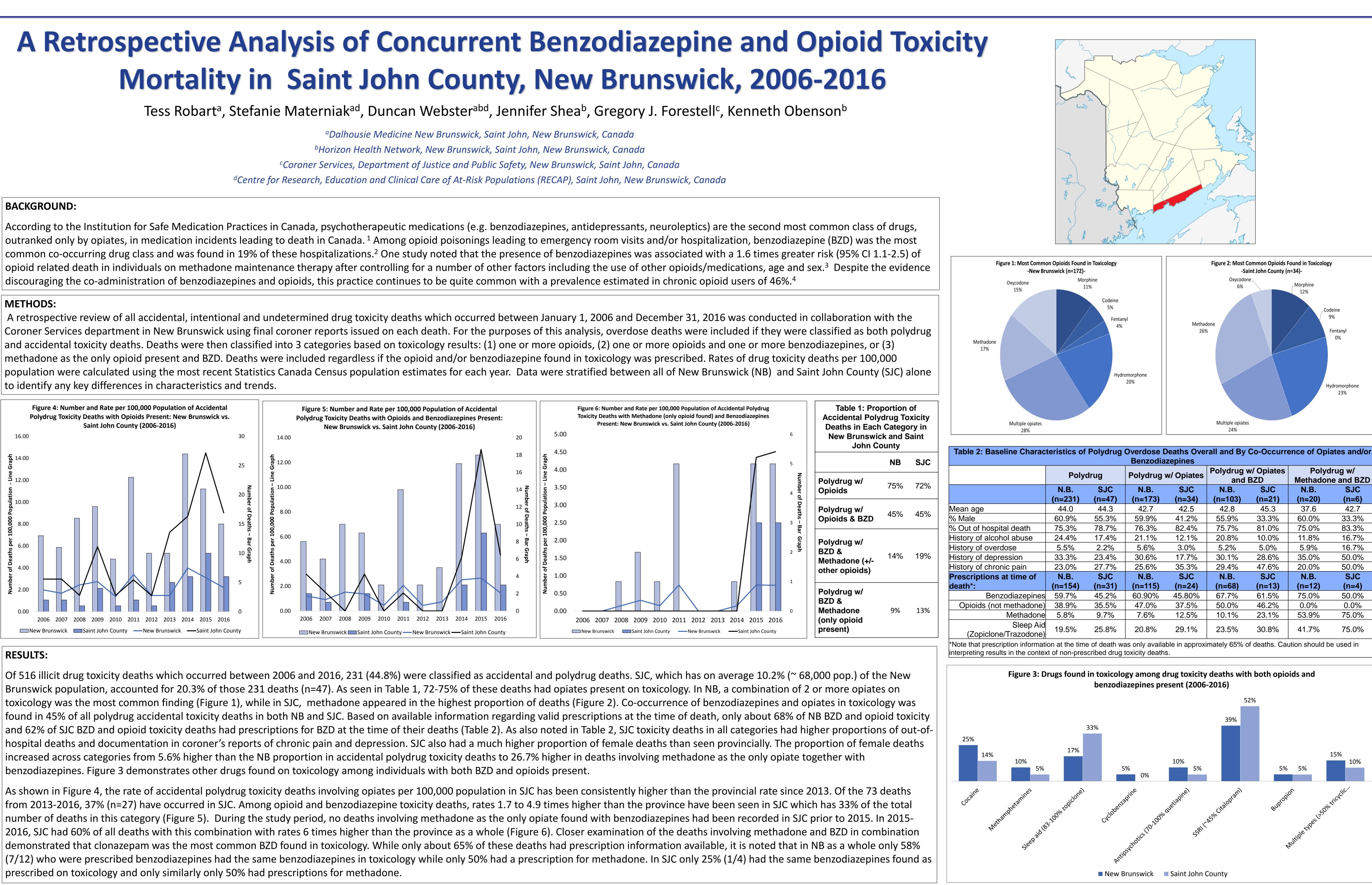
^aDalhousie Medicine New Brunswick, Saint John, New Brunswick, Canada ^bHorizon Health Network, New Brunswick, Saint John, New Brunswick, Canada ^cCoroner Services, Department of Justice and Public Safety, New Brunswick, Saint John, Canada



