

DEREK PRICE

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EDUCATION

PhD Veterinary Epidemiology. University of Prince Edward Island. 2017
Thesis: *Improving the prevention and control of piscirickettsiosis in Chile*.
Supervisors: Sophie St-Hilaire, DVM, MSc, PhD - Javier Sánchez, DVM, PhD

DVM. Universidad Austral de Chile. 1998
Thesis: *Detection of the Feline leukemia virus antigen and Feline immunodeficiency virus antibody in cats in the city of Valdivia*. Supervisor: Germán Reinhardt, DVM, Dr.med.vet.

RESEARCH EXPERIENCE

Postdoctoral Fellow. Canada Excellence Chair in Aquatic Epidemiology. 2017 – Present
Atlantic Veterinary College, UPEI, Charlottetown, Canada.

- Studied the spread of ISAV using a simulation model.
- Assessed the infectivity of SRS using a discrete-time survival model.
- Investigated tissue concentration of Emamectine benzoate during oral treatments.

PROFESSIONAL EXPERIENCE

Fresh Water Veterinarian. Invermar S.A., Puerto Montt, Chile. 2010 – 2013

- Established disease prevention policies and control strategies for three hatcheries and two lake sites.
- Supervised several rearing contracts.
- Produced over 10 million Atlantic salmon, coho salmon, and rainbow trout smolts per year.

Chief of Veterinary Services. Aquagestion S.A., Puerto Montt, Chile. 2009 – 2010

- Lead team of 5 veterinarians and over 10 field technicians offering diagnostic services in aquaculture.
- Supervised branch offices in Santiago, Temuco, Puerto Montt, Puerto Aysén, and Punta Arenas.
- Provided technical support for clients and participated in applied research projects.

Fresh Water Veterinarian. Cultivos Yadrán S.A., Quellón, Chile. 2007 – 2008.

- Coordinated and supervised activities such as vaccinations, sampling for official health control programs.
- Provided veterinary services for two hatcheries, one lake site, and several rearing contracts.

Health manager. Cía. Salmonífera Dalcáhué Ltda., Dalcáhué, Chile. 2006 – 2007

- Established health policies and supervised health management for five hatcheries and one lake site to comply with sanitary and environmental regulations.
- Provided rearing services for other companies producing over 15 million smolts and fry every year.

Fresh Water Veterinarian. Cultivos Marinos Chiloé Ltda., Ancud, Chile. 2003 – 2006

- Supervised fish health for four hatcheries and one lake site as well as a number of rearing contracts.
- Designed and established prevention and control plans for diseases in fresh water stage.
- Assisted the Fresh Water production manager in planning and control of production and expenses.
- Maintained traceability database for the quality assurance department.

Laboratory Technician and Technical Support. Biovac S.A., Puerto Aysén, Chile. 2000 – 2002

- Carried out laboratory assays such as ELISA, IFAT, RT-PCR, and culture of bacteria and virus.
- Provided veterinary services for fresh water and seawater farms in the Aysén Region.

TEACHING EXPERIENCE

Guest lecturer, Fish Health (VHM-413). *Spring 2016.*

Department of Health Management, University of Prince Edward Island.

Guest lecturer, Fish Health (VHM-413). *Spring 2014.*

Department of Health Management, University of Prince Edward Island.

PEER-REVIEWED PUBLICATIONS

Published

Price, D., Sánchez, J., Ibarra, R., St-Hilaire, S., 2019. **Variation in the concentration of antibiotics in tissue during oral antibiotic treatments in farmed salmonids.** *Aquaculture*. 498, 587-593.

St-Hilaire, S., Notfall, S., **Price, D.,** Boyce, B., Morrison, D. 2019. **Evaluating the concentration of emamectin benzoate in Atlantic salmon tissues after sea lice treatments.** *Prev. Vet. Med.* 498, 464-469.

Gautam, R., Gardner, I.A., Klotins, K., Revie, C., Vanderstichel, R., **Price, D.,** Beattie, M., Gustafson, L. 2018. **Risk-ranking of Atlantic salmon (*Salmo salar*) farms to minimize spread of infectious salmon anaemia virus (ISAv) among neighbouring marine sites in eastern Canada and the United States.** *Prev. Vet. Med.* 159, 92-98.

Price, D., Sánchez, J., McClure, J., McConkey, S., Ibarra, R., St-Hilaire, S., 2018. **Assessing concentration of antibiotics in tissue during oral treatments against piscirickettsiosis.** *Prev. Vet. Med.* 156, 16-21.

