

## BRIAN S. CUSTER

### EDUCATION

#### 2003 University of Washington School of Pharmacy

##### Department of Pharmacy, Seattle, WA

Ph.D. Pharmaceutical Outcomes Research and Policy

Dissertation: Blood safety and resource allocation: economic analyses of donated blood safety initiatives

#### 1999 University of Washington School of Public Health and Community Medicine

##### Department of Epidemiology, Seattle, WA

M.P.H. Epidemiology

Thesis: The association between breast cancer and meningioma using cancer registry data

#### 1990 University of Oregon College of Arts and Sciences

##### Department of Biology, Eugene, OR

B.S. Biology (cum laude), Chemistry and Art History Minors

### EXPERIENCE

6/03 ... PRESENT

BLOOD SYSTEMS RESEARCH INSTITUTE at BLOOD CENTERS OF THE PACIFIC, SAN FRANCISCO, CA

Research Scientist, Health outcomes and health policy

*Projects: Cost-effectiveness of screening blood for West Nile virus, survey of West Nile virus symptoms in blood donors, analysis of triggers for blood supply screening, analysis of HIV disease progression in the presence of GVB-C co-infection and HAART, donor motivation studies, cost of blood procurement studies*

6/03 ... 9/04

VERITECH CORPORATION, SEATTLE, WA

Consultant, Burden of illness and epidemiology

*Project: Update of the global burden and epidemiology of hepatitis B virus*

Client: Bristol-Myers Squibb

6/98 ... 3/03

UNIVERSITY OF WASHINGTON, HARBORVIEW MEDICAL CENTER, DEPARTMENT OF NEUROLOGY, SEATTLE, WA

Research Assistant, Risk factors for intracranial meningioma

*Objective: Collect and analyze data for a population-based case control study, assess potential etiologic associations between meningioma and dental or medical x-ray exposure, workplace chemical exposure, head trauma, and hormone supplements*

9/99 ... 12/01

UW SCHOOL OF PUBLIC HEALTH AND COMMUNITY MEDICINE AND SCHOOL OF PHARMACY, SEATTLE, WA

Teaching Assistant: *Cost and Outcomes in Health and Medicine, Biostatistics, Quantitative Decision Making for Health Services Management, Pharmacy Law and Ethics*

1/01 ... 4/01

VERITECH CORPORATION, SEATTLE, WA

Consultant, Quality of life and health economic measurements of psoriasis

*Project: Health economics strategy document: PVAC™ for the treatment of psoriasis*

Client: Corixa Corporation

6/00 ... 9/00

DECISION RESOURCES, WALTHAM, MA

Consultant, Descriptive epidemiology and disease burden forecasting

*Projects: Epidemiology of chronic wounds (chronic, venous, arterial, diabetic, and pressure ulcers) in the US and Europe, epidemiology of chronic abdominal pain and chronic pelvic pain in the US, epidemiology of functional (non-ulcer) dyspepsia in the US*

6/98 ... 9/99

UNIVERSITY OF WASHINGTON, SCHOOL OF PHARMACY, SEATTLE, WA  
 Research Assistant, Global burden of hepatitis B virus (Bristol-Myers Squibb grant)  
*Review and synthesize the epidemiology and global disease burden of hepatitis B virus using 24 sentinel countries*

9/97 ... 3/98

UNIVERSITY OF WASHINGTON, DEPARTMENT OF CHEMISTRY, SEATTLE, WA  
 Laboratory Instructor, Inorganic Chemistry

3/93 ... 8/97

ENVIROCHEM SERVICES, NORTH VANCOUVER, BRITISH COLUMBIA  
 Environmental Scientist  
*Conduct human health and safety stochastic risk assessments of contaminated sites, manage and evaluate chemical data from stormwater monitoring and contaminated site investigations, co-ordinate stormwater runoff monitoring for antisapstain chemicals at over 20 sawmills in British Columbia, perform laboratory analyses for contaminants using traditional organic chemistry methods and GC-FID & -EID instruments*

