

Driver Alcohol Detection System for Safety: Field Operational Test

Orientation

Submitted by:



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Principal Investigator

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HSD Study Day Checklist

Participant ID: HSD-	Date:	Arrival time:
MINIMUM 1 WEEK BEFORE STUDY ☐ Confirm date of study ☐ Confirm scenario/protocol bein ☐ Confirm address to send Binax ☐ Conduct Health Screening Que ☐ Notify and schedule staff for st	ng run (Staff Responsible: NOW™ COVID-19 Self-Test estionnaire (Staff responsible:	
participant anytime within 24 h ☐ Remind subject of restrictions f ☐ Remind them to bring their own ☐ Make sure screening room will	N [™] COVID-19 Self-Test and arranours of study. (Date and Time of for study day in source of entertainment for the label free rotocol:, Route:	day- phone, laptop, books, etc.
DAY BEFORE STUDY ☐ Obtain Subject ID #: ☐ Conduct Health Screening Que ☐ Conduct BinaxNOW™ COVII Staff responsible:, Test R	estionnaire (Staff responsible: D-19 Self-Test with participant vi	
☐ Qualified to proceed? Y If NO, read positive antigen test script a	_	
☐ Confirm route (Staff responsibl☐ Make sure that graduated cylind☐ Check dose from rough weight☐ Ensure that we have toast, butte☐ Car☐ Water bottles	rforming informed consent (Staff le:, Route:ders for measuring vodka and that estimate and check to make sure	responsible:)) ut dosing cups are clean
☐ Crackers ☐ Barf bags ☐ Clean biohazard bucke ☐ Gloves ☐ Mouthpieces for Smart ☐ First-aid kit ☐ Paper towels ☐ Disinfectant wipes or s ☐ Phone chargers ☐ LED Flashing lights ☐ Fix-a-flat ☐ ACTS Letter	t Start	



☐ BRANY IRB Approval letter

Set-up scale and height measurement tools in screening room Prepare biohazard bucket with new drug test cup and pregnancy test (if female) Two Slices bread (2 butter, 2 jam) and OJ - put in refrigerator Make sure screening room and HS bathroom are clean Place blank Informed Consent Form into the room Place blank Informed Consent Form into the room Place blank in car measurements sheet in room Place blank in car measurements sheet in room Place blank in car measurements sheet in room Bnsure pack of gloves, paper towels, and short trash barrel are in the room Confirm study staff BinaxNOW™ COVID-19 Self-Test result (Staff Responsible) Driver (init:), Result:, Re (init:), Result:, Result:	STUDY DAY BEFORE SUBJECT ARRIVES
Make sure screening room and HS bathroom are clean Place blank Informed Consent Form into the room Place W-9 Form into the room Place Study-day/set-up Panera menu in the room Place blank in car measurements sheet in room Place blank in car measurements sheet in room Ensure pack of gloves, paper towels, and short trash barrel are in the room Confirm study staff BinaxNOW™ COVID-19 Self-Test result Staff Responsible Driver (init:	☐ Set-up scale and height measurement tools in screening room
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 □ Ensure pack of gloves, paper towels, and short trash barrel are in the room □ Confirm study staff BinaxNOW™ COVID-19 Self-Test result □ Check Health Screening Questionnaire's for research staff & for participant (Staff responsible:	
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responsible:	
□ Ensure that driver/proper personnel completed the Vehicle Inspection Checklist form on Microsoft Forms by 9:30 AM. WHEN SUBJECT ARRIVES Human Subject Screening Room: □ Check for Uber/Lyft receipt (Staff responsible:) □ Check for Valid form of ID. □ Confirm identity and age (Birth Year:) (Staff responsible:) □ Form of ID Provided:) □ Informed Consent Form (Staff responsible:) □ Informed Consent Form (Staff responsible:) □ Gollect spare COVID-19 Self-Test test kit (if applicable). (Staff responsible:) □ Go over current study protocol (route for the day, what they will be expected to do) Protocol Description: Today we will be completing the route(s) (SHOW MAP). In a couple minutes, we will be doing an orientation in the vehicle to make sure you are comfortable and understand who is being asked of you, but as an overview, you will be in the passenger seat of the car for the duration of the study and you will be expected to administer breaths to three alcohol breath sensors. The testing sessions will be about 2 minutes, followed by a 2 minute break where you will not need to administer breaths. The User Interface Module, located on the dash of the car, will provide written instructions of what you need to be doing. The research assistant in the car will also be available to prompt you and give instruction or help throughout the study. Please let us know throughout the study day if you have any questions or concerns. □ Reference breathalyzer: Last Food (no food after 8pm): Last Alcohol (nothing for 36 hours): Last Original (nothing for 2 days): Last Medication Use (nothing for 12 hours): Last Medication Use (nothing fo	responsible:)
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	☐ Last Drug Use (nothing for 2 days):
□ FIISUUGV OLIGSUIIEIISUUGI CVCIE.	☐ Last Medication Use (nothing for 12 hours) ☐ First day of last menstrual cycle:



