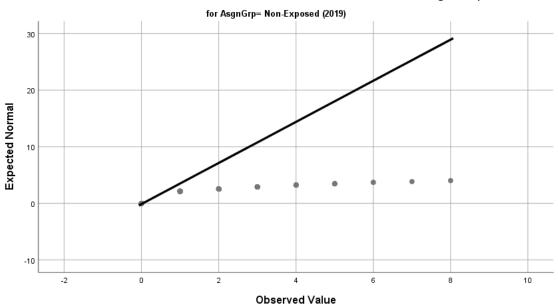
Histograms

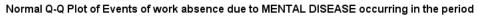


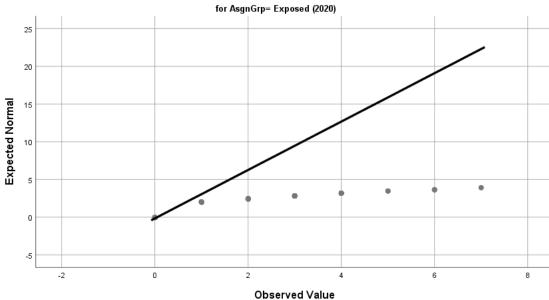


Normal Q-Q Plots



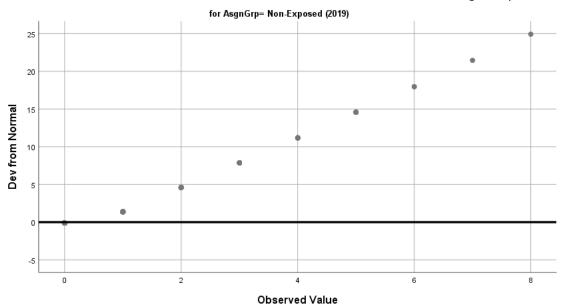




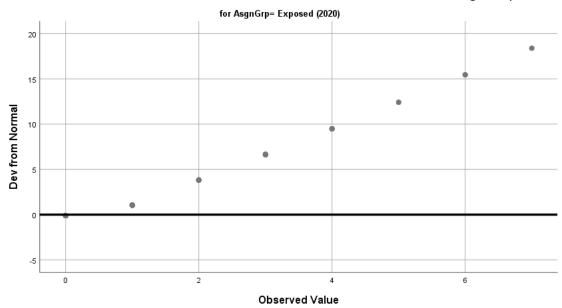


Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of Events of work absence due to MENTAL DISEASE occurring in the period



Detrended Normal Q-Q Plot of Events of work absence due to MENTAL DISEASE occurring in the period



COMPUTE AbMnt_N100=AbMnt_N * 100. EXECUTE.

* Generalized Estimating Equations.

GENLIN AbMnt N100 BY AsgnGrp Sex (ORDER=DESCENDING)

/MODEL AsgnGrp Sex INTERCEPT=YES

DISTRIBUTION=NEGBIN (MLE) LINK=LOG

/CRITERIA METHOD=FISHER(1) SCALE=1 MAXITERATIONS=100 MAXSTEPHALVING=5 PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(WALD) CILEVEL=95 LIKELIHOOD=FULL

/EMMEANS TABLES=AsgnGrp SCALE=ORIGINAL

/EMMEANS TABLES=Sex SCALE=ORIGINAL

/REPEATED SUBJECT=ID WITHINSUBJECT=AsgnGrp SORT=YES CORRTYPE=UNSTRUCTURED ADJUSTCORR=YES COVB=ROBUST MAXITERATIONS=100 PCONVERGE=1e-006(ABSOLUTE) UPDATECORR=1

/MISSING CLASSMISSING=EXCLUDE /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION (EXPONENTIATED).

