

INTERESTED IN BEING A PART OF A **LIVER Health STUDY?**

WHAT IS THE PURPOSE OF THIS STUDY?

This study seeks to understand the role of a common bacteria found in the environment, called Cyanobacteria, and the poisons they produce that may lead to chronic liver disease and liver cancer.

AM I ELIGIBLE FOR THIS STUDY?

- You must be 40-70 years old and a resident of Hawai'i
- No history of cancer
- You must also meet other medical criteria
- The study staff will talk to you and find out if you are eligible

WHAT DO I HAVE TO DO?

This study visit will be at the UH Cancer Center in Kaka'ako and may require up to 2 hours of your time. During that time you will:

- Answer a survey about your medical history and other health information
- Complete height, weight, waist, and blood pressure measurements
- Have an ultrasound of your liver (also called FibroScan)
- Provide saliva, urine, and blood samples

AFTER COMPLETION OF THIS STUDY VISIT, YOU WILL RECEIVE A **\$50 GIFT CARD** FOR YOUR TIME AND EFFORT.

HOW DO I FIND OUT MORE?

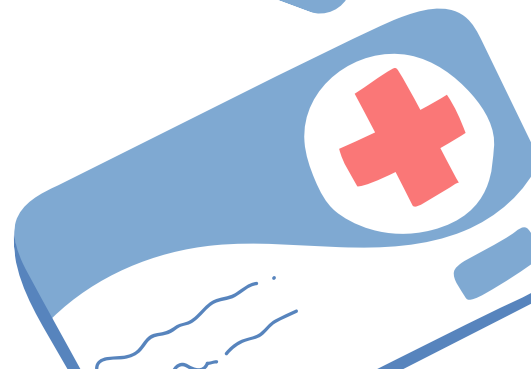
Contact the University of Hawai'i Cancer Center by

Email: **liverhealth@cc.hawaii.edu**

Or Phone: **(808) 564-5828**



UNIVERSITY OF HAWAII
CANCER CENTER



Cyanotoxins and Liver Health Study

INFORMATION SHEET: STUDY PARTICIPANTS

STUDY PURPOSE: Chronic liver disease, which can lead to the development of liver cancer, is increasing in the U.S. and in many parts of the world. Obesity, diabetes, alcohol, and hepatitis viruses are known risk factors. The purpose of this study is to investigate the role of cyanobacteria, which are common bacteria found in the environment, and the toxins they produce (cyanotoxins) in the development of chronic liver disease and liver cancer.

ELIGIBILITY CRITERIA: To be eligible to participate in this study, you must:

- Be between 40-70 years old
- Be a resident of Hawaii
- Be English-speaking
- Have no history of cancer and no blood clotting disorder
- Have no implantable electronic device (pacemakers, defibrillators, or pumps) as these can interfere with the FibroScan readings
- Not be currently pregnant and must not have given birth within the past 12 months

STUDY PROCEDURES: Your written consent to participate in this study will be obtained. The study visit may require up to 2 hours of your time. As a participant, you will be asked to:

1. Complete a transient elastography (FibroScan), which uses ultrasound to detect fibrosis (overgrowth, hardening, and/or scarring) and steatosis (fat buildup) in the liver.
2. Answer survey questions about the following: personal characteristics (age, sex, race/ethnicity), substance use (tobacco, alcohol, areca nut/betel quid), environmental exposures (residential; occupational; recreational history; sources of seafood, fresh produce, and water consumption), and oral health and medical history (diabetes, hypertension, high cholesterol and lipids, hepatitis B and C).
3. Provide saliva and urine samples to measure cyanobacteria and other bacteria in the mouth as well as cyanotoxins.
4. Provide fasting (no eating for 8-12 hours prior) blood samples (30 - 40 cc). The blood samples will be used to measure cyanotoxins, glucose, insulin, triglycerides, total cholesterol, high- and low-density lipoprotein (HDL, LDL), and hepatitis B and C (HBsAg and anti-HCV).
5. Complete height, weight, waist circumference, and blood pressure measurements.

OTHER STUDY INFORMATION:

Study phone: (808) 564-5828

Email: liverhealth@cc.hawaii.edu

At the completion of the study visit, you will receive a **\$50 gift card** for your time and effort.



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