

In vivo evaluation of the virucidal efficacy of Chlorhexidine and Povidone-iodine mouthwashes against salivary SARS-CoV-2

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Main Information

Primary registry identifying number

LBCTR2021034768

MOH registration number

Study registered at the country of origin

Type of registration

Retrospective

Date of registration in national regulatory agency

29/04/2020

Primary sponsor

Lebanese University

Date of registration in primary registry

06/03/2021

Public title

In vivo evaluation of the virucidal efficacy of Chlorhexidine and Povidone-iodine mouthwashes against salivary SARS-CoV-2

Scientific title

In vivo evaluation of the virucidal efficacy of Chlorhexidine and Povidone-iodine mouthwashes against salivary SARS-CoV-2

Brief summary of the study: English

Antimicrobial mouthrinses are used in many clinical preprocedural situations for decreasing the risk of cross-contamination in the dental setting. The oral cavity is potentially high-risk transmitter of COVID-19. It is important to investigate the efficacy of mouthwash solutions against salivary SARS-CoV-2 in order to reduce the exposure of the dental team during dental procedures. This in vivo study is to evaluate the efficacy of 2 preprocedural mouthrinses in the reduction of salivary SARS-CoV-2 viral load. Saliva samples are collected from COVID-19 positive tested patients before and 5 minutes after mouthwash with 1% Povidoneiodine and 0.2% Chlorhexidine. SARS-CoV-2 rRT-PCR is then performed for each sample. Evaluation of the efficacy is based on difference in cycle threshold (Ct) value.

Brief summary of the study: Arabic

تخدم محلولات مضادات الميكروبات كتطهير للفم قبل العلاجات السريرية في طب الاسنان. يعتبر تجويف الفم مصدر عدوى عالى الخطورة اللعابي SARS-CoV-2 لذا هناك حاجة ماسة لإجراء تحقيق قائم على الأدلة للتأكد من فعالية مُحلول لغسول الفم ضد .COVID-19 لجانّحة -Povidone 1/ التقليل التعرض أثناء إجراءالعلاجات في عيادات طب الأسنان. تهدف هذه الدراسة إلى تقييم فعالية غسولي فم في الجسم الحي: نقبل وبعد COVID-19 اللعابي. يتم جمع عينات اللعاب من مصابين بجائحةSARS-CoV-2 ضد فيرو Chlorhexidine ٪2.0و (Ct). لكل عينة. يعتمد تقييم الفعالية على الفرق في قيمة عتبة الدورة SARS-CoV-2 rRT-PCR دقائق من غسول الفع. ثم يتم إجراء 5

Health conditions/problem studied: Specify

COVID-19/Transmission during dental treatments.

Protocol number

CUER132020

Study registered at the country of origin: Specify

Lebanon

Type of registration: Justify

Research team was not aware of existence of LBCTR.

Primary sponsor: Country of origin

Lebanon

Date of registration in national regulatory agency

29/04/2020

Acronym

N/A

Acronym

N/A



Interventions: Specify

Mouthrinse. Participants are invited to:

1- spit saliva.

2-mouthrinse with an antiseptic oral solution.

3- collect a second post-wash solution.

Key inclusion and exclusion criteria: Inclusion criteria

- 1- COVID-19 Positive Tested Patients in Rafic Hariri University Hospital presenting mild or moderate cases.
- 2- From all nationalities.
- 3- Participants (or guardians) give written informed consent.

Key inclusion and exclusion criteria: Gender Key inclusion and exclusion criteria: Specify gender

Both

Key inclusion and exclusion criteria: Age minimum

Key inclusion and exclusion criteria: Age maximum

12 100

Key inclusion and exclusion criteria: Exclusion criteria

1- COVID-19 Positive Tested Patients presenting severe cases.

2- COVID-19 Positive Tested Patients presenting disabilities (Mental retardation-Physical invalidity-Psychological,troubles- Cognitive troubles affecting the capacity of discernation).

3- Participants (or guardians) who decline written informed consent.

Type of study

Interventional

Type of intervention Type of intervention: Specify type

Preventive measures N/A

Trial scope Trial scope: Specify scope

Prophylaxis N/A

Study design: AllocationStudy design: MaskingRandomized controlled trialBlinded (masking used)

Study design: Control Study phase

Placebo

Study design: Purpose Study design: Specify purpose

Prevention

Study design: Assignment Study design: Specify assignment

Parallel

IMP has market authorization IMP has market authorization: Specify

Name of IMP Year of authorization Month of authorization

N/A

Type of IMP

Pharmaceutical class

Antimicrobial.

Therapeutic indication

Oral disinfection.



Therapeutic benefit

Reduce oral microbial load and risk of infection transmission.

Study model

N/A

Study model: Specify model

N/A

Time perspective

N/A

Time perspective: Specify perspective

Target follow-up duration

Number of groups/cohorts

Biospecimen retention

Samples without DNA

Target sample size

90

Date of first enrollment: Type

Anticipated

Date of study closure: Type

Anticipated

Recruitment status

Complete

Date of completion

30/09/2020

IPD sharing statement plan

No

Study model: Explain model

N/A

Time perspective: Explain time perspective

N/A

Target follow-up duration: Unit

Biospecimen description

Saliva sample before and after mouthwash for each participant.

Actual enrollment target size

77

Date of first enrollment: Date

04/06/2020

Date of study closure: Date

31/12/2020

Recruitment status: Specify

IPD sharing statement description

This is to be done upon request to respect the confidentially of

patients.

Additional data URL





N/A

Admin comments

Trial status

Approved

Secondary Identifying Numbers			
	Full name of issuing authority	Secondary identifying number	
	N/A	N/A	

Sources of Monetary or Material Support

Name

Lebanese University

Secondary Sponsors

Name

N/A

Contac	Contact for Public/Scientific Queries					
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Rola El-ZEIN	Beirut	Lebanon	009613252 480	roulaelzein@ul.e du.lb	Lebanese University
Scientific	Rola El-ZEIN	Beirut	Lebanon	009613252 480	roulaelzein@ul.e du.lb	Lebanese University

Centers/Hospitals Involved in the Study				
Center/Hospital name	Name of principles investigator		Ethical approval	
Rafic Hariri University Hospita	Fouad AYOUB	Dentistry	Approved	



Ethics Review	Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone	
Other Lebanon	01/05/2020	Fadi ABOU MRAD	cuemb@ul.edu.lb	009615463539	

Countries of Recruitment Name Lebanon

Health Conditions or Problems Studied		
Condition	Code	Keyword
COVID-19	2-Propanol (T51.2)	Antiseptic oralmouthrinse

Interventions		
Intervention	Description	Keyword
Mouthrinse	Saliva samples collected before and after mouthrinsing for each participant.	COVID-19;Dentistry;Oral antiseptic mouthwash;SARS-CoV-2

Primary Outcomes	rimary Outcomes			
Name	Time Points	Measure		
Change in cycle threshold (Ct) values of salivary SARS-CoV-2 (delta Ct) after mouthrinsing	End of study	Ct		

Key Secondary Outcomes		
Name	Time Points	Measure
N/A	N/A	N/A



Trial Results		
Summary results		
Study results globally		
Date of posting of results summaries	Date of first journal publication of results	
Results URL link		
Baseline characteristics		
Participant flow		
Adverse events		
Outcome measures		
URL to protocol files		