	Urine Sample:	ic.
	☐ Drug Test (Results:) ☐ Pregnancy Test (Results:)	
	Height:	
	Height: Weight: BMI:	
	Temperature (F):	
	Qualified to proceed? Y N Staff Signature:	
	Lunch Order	
_	☐ Staff member to pick up lunch:	
	Breakfast (2 pieces of toast, 2 butter/jam, and 1 clear glass of OJ) Staff Responsible:	-
	Orientation with the car	
	Driver: RA(s):	
	☐ Introduce driving team☐ Show the participant where the User Interface Module is and familiarize with prompts	
	☐ Complete in car measurements sheet	
	Run through two complete cycles with the participant and ensure they are able to follow the	he
	directions and understand what data collection will require	
_	Alachalananandan	
	Alcohol preparation: aff Member 1 Responsible: Staff Member 2 Responsible:	
	Drink master (print 1 and save a digital copy) Alcohol Dose: Mixer Dose:	
	□ Need: Completed drink master, Vodka, 3 tumblers, 4 solo cups, beakers	
	☐ Lock Vodka back in study fridge Staff Member Responsible:	
_	P. J. J. M. PETODE J. J.	
Ц	Bathroom break if necessary BEFORE drinks	
	Explain room:	
	U^{T} This is where you will be for the duration of the study when you are not in the car. After you r	eturn
	from the driving route, you will return to this room where you will be able to eat lunch, relax	
	keep yourself entertained with your phone, laptop, books, or whatever you have brought. We w	
	to make sure that you are comfortable, please let us know if there is anything we can get you to make you feel more comfortable.	or do
	to make you feet more comfortable.	
Alcoh	ol Administration:	
	Bring tray into Chamber	
	$\sf U$ You will be given three drinks of vodka OR a mixed drink (clarify which one it will be for the da	y)
	and will have 10 minutes to finish the drink(s).	
	If Shots : We will also ask you to swish and rinse with water after each drink (signal showing that v	
	is in the solo cups). Please do not swallow the water. The purpose of this is to eliminate any resmouth alcohol.	iaual
	mouth alconol. If Mixed Drink or Chaser : We will also ask you to swish and rinse at the very end with water (sign	al
	showing that water is in the solo cup). Please do not swallow the water. The purpose of this is t	

eliminate any residual mouth alcohol.



$oldsymbol{U}$ I will be handing you the drinks of vodka, which you will drink when I say go. You have 10 minutes
to finish the drinks. After 10 minutes, we will take you out to the car and you will be driven on a pre
mapped route to(location). In case you are not feeling well in anyway during this process,
please let me know. Please let us know as soon as possible if you are ever feeling ill during the drive
as well. Do you have any questions?
□ Drink: Time 00:00:00 (" <i>GO!</i> ") Real Time Start Time:
☐ Subject begin drinking
☐ Start clocks (Staff responsible:)
☐ Finish drink (00:10:00) Real Time End Time:
☐ Time of departure with driving team:
POST STUDY
POST STUDY Monitor BrAC every 15 minutes
 □ Monitor BrAC every 15 minutes □ Given them signed copies of their ICF □ Cleared to go?
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 □ Monitor BrAC every 15 minutes □ Given them signed copies of their ICF □ Cleared to go?
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 □ Monitor BrAC every 15 minutes □ Given them signed copies of their ICF □ Cleared to go? □ BrAC: Staff Sign off: □ Call Uber/Lyft and ensure that they safely enter the correct vehicle (Staff responsible:) □ Clean HS screening room □ Ensure that KEA study personnel check-in with Kelly or Kianna regarding the study □ Ensure that KEA study personnel have filled out all required forms for the day
 □ Monitor BrAC every 15 minutes □ Given them signed copies of their ICF □ Cleared to go? □ BrAC: Staff Sign off: □ Call Uber/Lyft and ensure that they safely enter the correct vehicle (Staff responsible:) □ Clean HS screening room □ Ensure that KEA study personnel check-in with Kelly or Kianna regarding the study □ Ensure that KEA study personnel have filled out all required forms for the day □ Check Request Submitted (\$30 + Uber compensation)
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Health Screen

- 1. Are you experiencing any of the following symptoms:
- a) Fever or feeling feverish
- b) Sore throat
- c) New cough
- d) Nasal congestion or new runny nose
- e) Muscle aches
- f) New loss of smell or taste
- g) Shortness of breath
- h) Diarrhea, nausea, or other GI symptoms
- i) No Symptoms
- 2. Have you traveled outside of Massachusetts in the last 14 days?
- a) Yes. Where:___*
- b) No (SKIP TO QUESTION 4)

*If yes:

International travel: wait minimally two weeks to schedule.

Domestic travel:

- 3. Did you take a plane?
- a) Yes*
- b) No**

- **Did you drive a personal vehicle?
 - a) Yes*
 - b) No**

*yes: fine to proceed with scheduling

- **no: how did you travel to this location?
 - 4. Have you had contact in the last 2 weeks with anyone who has had the above symptoms or who has suspected or known positive COVID-19
 - a) Yes*
 - b) No
 - *Ask if they have been or are planning to get tested and verify vaccination status. Wait two weeks to schedule.
 - 5. Do you wear a face mask or covering according to state guidelines/requirements?
 - a) Yes
 - b) No

^{*}Wait a week to schedule study post plane travel



Script for Positive Antigen Test

Your test for COVID-19 is positive. However, this test is not 100% definitive. The golden standard for tests is PCR tests and this test is an antigen test. We advise you to visit https://www.mass.gov/covid-19-testing to find the nearest COVID-19 testing site and to contact your doctor or visit an urgent care center if you develop symptoms and feel unwell. Until you have a PCR test, you should do the following:

- **Monitor your symptoms**. If symptoms develop or worsen, call your doctor's office. If you have a medical emergency and need to call 911.
- Stay home except to get medical care. Call ahead before visiting the doctor to let the office know you had a positive antigen test. When leaving home for essential medical care, avoid public transportation, including buses, trains, ride-sharing services, and taxis.
- **Separate from other people and animals in your home**. This includes staying in a single room away from other people and using a separate bathroom if available. If there isn't, the bathroom should be cleaned and disinfected after you use it. Please do not allow visitors who do not have an essential need to be in the home.
- Wear a covering or mask around other people and pets, even at home. Wear a face covering or mask around other people and pets, including at home and in vehicles. If you have trouble breathing with a face covering or mask on, other people in the household should wear a face covering or mask when in the same room as you.