

Public Health Practice



Stories from the Field

The University of Texas School of Public Health
Student Practicum Experiences
Spring 2015 – Biostatistics

Prevention diabetes safe kids clean water policy disaster response
cancer adolescent sexual health HIV/AIDS research obesity
alcohol empowerment vaccinations maternal & child health

The practicum experience is an integral part of the MPH and DrPH curricula. Public health students are provided with the opportunity to apply their classroom knowledge to real world settings through which they make a meaningful contribution to a public health organization.

Under the guidance of a community preceptor and faculty sponsor, students from all divisions gain a deeper understanding of public health practice, interact with professionals in the field, and expand their repertoire of professional skills.

This sixteenth-edition e-magazine showcases student practicum experiences throughout the Spring 2015 semester. (Prior semesters may be accessed through the e-book, a collection of student abstracts and e-magazines describing their experiences.)



Practicum Topics

Number of Students: 1

Hours per Week per Student	Approximately 12
Campuses (Houston)	1
Division	1

Student

Biostatistics

Conquer Brest Cancer

Takeo Fujii

Conquer Breast Cancer



Nomogram for prediction of pathologic complete response in human epidermal receptor 2 (HER2) positive breast cancer patients treated with neoadjuvant systemic therapy

By: Takeo Fujii

Term; January 12 – May 1

Location; The University of Texas MD Anderson Cancer Center

Local Advisor; Naoto T. Ueno, MD, PhD

- Breast Cancer is one of the biggest health problems
- HER2 positive breast cancer is one of the aggressive types of breast cancer
- Made a nomogram to predict the treatment response to preoperative chemotherapy by using logistic regression models.
- Selected covariates related to good treatment response
- HER2 FISH ratio, estrogen receptor status, inflammatory breast cancer or not, chemotherapy regimens used were selected.
- The model was well validated.

Public Health Significance

Public Health Essential Service(s) (PHES)

-Search for new insights and innovative solutions to health problems.

Our constructed model can provide breast cancer patients with their personalized treatment option by predicting each individuals' sensitivity to preoperative treatment.

By making a personalized treatment strategy, unnecessary drug use can be avoided.

This will lead to the improvement of cost-effectiveness.

High cost-effectiveness is strongly associated with the improvement of quality of life.

Our research will not only be clinically applicable but also directly related to the improvement of health problems such as each individual's disparity and cost-effectiveness.

Special events/ duties during your practicum

- Communication with data manager, research nurses, and faculty advisor to have a protocol approved by IRB
- Cleaning data set, analyzing it, and writing a manuscript

Lessons Learned /Advice for Future Students

- Good communication is a key to become productive in practicum.
- *I am sure that you can find the best local advisor fit to you in Texas Medical Center.*
- *Enjoy your practicum!*



<http://www.heffins.com/blog/2014/10/08/workplace-wellness-10-ways-spread-breast-cancer-awareness>

For more information regarding
The University of Texas School of Public Health,
Office of Public Health Practice
and the practicum program, please visit:
<https://sph.uth.tmc.edu/practicum/>