# Methadone (and pregnancy care) For Women With Problematic Substance Use

George D. Carson
MD FRCSC CSPQ FSOGC
Director of Maternal Fetal Medicine
Old. George Carron, 2016 Regina Qu'Appelle Health Region

## **OBJECTIVES**

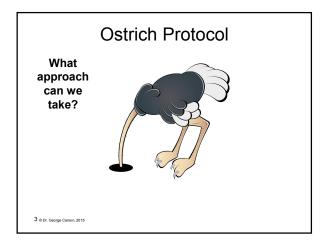
For substance using women on methadone who are pregnant:

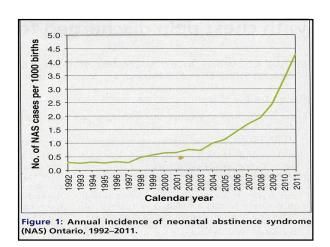
What changes during/because of pregnancy?

Use the opportunity

What are we doing about it?

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**Substance Use In Pregnancy** 

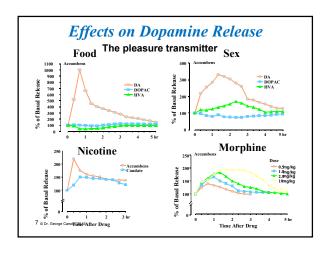
Few diseases can compete with addiction in their capacity to generate misinformation, misjudgment, or misunderstanding.

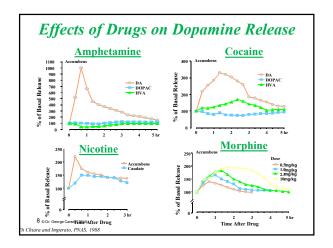
Lancet Editorial, 2012

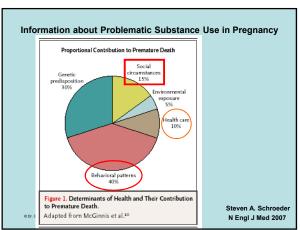
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# Why Be A User?

- · Life hurts
- Substances reduce pain/increase pleasure
- Rapid delivery to the brain (e.g. IV or inhaled) gives a more pleasurable effect
- Everyone else is using







# Because it hurts. What hurts??

Back head etc. etc.

Opioids prescribed – and continued--and dependency

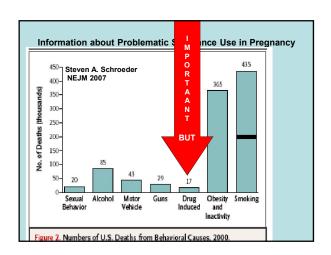
Deal with dependency. Deal with the pain if

Life

Opioids used, usually illicitly, usually with others

Deal with dependency and drug seeking.

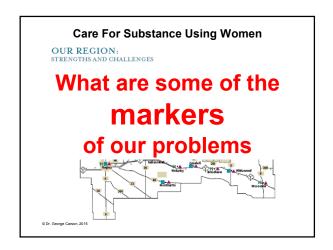
Learn coping, Have non-user support.

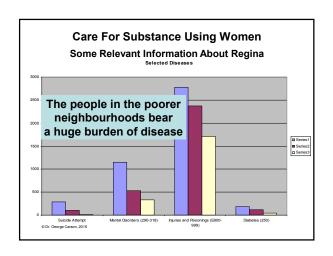


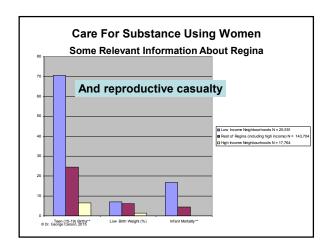
Some Relevant Information About Regina

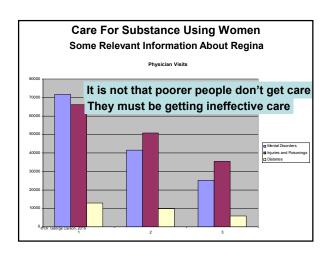
Population and Public Health Services: Health Status Report

The Report provides information on the health of the population in the Regina Qu'Appelle Health Region. This provides not only a "benchmark" about where the health of the population stands, but also serves as a basis for future health planning in terms of recognizing diverse needs associated with demographic structure, health status, health behaviours and prevention measures, and determinants of health.