Generalized Linear Models

Model Information

Dependent Variable	Events of work absence due to
	MENTAL DISEASE occurring in
	the period per 100 professionals
Probability Distribution	Negative binomial (MLE)
Link Function	Log
Subject Effect 1	ID
Within-Subject Effect 1	Exposure to the pandemia
	environment
Working Correlation Matrix Structure	Unstructured

Case Processing Summary

	N	Percent
Included	65382	100,0%
Excluded	0	0,0%

Total	65382	100,0%
-------	-------	--------

Correlated Data Summary

		•	
Number of Levels	Subject Effect	ID	32691
	Within-Subject Effect	Exposure to the pandemia	2
		environment	
Number of Subjects			32691
Number of Measurements per	Minimum		2
Subject	Maximum		2
Correlation Matrix Dimension			2

Categorical Variable Information

			N	Percent
Factor	Exposure to the pandemia	Exposed (2020)	32691	50,0%
	environment	Non-Exposed (2019)	32691	50,0%
		Total	65382	100,0%
	Gender	Male	19418	29,7%
		Female	45964	70,3%
		Total	65382	100,0%

Continuous Variable Information

		N	Minimum	Maximum	Mean	Std. Deviation
Dependent Variable	Events of work absence due to	65382	,00	800,00	4,4370	29,40783
	MENTAL DISEASE occurring in the					
	period per 100 professionals					_

Goodness of Fit^a

	Value
Quasi Likelihood under	4352,568
Independence Model Criterion	
(QIC) ^b	
Corrected Quasi Likelihood under	4356,937
Independence Model Criterion	
(QICC) ^b	

Dependent Variable: Events of work absence due to MENTAL DISEASE occurring in the period per 100 professionals

Model: (Intercept), Exposure to the pandemia environment, Gender^a

- a. Information criteria are in smaller-is-better form.
- b. Computed using the full log quasi-likelihood function.

Tests of Model Effects

Source	Wald Chi-Square	df	Sig.
(Intercept)	1058,402	1	,000
Exposure to the pandemia	32,060	1	,000
environment			
Gender	105,628	1	,000

Dependent Variable: Events of work absence due to MENTAL DISEASE occurring in the period per 100 professionals

Model: (Intercept), Exposure to the pandemia environment, Gender

Parameter Estimates

			95% Wald Conf	fidence Interval	Hypothesis Test			95% Wald Confidence	ce Interval for Exp	
Parameter	В	Std. Error	Lower	Upper	Wald Chi-Square	df	Sig.	Exp(B)	Lower	Upper
(Intercept)	1,526	,0426	1,443	1,610	1284,167	1	,000	4,600	4,232	5,0
[Exposure to the pandemia	,274	,0505	,175	,373	29,424	1	,000	1,315	1,191	1,4
environment=1]										
[Exposure to the pandemia	0 ^a							1		
environment=0]										
[Gender=1]	-,796	,0774	-,947	-,644	105,628	1	,000	,451	,388	, <u>e</u>
[Gender=0]	0 ^a							1		
(Scale)	1									
(Negative binomial)	225,555 ^b									

Dependent Variable: Events of work absence due to MENTAL DISEASE occurring in the period per 100 professionals

Model: (Intercept), Exposure to the pandemia environment, Gender

- a. Set to zero because this parameter is redundant.
- b. Fixed at the displayed value.

Estimated Marginal Means 1: Exposure to the pandemia environment

F	sti	m	2	tΔ	e
_	่อน		а	ιc	Э

Exposure to the pandemia			95% Wald Confidence Interval			
environment	Mean	Std. Error	Lower	Upper		
Exposed (2020)	4,0650	,17595	3,7343	4,4249		
Non-Exposed (2019)	3,0533	,14960	2,7737	3,3610		

Estimated Marginal Means 2: Gender

Estimates

			95% Wald Confidence Interval		
Gender	Mean	Std. Error	Lower	Upper	

Supporting Information. Data Analysis. Part2

Male	2,3667	,16752	2,0601	2,7189
Female	5,2442	,16441	4,9317	5,5766

DATASET ACTIVATE DataSet2.

