## TELEPHONE SURVEY FOR ARSENIC IN ADULT PARTICIPANTS FROM BIOMONITORING CALIFORNIA PROJECTS

		Participant	i ID#			
Date survey co	ompleted://	(mo/day/yr)				
Survey adminis	stered by	(first name)	(last name)			
Refer to teleph	none script for how to initia	te contact or leave a mess	sage if necessary.			
We collected a including arser	a urine sample from you or nic.	insert date> and measu	red various chemicals,			
you some ques This is a volun	We found that the level of total arsenic in your urine was higher than expected. I would like to ask you some questions that will help us understand how you may have been exposed to arsenic. This is a voluntary survey. You can refuse to answer questions, you can skip any of the questions, or you can stop at any time.					
Do you have a	ny questions for me before	e we begin?				
arsenic.  1. When we the Some examed Cream of Fourth, rice based processizes as near the Source of	hink about how much rice mples include cold rice cer Rice®), rice cakes, rice crac milk, and horchata (a drinl ducts? (Note to staff admin eeded and fill out data table es:  Can you tell me the types	you eat, we also want to in eals (such as Rice Krispie ckers, rice pasta or noodle k that can be made from ri histering survey – ask follo e for question 2.)	and beverages can contain nclude rice-based products. (s®), hot rice cereals (such as s, rice pudding, brown rice ce). Do you eat or drink rice-w-up questions on serving			
•	eat or drink?  □ Don't know / unsure □ Refused  For each rice-based produor snack in a normal  week? □ Don't know / unsure	uct, how many times do yo	ou usually consume it as a meal			

<sup>&</sup>lt;sup>1</sup> Some questions in this survey were drawn from the Florida Department of Health Acute Arsenic Poisoning Case Report Form. (<a href="http://www.floridahealth.gov/diseases-and-conditions/disease-reporting-and-management/disease-reporting-and-surveillance/">http://www.floridahealth.gov/diseases-and-conditions/disease-reporting-and-management/disease-reporting-and-surveillance/</a> documents/crf-arsenic.pdf)

	•	☐ Refused For each rice-based product, about how much do you usually consume each time you eat or drink it?
	□ No	☐ Don't know / unsure ☐ Refused now / unsure
	☐ Refuse	
2.	foods that granola. ( <i>I</i> needed ar	th prepared foods that list brown rice syrup as an ingredient? Some examples of may contain brown rice syrup are energy bars, cereal bars, granola bars, and Note to staff administering survey – ask follow-up questions on serving sizes as and fill out data table for question 3.)
	• If \ •	fes:  Can you tell me the types and brand names of the foods that may contain brown rice syrup that you usually eat?
		☐ Don't know / unsure ☐ Refused
	•	For each food item, how many times do you usually consume it as a meal or snack in a normal week?
	•	☐ Don't know / unsure ☐ Refused For each food item about how much do you usually consume each time you eat it?
		□ Don't know / unsure □ Refused
	□ No □ Don't kı □ Refuse	now / unsure d
3.	such as bi	r does someone in your home, prepare or cook foods using rice-based ingredients, rown rice syrup or rice wine vinegar? (Note to staff administering survey - see table on 4 at the end of this questionnaire to fill in responses.)
		/es:
	•	Can you tell me the types of foods containing rice-based ingredients that you usually eat?
		☐ Don't know / unsure ☐ Refused
	•	Can you tell me the brands of rice-based ingredients used in these foods?
		☐ Don't know / unsure ☐ Refused
	•	For each food item using a rice-based ingredient, how many times do you usually consume it as a meal or snack in a normal week?
		☐ Don't know / unsure