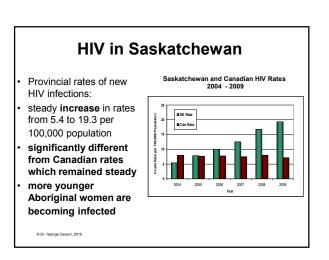


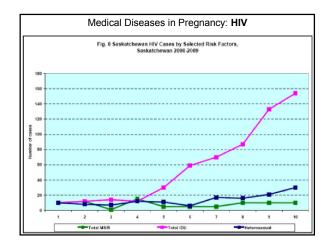




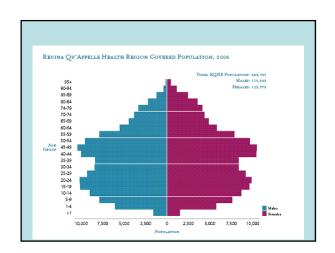


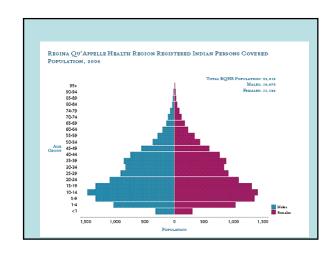
# Care For Substance Using Women In summary, our study shows that, despite the availability of essential health care services at no out-of-pocket expense. family income and other socioeconomic factors are strongly associated with some adverse perinatal outcomes, including gestational diabetes, small-forgestational-age live births and infant death. These findings highlight potential gaps in health information and in social support for socioeconomically vulnerable mothers and families in the year after birth. KS Joseph et al. CMAJ 2007;177(6):583-90





Risk Fact	ors and Aborig	inal Status	
Circumstance	Aboriginal	Non-aboriginal	
New HIV Infection Caused by IDU	53%	14%	
Female Affected	45%	20%	





ABORIGINAL HEALTH

This both is and is not an aboriginal health issue

Clearly substance use is not limited to First Nations people and

First Nations people are not necessarily substance users

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BUT
it is a poverty, disadvantaged issue and First Nations are disproportionately disadvantaged

And
there are particular factors of a post-colonial country, marginalization, cultural fragility, decreased sense of self-worth etc.

A Model of Care For Substance Using Women In Regina

# Some Things We Can Do

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# Care that is Harm Reducing and Women Centered

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## **Harm Reduction**

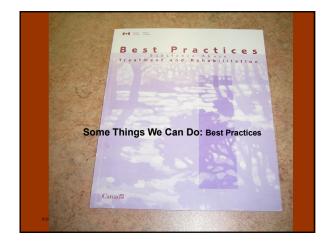
Expecting a woman to stop using drugs and/ or alcohol when she is not ready is unrealistic and can be harmful

Sarah Payne in With Child, 2007

© Dr. George Carson, 2015

Some Things We Can Do

# **Best Practices**



	Some Thing	Some Things We Can Do: Best Practices				
	INTERVENTION	Poor Effect	Indeterminate /Insufficient	Good Effect		
	Social skills			+18		
	Self-Control training			+17		
	Stress Management			+6		
	Accupuncture		+1			
	Psychotropic medication		2			
	Aversion therapy		2			
	Psychotherapy	4				
© Dr. Geo	Educational Lectures	5	Holder et al.			

# Some Things We Can Do A Philosophy Of Care

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Some Things We Can Do

<u>A Philosophy of Care for Problematic Substance</u> <u>Use in Pregnancy</u>

Our goal is to provide the best care reasonably possible, including harm reduction.