T-TEST PAIRS=AbMnt_N_T2 WITH AbMnt_N_T1 (PAIRED)

/CRITERIA=CI(.9500)

/MISSING=ANALYSIS.

T-Test

[DataSet2] C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Horiz.sav

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Events of work absence due to	,0508	32691	,3117	,0017
	MENTAL DISEASE occurring in the				
	period - T2				
	Events of work absence due to	,0379	32691	,2752	,0015
	MENTAL DISEASE occurring in the				
	period - T1				

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Events of work absence due to	32691	,198	,000
	MENTAL DISEASE occurring in the			
	period - T2 & Events of work			
	absence due to MENTAL DISEASE			
	occurring in the period - T1			

Paired Samples Test

	Paired Differences								
					95% Confidence	e Interval of the			
					Diffe	rence			
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	Sig. (2-tailed)
Pair 1	Events of work absence due to	,0129	,3727	,0021	,0089	,0170	6,277	32690	,с
	MENTAL DISEASE occurring in								
	the period - T2 - Events of work								
	absence due to MENTAL								
	DISEASE occurring in the period								
	- T1								

GET

FILE='C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Vertic.sav'.

```
DATASET NAME DataSet1 WINDOW=FRONT.

GET

FILE='C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Horiz.sav'.

DATASET NAME DataSet2 WINDOW=FRONT.

*Nonparametric Tests: Related Samples.

NPTESTS

/RELATED TEST(AbMnt_N_T1 AbMnt_N_T2)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.
```

Nonparametric Tests

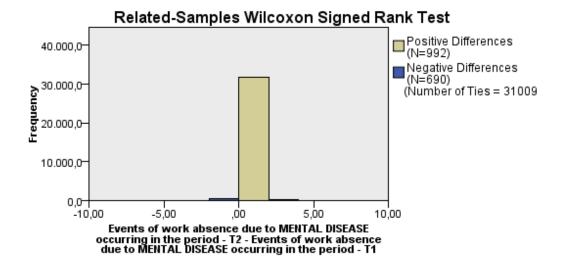
[DataSet2] C:\Users\trabalho\Documents\COVID-19\Centro Pesquisa HUB COVID19\BDForceII_AbsperInd_Horiz.sav

null : null

Hypothesis Test Summary

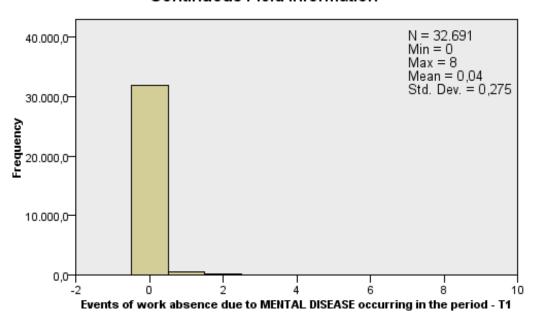
	Null Hypothesis	Test	Sig.	Decision
1	The median of differences between Events of work absence due to MENTAL DISEASE occurring in the period - T1 and Events of work absence due to MENTAL DISEAS occurring in the period - T2 equal O.	Related- Samples Wilcoxon ESigned Rank	,000	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is ,05.

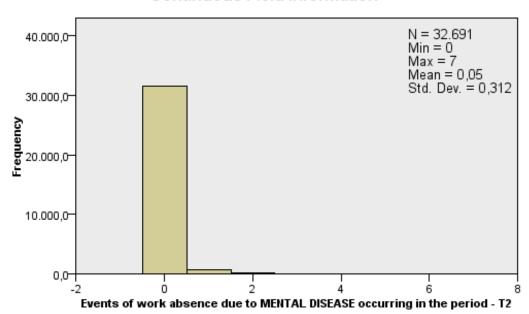


Total N	32.691
Test Statistic	834.347,500
Standard Error	19.069,593
Standardized Test Statistic	6,641
Asymptotic Sig. (2-sided test)	,000

Continuous Field Information



Continuous Field Information



Supporting Information. Continues in the next file.