Price, D., Ibarra, R., Sánchez, J., St-Hilaire, S., 2017. **A retrospective assessment of the effect of fallowing on piscirickettsiosis in Chile.** *Aquaculture* 473, 400–406.

Price, D., Stryhn, H., Sánchez, J., Ibarra, R., Tello, A., St-Hilaire, S., 2016. **Retrospective analysis of antibiotic treatments against piscirickettsiosis in farmed Atlantic salmon *Salmo salar* in Chile.** *Dis. Aquat. Org.* 118, 227–35.

St-Hilaire, S., **Price, D.,** Taylor, S., Groman, D., 2015. **Treatment of diplomonad intestinal parasites with magnesium sulphate at a commercial rainbow trout (*Oncorhynchus mykiss*) facility.** *Can. Vet. J.* 56, 876–8.

AWARDS

Short-term placement, Copenhagen University (CAD \$4,580). Canada Excellence Research Chair in Aquatic Epidemiology, University of Prince Edward Island. 2018

Early career development grant (CAD \$2,215). Canada Excellence Research Chair in Aquatic Epidemiology, University of Prince Edward Island. 2015

PhD 3-year scholarship (CAD \$51,000 per year). Canada Excellence Research Chair in Aquatic Epidemiology, University of Prince Edward Island. 2014

PRESENTATIONS AND POSTERS

Concentration of antibiotics in tissue during in-feed oral treatments against piscirickettsiosis in farmed salmonids in Chile. ISVEE 15, Chang Mai, Thailand. 2018

A retrospective assessment of the effect of fallowing on piscirickettsiosis in Chile. ISAAH Meeting. Charlottetown, PE, Canada. 2018

Factores que predisponen a falla de un tratamiento con antibióticos y efecto de los descansos sanitarios sobre el riesgo de SRS. Taller de Epidemiología, Programa para la gestión sanitaria en acuicultura, Sernapesca. Valparaíso, Chile. 2017

Risk factors for treatment failure in antibiotic treatments against Piscirickettsiosis in farmed Atlantic salmon in Chile. Atlantic Canada Fish Farmers Association Annual Conference. St. Andrews, NB, Canada. 2016

Risk factors for treatment failure in antibiotic treatments against Piscirickettsiosis in farmed Atlantic salmon in Chile. AquaEpi I. Oslo, Norway. 2016

Effectiveness of antibiotic treatments against piscirickettsiosis in farmed Atlantic salmon (*Salmo salar*) in Chile. 24th Annual Graduate Studies and Research days, UPEI. Charlottetown, PE, Canada. 2016

Efectividad de tratamientos antimicrobianos contra piscirickettsiosis en salmón del atlántico (*Salmo salar* L.) en Chile. V Jornadas de Investigación en Salmonicultura. Puerto Varas, Chile. 2015

Antibiotic treatment of bacterial diseases in large salmon populations. Atlantic Canada Fish Farmers Association Annual Conference. St. Andrews, NB, Canada. 2014

PROFESSIONAL DEVELOPMENT

Epi on the Island summer courses (Centre for Veterinary Epidemiological Research, UPEI)

Multivariate Visualisation and Analysis. Revie, C., Stryhn, H., McEwan, G. 2018

Introduction to multilevel modelling. Dohoo, I., Stryhn, H., Sanchez, J. 2016

Survival analysis. Dohoo, I., Stryhn, H., Sanchez, J. 2015

Time series regression. Armstrong, B. and Stryhn, H. 2015

Bias in observational studies. Dohoo, I. and Stryhn, H. 2014

Bioinformatics for veterinary epidemiologists. Durr, P. and Halpin, K. 2014

Other workshops

Networking Skills. Johnstone, K., Mitacs. Charlottetown, PE, Canada. 2017

Statistical downscaling of global climate models: SDSM 5.1.1. Jien, J., UPEI Climate lab. Charlottetown, PE, Canada. 2014

CERTIFICATIONS

HACCP auditor. SERNAPESCA. Puerto Montt, Chile. *2010*

ISO-NCh 17025 Of. 2005 auditor. Instituto de Salud Pública. Puerto Montt, Chile. *2009*

SKILLS

Languages: Spanish (native), English (fluent).

Programming: R, Stata, Bash, L^AT_EX, Markdown.

Other Software: GIT, QGIS, AnyLogic, MLWin, MS-Office, FishTalk.

COMMUNITY SERVICE

Vice President, Home & School Board, Parkdale Elementary. Charlottetown, PE, Canada. *2017 – Present*

President, Veterinary student association. Universidad Austral de Chile, Valdivia, Chile. *1994 – 1995*