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### Some Things We Can Do: Methadone

Methadone maintenance therapy versus no opioid replacement therapy for opioid dependence (Review) Mattick RP, Breen C, Kimber J, Davoli M



This is a reprint of a Cochrane review, prepared and maintained by The Cochrane Collaboration and published in The Cochrane Library 2007, Issue 3

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# A Model of Care For Substance Using Women In Regina Some Things We Can Do: Methadone Analysis 01.01. Comparison 01 Methadone maintenance treatment vs no methadone maintenance treatment. Outcome 01 Retention in treatment Review. Methadore maintenance truterest vo cipidal replacement therepy for cipidal dependence Conqualer. Of Methadore maintenance truterest vo nor methadore maintenance treatment Stady Methadore maintenance truterest vo nor methadore maintenance treatment Stady Methadore MT Coretina Relative Risk (Bandore) Weight Relative Risk (Bandore) Norman 1979 3890 550 958 C 958

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A Model of Care For Substance Using Women In Regina

The Cochrane Library 2007, Issue 3

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**Maternal and Fetal Benefits of Methadone Treatment** 

Reduces illegal opiate use as well as the use of other drugs, thus diminishing the risk of hepatitis, HIV/AIDS, and other sexually transmitted diseases

Helps to remove the opiate-dependent woman from the drug-seeking environment

May eliminate illegal behaviors, such as prostitution

Prevents fluctuation of the maternal drug level over the course of the day

Reduces maternal mortality and severe morbidity

Permits a more stable intrauterine environment for the fetus, with a decreased the risk of hypoxia  $% \left\{ 1\right\} =\left\{ 1\right\}$ 

Leads to improvement in the mother's nutrition and infant birth weight

Maternal and Fetal Benefits of Methadone Treatment

Improves the woman's ability to participate in prenatal care and substance abuse treatment

Enhances the woman's ability to prepare for the birth of her infant and begin homemaking.

Stabilized mothers on methadone are more likely to retain custody of their children.

Children are more closely monitored when the mother is part of a rehabilitation program

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# Some Things We Can Do

# **Antepartum Care**

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Use the opportunity

Infections

Anemia

Dental

Life skills/ prepare for parenting

Establish dating LMP "sometime"

Cycle irregular

Follow fetal growth

Use ultrasound images to "make it real"

Be the methadone prescriber Enhance compliance

∘ Make getting care easier

A Model of Care For Substance Using Women In Regina Some Things We Can Do: Methadone THE METHADONE- MAINTAINED PREGNANCY

**Problematic Substance Use in Pregnancy** 

- Medical detoxification
- ·Leave untreated
- Methadone programs

Pregnancy is an opportunity to bring women into obstetrical, medical and drug treatment

Stephen R. Kandall, Tatiana M. Doberczak, Maria Jantunen, Janet Stein Clinics in Perinatology

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Beyond the Epidemic November 2007 George D. Carson

Explain about methadone changes
The clearance increases
She is not more addicted, she is more
pregnant
Involve the partner
Use split dosing



Clinical Study

Evaluation of a Low-Threshold/High-Tolerance Methadone Maintenance Treatment Clinic in Saint John, New Brunswick, Canada: One Year Retention Rate and Illicit Drug Use

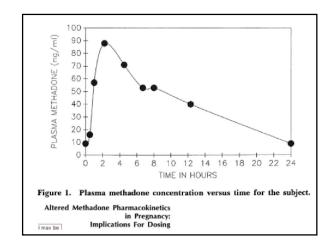
Timothy K. S. Christie, 1,2 Alli Murugesan, 1,3 Dana Manzer, 4 Timothy K. S. Christie," All Murugesan, Michael V. O'Shaughnessey,<sup>5</sup> and Duncan Webster<sup>6</sup> Journal of Addiction

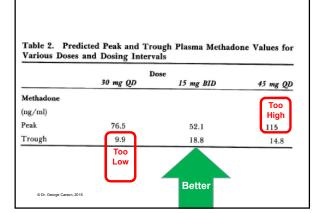
### 95% retention 67% abstinent from illicit opioids

Of 70 addition It leaves 95%, 67% of the cohort achieved abstracte from Illicat opioids

If no one-year retextion rate was 95%, 67% of the cohort achieved abstracte from litter opioids and an additional 13% abstrained
from cocaine use. Conduston. The novel feature of the LITH JMMT distinct is that patients are not dealed and additional lack of an oliarly services. That though comprehensive MMT programs inwest the majority of financial resources in ancillary services
that support the biopsychosocial model, whereas the LITHT approach utilizes a medical model and directs resources at medical
management.