		☐ Refused For each food item prepared using a rice-based ingredient, about how much do you usually consume each time you eat or drink it?
	□ No	□ Don't know / unsure □ Refused
	☐ Don't kno	ow / unsure
4.	your usual o	responded NO in previous survey) In the last survey we asked if you eat seaweed in diet. You answered that you <insert do="" not="" or=""> eat seaweed. Certain types of alled hijiki seaweed, a short, black noodle-like seaweed, can sometimes contain</insert>
5.	last survey. includes fish may get in a	responded NO in previous survey) We also asked if you eat fish and shellfish in the You answered that you <insert do="" not="" or=""> eat fish and shellfish. This also and shellfish caught by you, family members, or friends, in addition to what you a store or restaurant. Some forms of arsenic, like the type of arsenic found in fish, uch of a health concern, but knowing if you eat these foods helps us interpret your ults.</insert>
6.	bought mus ask follow-u data table for □ Yes • If Yes	es report finding arsenic in mushrooms. Do you eat mushrooms, including store- throoms or wild mushrooms that you collect? ( <i>Note to staff administering survey</i> –  up questions on foraging locations and mushrooms collected as needed and fill out for question 8.)  es:  How many times do you usually eat mushrooms in a normal week??  □ Don't know / unsure
	• I	☐ Refused How much do you usually eat during a normal week?
	• \	☐ Don't know / unsure ☐ Refused What particular type or types of mushrooms do you usually eat?
	• [	<ul> <li>□ Don't know / unsure</li> <li>□ Refused</li> <li>Do you forage for mushrooms?</li> <li>□ Yes</li> <li>• If Yes – in which locations do you forage for mushrooms? For each location, can you tell me what type or types of mushrooms you collect there?</li> </ul>
	□ No □ Don't kno	□ No □ Don't know / unsure □ Refused  ow / unsure

	☐ Refuse	d
7.	beverages survey – a question 9 □ Yes	tion is about alcoholic beverages. Arsenic has been found in some alcoholic s. Do you drink beer, wine, and/or sake (rice wine)? (Note to staff administering ask follow-up questions on serving sizes as needed and fill out data table for 9.)  Yes:
	•	Can you tell me the types and brand names of the alcoholic beverages you usually drink?
		☐ Don't know / unsure ☐ Refused
	•	For each beverage type (beer, wine, and/or sake [rice wine]), how many times do you usually drink it in a normal week?
		☐ Don't know / unsure ☐ Refused
	•	For each beverage type (beer, wine, and/or sake [rice wine]), about how much do you usually drink each time?
	□ No □ Don't kı □ Refuse	□ Don't know / unsure □ Refused  now / unsure d
8.		reports of arsenic in some teas. Do you drink tea? (Note to staff administering ask follow-up questions on serving sizes as needed and fill out data table for 10.)
	• If \	es:
	•	What types of tea (e.g., black, green, herbal) do you usually drink in a normal week?
	•	Can you tell me the brand names (such as Lipton®, Twinings®, Celestial Seasonings®)?
	•	Can you tell me specific types of these teas (such as green tea, English breakfast, Assam black tea, rooibos)?
	•	Can you tell me what country they came from?
		☐ Don't know / unsure ☐ Refused
	•	For each type of tea, how many times do you usually drink it in a normal week?
		☐ Don't know / unsure ☐ Refused

		•	For each type of tea, about how much do you usually drinl	k each time?
	<b>-</b> N		☐ Don't know / unsure ☐ Refused	
	□ No □ Doni □ Refu		now / unsure d	
9.	apple a end of □ Yes	ınd/ this	as been found in the past in a few kinds of apple and grape for grape juice? (Note to staff administering survey - see take questionnaire to fill in responses.)  Yes:	ble for question 11 at the
		•	Do you usually drink apple or grape juice in a normal weel	k? 
		•	Can you tell me the brand names of these juices?	
			☐ Don't know / unsure ☐ Refused	
		•	For each type of juice (apple and grape), how many times a normal week?	do you usually drink it in
			☐ Don't know / unsure ☐ Refused	
		•	For each type of juice (apple and grape), about how much each time?	do you usually drink
			☐ Don't know / unsure ☐ Refused	
	□ No □ Don □ Refu		now / unsure d	
10.	arsenic □ Yes	in t	king water sources can contain arsenic, especially if it is in the soil. Do you drink or cook with water that comes from a   No Don't know / unsure	private well?
		□ \ If it	'es – has the water been tested for chemicals, including are Yes ☐ No ☐ Don't know / unsure that been tested for arsenic, what were the results? ☐ Refused	☐ Refused
11.			year, did you visit family or friends who drink or cook with v	vater that comes from a
	private □ Yes •	If Y	☐ No ☐ Don't know / unsure 'es – did you drink water or eat meals or snacks with those	☐ Refused family or friends while
	•	□ \	u were visiting them? Yes □ No □ Don't know / unsure Yes- where do they live?	□ Refused