6/91 ... 2/93

US NATIONAL MARINE FISHERIES SERVICE, NORTHEAST PACIFIC OCEAN  
 Biological Observer  
*Analyze fishing fleet catches for species composition and distribution, Monitor adherence to US and international fishing and pollution regulations, Analyze incidental and lethal removal of marine mammals*

6/90 ... 5/91

UNIVERSITY OF OREGON, OREGON INSTITUTE OF MARINE BIOLOGY, CHARLESTON, OR  
 Research Assistant  
*Biochemical analysis of respiratory proteins in invertebrates*  
 ADVISOR: Nora B. Terwilliger

## P U B L I C A T I O N S

Custer B, Tomasulo PA, Murphy EL, Caglioti S, McEvoy P, Harpool D, Busch MP. Triggers for switching from West Nile virus mini-pool nucleic acid technology testing to individual donation NAT testing: analysis of 2003 data to inform 2004 decision-making. *Transfusion*. 2004 Nov;44(11):1547-54.

Custer B, Sullivan SD, Hazlet TH, Iloeje U, Veenstra DL, Kowdley V. Global epidemiology of hepatitis b virus. *Journal of Clinical Gastroenterology*. 2004 Nov-Dec;38(10 Suppl):S158-68.

Custer B, Johnson ES, Sullivan SD, Hazlet TK, Ramsey SD, Murphy EL, Busch MP. Quantifying losses to the donated blood supply due to donor deferral and miscollection. *Transfusion*. 2004 Oct;44(10):1417-26.

Custer B. Economic analyses of blood safety and transfusion medicine interventions: a systematic review. *Transfusion Medicine Reviews*. 2004 April;18(2):127-143.

Custer BS, Koepsell TD, Mueller BA. The association between breast carcinoma and meningioma in women. *Cancer*. 2002 Mar 15;94(6):1626-35.

Custer B, Johnson ES, Sullivan SD, Hazlet TK, Ramsey SD, Murphy EL, Busch MP. Community blood supply model: Development of a new model to assess the safety, sufficiency, and cost of the blood supply. *Medical Decision Making (In press)*

Shander A, Aledort LA, Busch MP, Custer BS, Fergusson DA, Goodnough LA, et al. Accounting for the cost of blood: Report from a multidisciplinary consensus conference to establish a standard methodology. *Transfusion Medicine Reviews*. (In Press)

Longstreth WT Jr, Phillips LE, Drangsholt M, Koepsell TD, Custer BS, Gehrels J-A, van Belle G. Dental x-rays and the risk of intracranial meningioma: a population-based case-control study. *Cancer*. 2004 Mar 1;100(5):1026-34.

Phillips LE, Longstreth Jr WT, Koepsell T, Custer BS, Kukull WA, van Belle G. Active and passive cigarette smoking and risk of intracranial meningioma. *Neuroepidemiology*. 2004 Dec 30;24(3):117-122.

## **ABSTRACTS, REPORTS AND POSTERS**

Custer B, Busch MP, Marfin T, Petersen L. Cost-effectiveness of West Nile virus nucleic acid test blood screening of in the US. 28th Congress of the International Society of Blood Transfusion. Vox Sanguinis 2004;87(Suppl 3);59. (Abstract)

Custer B, Laycock M, Zdunek D, Hess G, Busch M. Effect of GBV-C acquisition by blood transfusion on HIV RNA and CD4 parameters. 11th Conference on Retrovirus and Opportunistic Infections, Program and Abstracts. 2004:364. (Abstract)

Custer BS, Johnson E, Murphy E, Busch M. Assessing the impact of expanded vCJD deferral using a new community blood supply policy model. Transfusion. 2003;43(Suppl);132A. (Oral Presentation)

## **HONORS AND ACTIVITIES**

Blood Systems Foundation, Fellowship in Blood Donor Epidemiology, 1/02-5/03

Achievement Awards for College Scientists Fellow, 9/99-9/02

Phi Beta Kappa, 6/90

American Heart Association Research Training Fellowship, 6/89

Bausch and Lomb Science Achievement Award, 6/86