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» فارسی (https://fa.irct.ir/trial/46983)

The effect of surfactant on clinical outcome of patients with COVID-19 under mechanical ventilation

More	options	•

Protocol summary

Study aim

Assessing the effect of surfactant on clinical outcome in patients with Covid-19 under mechanical ventilation

Design

Two arm parallel group randomized trial with blinded care and outcome assessment

Settings and conduct

COVID-19 patients under mechanical ventilation would enter the study; one group would receive the standard treatment added with placebo and the other group would receive standard care plus intra-tracheal surfactant

Participants/Inclusion and exclusion criteria

Inclusion criteria: If the patient is intubated and under mechanical ventilation with SpO2<85% If the patient has confirmed COVID-19 Exclusion criteria: Existence of a major underlying pulmonary disease in addition to COVID-19 Underlying congenital heart disease

Intervention groups

In the intervention group, based on the dose announced in the study protocol, surfactant is prescribed inside the trachea in two doses at a distance of 6 hours, and at the same time, the dependent variables of the study are measured. At the same time, in the control group, the same volume of normal saline is administered in the trachea within the same time schedule

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Main outcome variables patient mortality; ICU length of stay; Time to be under mechanical ventilation **General information** Reason for update **Acronym IRCT** registration information IRCT registration number: IRCT20091201002804N12 Registration date: 2020-06-01, 1399/03/12 Registration timing: registered_while_recruiting Last update: 2020-06-01, 1399/03/12 Update count: 0 **Registration date** 2020-06-01, 1399/03/12 **Registrant information** Name Ali Dabbagh Name of organization / entity Country Iran (Islamic Republic of) **Phone** +98 21 2243 2572 **Email address** alidabbagh@sbmu.ac.ir **Recruitment status** Recruitment complete **Funding source Expected recruitment start date** 2020-04-20, 1399/02/01

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Expected recruitment end date	
	2020-06-21, 1399/04/01
Actual recruitment start date	
	empty
Actual recruitment end date	
	empty
Trial completion date	
	empty
Scientific title	
	The effect of surfactant on clinical outcome of patients with COVID-19 under mechanical ventilation
Public title	
	The effect of surfactant on clinical outcome of patients with COVID-19
Purpose	
	Treatment
Inclusion/Exclusion criteria	
	Inclusion criteria: if the patient is intubated and under mechanical
	ventilation with SpO2<85% If the patient has confirmed COVID-19
	Exclusion criteria:
	Coexisting underlying pulmonary disease except for COVID-19 Underlying congenital hear disease
Age	
	From 18 years old to 99 years old
Gender	
	Both
Phase	_
	3
Groups that have been masked	
	ParticipantCare provider
	 Care provider Investigator

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Sample size	
	Target sample size: 60
Randomization (investigator's opinion)	
	Randomized
Randomization description	
	After the participant enters the study, i.e. after the qualification of the patients in the trial is confirmed and their informed written consent is taken, simple randomization will be done as follows: 1- Table of random numbers will be used for creation of coincidence of random allocation. 2- In order to hide the random allocation process, the central randomization approach will be used, while the random sequence would be at the disposal of one of the researchers except for the principal investigator.
Blinding (investigator's opinion)	Triple blinded
Blinding description	_
	participants after entering the study would not know whether they are in the drug or placebo group healthcare providers (Physicians and nurses) would administer the prepared vial including drug or placebo while they do not know its content; the vial would be assimilated; regardless of drug or placebo principle investigator does not know whether the patient belongs to the drug group or the placebo group since the patients have been randomized
Placebo	Not used
Assignment	
	Factorial
Other design features	
	COVID-19 treatment study

Secondary Ids

empty

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Ethics committees

1

Ethics committee

Name of ethics committee

Shahid Beheshti University of Medical Sciences

Street address

Deputy for Research and Technology, Shahid Beheshti University of Medical Sciences, Velenjak