	•	If Yes – has the water been tested for chemica ☐ Yes ☐ No ☐ Don't know If Yes – what were the arsenic results?		□ Refused
		□ Don't know / unsure □ Refused		
	month □ Yes	travel in the month before you gave us your band year>?  If Yes – where did you travel?	olood and urine sample	s on <insert< th=""></insert<>
	•	Tes – where did you traver:		
	□ No	I'm going to list some international locations. It the last week, please tell me.  Chile Argentina Bangladesh India Nepal China Taiwan Thailand Other: On't know / unsure	El mention a location y	ou traveled to in
	herbal medici "home	sk if responded NO in previous survey) In the last nedicines and traditional remedies. Arsenic ha es and traditional remedies. These kinds of pr pathic," "naturopathic", or "folk" medicines. Ag inking about arsenic exposures.	as been found in some roducts are sometimes	imported herbal called
:	supple s <i>urvey</i>	is sometimes found in some seaweed or algaments. Do you take any of these types of suppeask follow-up questions on serving sizes as ins 16 and/or 17.)  If Yes:  Can you tell me the types and brand name algae supplements that you take?	lements? (Note to staff needed and fill out data	f administering a table for
		For each supplement that you take, approximately, or monthly)?	ximately how often you	take it (e.g., daily,
		For each supplement that you take, how m	nany or how much do y	ou take at a time?
	□ No □ Don □ Refu	: know / unsure sed		

15.	5. Do you take any other types of supplements? This does not mean these items contain arsenic, but some supplements have been found to contain arsenic. (Note to staff administering survey – ask follow-up questions on serving sizes as needed and fill out data table for questions 16 and/or 17.)					
16.	today of treated contain slits what structure	do not cont d wood use n arsenic. A here the chures such a r contact wis If Yes – do If Yes – do If Yes – do	ain arsenic. Ho d for certain ap Arsenic-treated emicals were in s playground e ith this type of v  No o you know who o you ever barb	owever, pressure-treated polications (e.g., for four wood may be greenish injected. Pressure-treated quipment, decks, picnic wood?  □ Don't know / unsure ther the structure was in Don't know pecue with or otherwise	installed before 2004? / unsure ☐ Refused burn recycled wood (for example de pressure-treated wood.	e- can nall
17.	arsenic soil. D dust?	c exposure o you regul Some exan istering sur nses.)	, but to be thore arly participate aples include g	ough we want to ask yo in activities that involve ardening, off-roading, o	is unlikely to be a source of signiful how much contact you have with extensive contact with soil, dirt, for trail hiking. (Note to staffeend of this questionnaire to fill in	th
	•	Activity		Location	How often do you participate in them? (i.e. daily, weekly, or monthly)	
	□ No □ Dor □ Ref	n't know / ur	now / unsure	□ Refused		
18.	specia	ılized art piç	gments? Some nt and Conicha	pigments containing ar lcite).	crafts materials. Do you use senic can still be purchased (for	
	☐ Yes	3	□ No	☐ Don't know / unsure	e □ Refused	
19.	cosme or herb	etics or pers bs could be	onal care prod marketed as "l	ucts containing muds o	and knock-off, cosmetics, and sor r herbs. The products containing ude herbal soaps, herbal creams,	muds