CONCLUSIONS:

These results show that, despite the well documented increased risk of serious adverse events and benzodiazepines are combined, their co-administration appears to be common both in New Brunswick and Saint John County. In 2016, the United States Food and Drug Administration required boxed warnings to be added to approximately 400 opioid or benzodiazepine products citing serious risks including respiratory depression, coma and death from their combined use.⁵ In this study, almost half of all accidental polydrug toxicity deaths which occurred had both benzodiazepines and opioids present. From the available information suggesting a need to further educate regarding the importance of avoiding their co-prescription bere seription and opioids present. unless absolutely necessary, particularly for those with addiction issues due to the sudden spike in opioid and benzodiazepine accidental drug toxicity deaths in Saint John County in 2015-2016 especially given that available prescription history indicates that half or more appear to have acquired the medications illicitly. High rates of diverted prescription drugs associated with abuse and fatal toxicity is a significant concern in Saint John County as well as throughout the province. Caution is warranted when prescribing opioids, including methadone, with benzodiazepines and clinicians should be prudent even when prescribing benzodiazepines and opioids in isolation.

References:

- Institute for Safe Medication Practices Canada. "Deaths Associated with Medication Incidents: Learning from Collaborative Work with Provincial Offices of the Chief Coroner and Chief Medical Examiner" ISMP Safety Bulletin (2013) Vol. 13 (8). Canadian Institute for Health Information. "Hospitalizations and Emergency Department Visits Due to Opioid Poisoning in Canada. https://secure.cihi.ca/free_products/Opioid%20Poisoning%20Report%20%20EN.pdf Accessed November 22, 2017. Leece, et. al. (2015) Predictors of Opioid-Related Death During Methadone Therapy. Journal of Substance Abuse Treatment 57: 30-35.
- Sun, et. al. (2017) Association between concurrent use of benzodiazepines and overdose: retrospective analysis. BMJ 2017;356:j760 | doi: 10.1136/bmj.j760. Food and Drug Administration. "FDA requires strong warnings for opioid analgesics, prescription opioid cough products, and benzodiazepine labeling related to serious risks and death from combined use." Press Release: August 31, 2016.







Benzodiazepines							
	Polydrug w/ Opiates		Polydrug w/ Opiates and BZD		Polydrug w/ Methadone and BZD		
С	N.B.	SJC	N.B.	SJC	N.B.	SJC	
47)	(n=173)	(n=34)	(n=103)	(n=21)	(n=20)	(n=6)	
.3	42.7	42.5	42.8	45.3	37.6	42.7	
3%	59.9%	41.2%	55.9%	33.3%	60.0%	33.3%	
7%	76.3%	82.4%	75.7%	81.0%	75.0%	83.3%	
1%	21.1%	12.1%	20.8%	10.0%	11.8%	16.7%	
%	5.6%	3.0%	5.2%	5.0%	5.9%	16.7%	
%	30.6%	17.7%	30.1%	28.6%	35.0%	50.0%	
7%	25.6%	35.3%	29.4%	47.6%	20.0%	50.0%	
С	N.B.	SJC	N.B.	SJC	N.B.	SJC	
31)	(n=115)	(n=24)	(n=68)	(n=13)	(n=12)	(n=4)	
2%	60.90%	45.80%	67.7%	61.5%	75.0%	50.0%	
5%	47.0%	37.5%	50.0%	46.2%	0.0%	0.0%	
%	7.6%	12.5%	10.1%	23.1%	53.9%	75.0%	
8%	20.8%	29.1%	23.5%	30.8%	41.7%	75.0%	
	the way only evollable in approximately 65% of deaths. Courties should be used in						

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