City

Tehran

Province

Tehran

Postal code

1985717443

Approval date

2020-03-28, 1399/01/09

Ethics committee reference number

IR.SBMU.RETECH.REC.1399.016

Health conditions studied

1

Description of health condition studied

Mortality of Patients from COVID-19

ICD-10 code

U07.1

ICD-10 code description

COVID-19

Primary outcomes

1

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Description	
	time for mechanical ventilation
Timepoint	
	throughout the study, the time that patient has stayed under mechanical ventilation
Method of measurement	
	clinical records
econdary outcomes	
1	
Description	
	ICU mortality rate
Timepoint	
	throughout the study in the ICU ward
Method of measurement	clinical records
Method of measurement	clinical records
	clinical records
	clinical records
itervention groups 1	clinical records
Method of measurement ntervention groups 1 Description	
ntervention groups 1 Description	Intervention group: Intra-tracheal surfactant in COVID-19 patients who are under mechanical ventilation, which includes the administration of a standard dose of surfactant inside the airway of the patient with COVID-19 diagnosis, which is administered immediately on the first day of intubation and in two doses at intervals within 6 hours. The dose of the drug is a vial containing 4 ml, equivalent to 100 mg, which is prescribed for an adult weighing about 70 kg each time, and if the patient's weight is higher, it will be adjusted accordingly. The drug is from the brand Beraksurf® and is supplied by Tekzima.
ntervention groups 1	Intervention group: Intra-tracheal surfactant in COVID-19 patients who are under mechanical ventilation, which includes the administration of a standard dose of surfactant inside the airway of the patient with COVID-19 diagnosis, which is administered immediately on the first day of intubation and in two doses at intervals within 6 hours. The dose of the drug is a vial containing 4 ml, equivalent to 100 mg, which is prescribed for an adult weighing about 70 kg each time, and if the patient's weight is higher, it will be adjusted accordingly. The drug is from the brand Beraksurf® and is supplied by Tekzima.
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Control group: all the treatment protocols including standard of care is the same as the treatment group; except for the intrathecal administration of surfactant. An equivalent volume of normal saline is used as placebo

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Modarres hospital

Full name of responsible person

Ali Dabbagh

Street address

Sa'adat Abad

City

Tehran

Province

Tehran

Postal code

1998738341

Phone

+98 21 2207 4100

Fax

+98 21 2207 4101

Email

alidabbagh@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

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Afshin Zarghi

Street address

Velenjak, Chamran Exp Way

City

Tehran

Province

Tehran

Postal code

1983535511

Phone

+98 21 2387 2202

Fax

+98 21 2387 2202

Email

info@sbmu.ac.ir

Grant name	
Grant code / Reference number	
Is the source of funding the same sponsor organization/entity?	
	No
Title of funding source	
	Shahid Beheshti University of Medical Sciences
Proportion provided by this source	
	100
Public or private sector	
	Public
Domestic or foreign origin	
	Domestic
Category of foreign source of funding	
	empty
Country of origin	
Type of organization providing the funding	
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Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Ali Dabbagh

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

Street address

Sa'adat Abad

City

Tehran

Province

Tehran

Postal code

1998738341

Phone

+98 21 2387 2202

Email

alidabbagh@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Ali Dabbagh

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

Street address

Sa'adat Abad

City

Tehran

Province

Tehran

Postal code

1998738341

Phone

+98 21 2207 4101

Email

alidabbagh@yahoo.com

Person responsible for updating data

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Ali Dabbagh

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

Street address

Sa'dat Abad

City

Tehran

Province

Tehran

Postal code

1998738341

Phone

+98 21 2207 4101

Email

alidabbagh@yahoo.com

Sharing plan

illig plati	
Deidentified Individual Participant Data Set (IPD)	
	Yes - There is a plan to make this available
Study Protocol	
	Yes - There is a plan to make this available
Statistical Analysis Plan	
	Yes - There is a plan to make this available
Informed Consent Form	
	Yes - There is a plan to make this available
Clinical Study Report	
	Yes - There is a plan to make this available
Analytic Code	
	Yes - There is a plan to make this available
Data Dictionary	-
	Yes - There is a plan to make this available
Title and more details about the data/document	
	all collected deidentified IPD
When the data will become	
available and for how long	
	starting in January 2022
To whom data/document is available	
	the data would be available for people working in academic institutions and people working in
	businesses
Under which criteria	
data/document could be used	

by formal permission form PI

From where data/document is obtainable	
	Address of the Principal Investigator
What processes are involved for a request to access data/document	
	Formal application confirmed by the institution
Comments	_

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Tel:

Working hours: 8:00 - 15:30 Tehran time 11:30 - 19:00 GMT

0098 21 8670 5503

During COVID-19 Epidemic at working times:

0098 936 770 7834

Fax:

0098 21 8670 5503

Email:

admin@irct.ir (mailto:admin@irct.ir)

Directly contacting the manager:

0098 912 778 2686

Address:

IRCT administration team, Central Library Building, Iran University Campus, Hemmat freeway, next to Milad tower, Tehran, 14496-14535 Iran

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