	f your doctor has ever administered Trisenox to ospital or clinic setting and cannot be prescribed
<ul> <li>If Yes –when did you last receive Trise</li> </ul>	enox?
☐ Don't know / unsure ☐ Re	efused
21. Smoking can also be a source of arsenic. cigarettes per day. Is this correct?□ Yes know / unsure □ Refused	You told us that you smoke <insert #=""> □ No □ Used to smoke, but quit □ Don't</insert>
22. Certain occupational settings or job-related acknow if you work with or have come into conta ☐ Yes ☐ No ☐ Don't kno  • If Yes – what type of work do you do?	act with arsenic at your job?
<ul><li>□ Don't know / unsure</li><li>If Yes – when were you employed at the</li></ul>	☐ Refused his job?
□ Don't know / unsure	☐ Refused
23. I am now going to go through a list of industrie survey – read down left column first, then right any of the following, please tell me.	es and work settings. ( <i>Note to staff administering</i> at column.) If you regularly work in or are around
<ul> <li>□ Electronics manufacturing</li> <li>□ Battery or electronics recycling</li> <li>□ Emergency response, such as firefighti</li> <li>□ Agriculture (crops/livestock)</li> <li>□ Landscape maintenance, especially herbicide application</li> <li>□ Road or pavement work with road reflection</li> <li>□ Construction and/or demolition</li> </ul>	<ul><li>☐ Mining industry</li><li>☐ Smelter industry</li><li>☐ Waste incinerator</li></ul>
(Note to staff administering survey: If respondent ask for details on where he/she goes [e.g., facility industry/facility [e.g., tend livestock], whether he/s follows other guidelines, if he/she is aware of any etc. If participant indicates that he/she does road reflectors are made of glass beads and what is the Please use additional pages as needed.)	name, location], what he/she does at the she uses personal protective equipment and arsenic uses [e.g., herbicides] in these settings, or pavement work with road reflectors, ask if the
24 Can you think of any other information about	your possible current or past arsenic exposures?

Thank you for taking this survey. We hope this information will help you think about possible ways you could have come into contact with arsenic, and try to prevent it in the future. This information also helps us learn more about how people come into contact with arsenic. Do you have any questions for me? You can also feel free to contact us in the future if questions come up.

**DATA TABLE FOR QUESTION 2 (rice products)** 

Type of rice product	Brand, if identified	Frequency in last 3 days	Amount consumed (serving size)

DATA TABLE FOR QUESTION 3 (foods containing brown rice syrup)

Britis in Bee in Color of local containing brown new cyrapy					
Type of food that may contain brown rice syrup	Brand, if identified	Frequency in last 3 days	Amount consumed (serving size)		

DATA TABLE FOR QUESTION 4 (rice-based ingredients)

Type of rice- based ingredient	Food prepared with rice-based ingredient	Brand, if identified	Frequency in last 3 days	Amount consumed (serving size)

**DATA TABLE FOR QUESTION 8 (mushrooms)** 

Foraging location	Type(s) of mushrooms collected

**DATA TABLE FOR QUESTION 9 (alcoholic beverages)** 

Type of beer or wine (including sake [rice wine])	Brand, if identified	Frequency in last 3 days	Amount consumed (serving size)

**DATA TABLE FOR QUESTION 10 (tea)** 

Tea type	Brand and/or type, if identified (e.g., Twinings Earl Grey)	From which country, if identified	Frequency in last 3 days	Amount consumed (serving size)

**DATA TABLE FOR QUESTION 11 (apple and grape juice)** 

Type of juice	Brand, if identified	Frequency in last 3 days	Amount consumed (serving size)

DATA TABLE FOR QUESTIONS 16 and/or 17 (supplements)

Kelp, seaweed, or algae supplement	Brand, if identified	Frequency of consumption	Amount consumed (e.g., teaspoon/ tablespoon; number of pills)
Other supplements	Brand, if identified	Frequency of consumption	Amount consumed

DATA TABLE FOR QUESTION 19 (soil/ dirt/ dust activities)

Activity description	Location(s)	Frequency