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Manage the pregnancy issues Indomethacin for pain Nausea with and without the methadone Constipation

Partner issues and safety

Anticipate social services/custody I would hate to be a social worker Will the child be safe? How did she do as a pregnant woman

Contraception planning · Give the prescription

## **Ultrasound Scans**

Dating Will often be unsure

**Anatomy** 

Motivational - with feed back and pictures

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Screen for MRSA

If enough negatives then avoid isolation

Prenatal classes Select carefully

Prepare for coming to the hospital

# Some Things We Can Do

# Care in Labour

**PPO** for methadone Any one can continue it

Lots of non-judgmental support

Epidural analgesia

Point of care HIV testingPPO for methadone

Some Things We Can Do: Pain Relief in Labour

Intrapartum and Postpartum Analgesia for Women Maintained on Methadone During **Pregnancy** 

OBJECTIVE: To determine whether methadone maintenance alters intrapartum or postpartum pain or medication requirements.

Labor and delivery is a painful process. The treatment of acute pain during hospitalization has emerged as an important health care concern among both providers and patients.

Marjorie Meyer, MD, Katherine Wagner, MD, Anna Benvenuto, Dawn Plante, RN, and Diantha Howard, MS

VOL. 110, NO. 2, PART 1, AUGUST 2007 OBSTETRICS & GYNECOLOGY

A Model of Care For Substance Using Women In Regina Some Things We Can Do: Pain Relief in Labour

**Labour Hurts For Everyone** 

An Epidural Regional Anesthetic **Works For Almost Everyone** 

An Epidural Does Not Use Systemic Narcotics so patients and staff feel better about that

Beyond the Epidemic November 2007 George D. Carson

A Model of Care For Substance Using Women In Regina Some Things We Can Do: Pain Relief in Labour

### CONCLUSION:

Methadone-maintained women have similar analgesic needs and response during labor, but require 70% more opiate analgesic after cesarean delivery.

Meyer et al Analgesia for Methadone-Maintained Pregnancy
OBSTETRICS & GYNECOLOGY 2007

Beyond the Epidemic November 2007 George D. Carson

# **Some Things** We Can Do

**Care After Delivery** 

## **Caring After Delivery**

It is a long-term commitment

Safe care and custody

Babies are: delightful

scary

stress causing

It takes a team

It takes preplanning

It takes changing the plans

Dr. George Carson 2016

A Model of Care For Substance Using Women Some Things We Can Do: Care After Delivery

Rooming-in compared with standard care for newborns of mothers using methadone or heroin

PARTICIPANTS We selected 32 women in the city of Vancouver known to have used heroin or methadone during pregnancy between October 2001 and December 2002. Comparison groups were a historical cohort of 38 women in Vancouver and a concurrent cohort of 36 women cared for in a neighbouring community hospital.

MAIN OUTCOME MEASURES Need for treatment with morphine, number of days of treatment with morphine, and whether babies were discharged in the custody of their mothers.

Ronald R. Abrahams, MD FCFPC, S. Ann Kelly, MPH, Sarah Payne, RN MA, Paul N. Thiessen, MD FRCPC, Jessica Mackintosh, Patricia A. Janssen, RDan Fam Physician 2007; 53:1722 - 1730

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# A Model of Care For Substance Using Women Some Things We Can Do: Care After Delivery Table 4 Infant outcomes by study cohort and adjusted relative risks OUTCOMES BCWH ROOMING IN ROOMING IN ROOMING IN ROOMORIS IN RELATIVE RISK ROOMORIS IN RELATIVE RISK ROOMORIS IN ROOMORI

# **Caring After Delivery**

Detox

Addiction counselling

Tapering methadone

**Treat Hepatitis C** 

Immunize for Hepatitis A and B

Continue HIV medication

Contraception

Depo Pro Vera

Long acting forgettable

# Provide Care that is Harm Reducing

and Women Centered

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"The secret of caring for the patient"

Sir William Osler