System Response to Toxicologic Emergencies Roy Purssell

		Inputs	Activities	Outputs	Outcomes		Anticipated Impact
					2016	2017 - 2018	Anticipated Impact
Situation: From 2004 to 2013 there were 3775 drug-poisoning related deaths in BC. The drug overdose death rate was 8.8 per 100,000/year population. Vision: To significantly reduce death and disability due to poisoning and drug overdose (OD) in BC through intervention in the ED and com- munity.		Member of BC Drug Overdose and Alert Partnership (DOAP). Contributing to BC DOAP Opioid Overdose Response Strategy Ongoing relationships: - Canadian Poison Control Centres Canadian Overdose of Acetaminophen Study Group (COAS)	CDC foundation grant application to examine opioid use Data on incidence of poisoning and drug OD's in BC	Evaluation of poisoning & drug OD in BC	ing of extent of poisoning and drug overdoses Number of EM trainees and EP's trained in advanced poisoning management Best practices on EM Network website and analyze reach Incu awa pra Creation of local surveillance system using BC Drug and Poison Information Centre calls	 ing of morbidity and mortality due to poisoning & drug overdose study (baseline data) Clear understand- ing of opioid use and mortality (baseline data) Clear understand- ing of opioid use and mortality (baseline data) Consis practic by em practic Increased awareness of best practices Ongoi survei nation contin evalua effecti public harm 	Reduction in morbidity and mortality from poisoning and drug overdoses through effective prevention management Consistent best practices applied by emergency practitioners
				Evaluation to determine if amount of opioids prescribed is assoc w/ risk of injection drug use and risk of death [Grant Obtained CIHR]			
				Poison and drug OD best practices published in 5th edition of Poison Management Manual			
			Data on incidence of opioid use and death due to opioid-related causes	Produce best practices in common poising for EM Network website			
	 Produce best practices for specific poisonings on EM Network website Create better prevention or treatment practices where necessary 			Genetic determinants of agranulocytosis associated with levamisole-adulterated			
			Data to determine economic burden of poisoning and drug OD in BC Literature review on best practices for poising prevention	cocaine study published Published recommendations to reduce risk of exposure, morbidity &mortality due to PMMA			Ongoing
				Develop toxicology curriculum for EM trainees			surveillance nationally to continuously evaluate effectiveness of public health, harm reduction and KT programs
Overall Goal: Reduce mortality and morbidity related to toxins in BC. Decreased variability				Review and publish analysis of Allergic (Ana- phylactoid) reactions to the antidote (Intrave- nous N-Acetylcysteine) during treatment of Acetaminophen Poisoning: Published 2018			
of practice.			Meet with stakeholders, obtain	Chapter in Prevention of Poison Injury, Canadian Injury Prevention Resource textbook		and Poison Information	
 BC Drug and Poison Information Centre BC CDC BC Injury Prevention and Research Unit UBC DEM Health Authorities Michael Smith Foundation for Health Research (MSFHR) 		approvals and funding for creation of national surveillance system for Poison Centre drug exposure calls Evaluate of optimal naloxone dosing in treatment of opioid & ultra-potent opioid OD	Published assessment of potential of Canadian Poison Control Centres for public health surveillance	Centre Data	Centre Data	economic burden on health care system	
			Clear understanding of economic burden of BC poisoning & drug OD (baseline data)				
			Naloxone Dosing in Opioid and Ultra-Po- tent Opioid OD's: A Systematic Review; CIHR Grant; report submitted to CIHR (PI– Dr. Moe)				
			Evaluation of associa- tion between prescrip- tion opioid use and intravenous drug use	MSFHR Funding for Emergency Department Opioid Overdose Study			