



association of family
health teams of ontario



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AP Team Purpose

Improve access to clinical data through the development of standard queries for multiple EMRs so that teams across the province can collect data on chronic conditions and medications.

Query Development

Query	Telus PS Suite	QHR Accuro	OSCAR
Diabetes	Available	Available	Available
COPD	Available	Available	Available
CHF	Available	Available	Available
Depression	Available	Available	Available
Hypertension	In Development	In Development	In Development
Opioid Use	Available	Available	Available
Opioid + Benzo	Available	Available	Available
High MEQ	Vendor Requirements	Vendor Requirements	Available

Partners in development

The following were consulted in the development of the Opioid query:

- Dr Peter Selby – CAMH
- Tara Lonergan - eHealth Centre of Excellence
- Centre for Effective Practice
- Dr. Dale Gunter – McMaster FHT
- Dr Ruth Morris and Dr Anthony Gagnon – Hamilton FHT
- Kirk Miller – Guelph FHT
- Dr. Kevin Samson – East Wellington FHT
- John A. Queenan and Karim Keshavjee – CPCSSN
- Marjan Moeinedin – North York FHT
- Margaret Cousins – Marathon FHT
- Gail Dobell , Dr. David Kaplan and Maria Krahn – HQO
- Matthew Ouellette – Windsor FHT
- Sam Davie – ST Michael’s Hospital

Access to *immediate* local data

- Query is a *complimentary* tool to the HQO MyPracticeReport
- MPR not patient specific, time lag
- MPR provides snapshot, AP query drills down
- Local, private, immediate data in the hands of the practice team helps teams feel more comfortable about looking at opioid prescribing practices

***Front-end* queries, *multiple* EMRs**

- Queries designed for use by individual practice teams and/or large-scale programs (Enables physicians to review their own patients in their own practice)
- Queries are developed using the front-end tools available within the native EMR settings
- No additional software or programming required
- Development plan for Telus PS, Accuro, OSCAR

Why these EMRs?

- Three EMRs are used by approximately 85% of all physicians on a EMR

OntarioMD-Certified EMR Vendor	Physicians Live on a Certified EMR			
	FP*	SP**	Unknown	Total
ABELSoft Corporation	194	262	15	471
Alpha Healthcare Inc.	48	16		64
Canada Health Systems Inc.	305	106	16	427
Indivica Inc.	396	83	2	481
OSCAR EMR	1,227	661	10	1,898
P&P Data Systems Inc.	463	85	4	552
QHR Technologies Inc.	1,708	1,602	145	3,455
TELUS	5,359	1,220	85	6,664
YES Medical Systems	9	36	6	51
York-Med Systems Inc.	34	62	1	97
Total	9,743	4,133	284	14,160²

Source: OntarioMD October 2017 LHIN Report



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Opioid query (Telus PS)

Search Name: AP Opioid Query

Patient Status = Active

and

Rx/Meds/Treatments, current contains Buprenorphine

and

Rx Any Action; Name Contains... "Buprenorphine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Butorphanol

and

Rx Any Action; Name Contains... "Butorphanol", days since latest <= 365

or

Rx/Meds/Treatments, current contains Codeine

and

Rx Any Action; Name Contains... "Codeine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Dihydrocodeine

and

Rx Any Action; Name Contains... "Dihydrocodeine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Fentanyl

and

Rx Any Action; Name Contains... "Fentanyl", days since latest <= 365

or

Rx/Meds/Treatments, current contains Hydrocodone

and

Rx Any Action; Name Contains... "Hydrocodone", days since latest <= 365

or

Rx/Meds/Treatments, current contains Hydromorphone

and

Rx Any Action; Name Contains... "Hydromorphone", days since latest <= 365

or

Rx/Meds/Treatments, current contains Meperidine

and

Rx Any Action; Name Contains... "Meperidine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Methadone

and

Rx Any Action; Name Contains... "Methadone", days since latest <= 365

or

Rx/Meds/Treatments, current contains Morphine

and

Rx Any Action; Name Contains... "Morphine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Nalbuphine

and

Rx Any Action; Name Contains... "Nalbuphine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Oxycodone

and

Rx Any Action; Name Contains... "Oxycodone", days since latest <= 365

or

Rx/Meds/Treatments, current contains Oxymorphone

and

Rx Any Action; Name Contains... "Oxymorphone", days since latest <= 365

or

or

Rx/Meds/Treatments, current contains Pentazocine

and

Rx Any Action; Name Contains... "Pentazocine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Pethidine

and

Rx Any Action; Name Contains... "Pethidine", days since latest <= 365

or

Rx/Meds/Treatments, current contains Tapentadol

and

Rx Any Action; Name Contains... "Tapentadol", days since latest <= 365

or

Rx/Meds/Treatments, current contains Tramadol

and

Rx Any Action; Name Contains... "Tramadol", days since latest <= 365

Opioid query *output*

Sample of output from Telus PS

Patient #	First Name	Surname	Patient's MD	Family MD	Member Status	Privacy	Active Treatments
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Cialis 20 mg Tablet 1 Tablet(s) Other, PRN for 30 Day(s) aerochamber-
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Terminated		physiotherapy- for hamstring strengthening- right knee pain -due to PF
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Macrobid 100mg bid take for 7 days Nuvaring Vaginal Ring 1 Device OI
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		ASA 81 mg Tablet Ec 1 Tablet(s) Once daily for 100 Day(s) right lateral
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Novo-Cetirizine 20 mg Tablet 1 Tablet(s) Once daily for 100 Day(s) phy
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Milk of Magnesia 80Mg/ml 5 mL Once daily, PRN take 15 cc prn Loraze
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		physiotherapy for right shoulder --supraspinatus tendonitis Crestor 1
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Terminated		clobetasol propionate 0.05% ointment(gm) topical 1 Application(s) Oth
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Terminated		Epipen 0.3 mg Auto-Injector 1 Syringe(s) Other, PRN for 1 Year(s) Cycl
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Colace 100 mg capsule 1 Tablet(s) Two times daily for 30 Day(s) Ferro
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Lamisil 1% Cream 1 Application(s) Two times daily for 30 Day(s) Betac
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Oracort 0.1% Dental Paste 1 Application(s) Three times daily, PRN Prc
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		PMS-Domperidone 10mg tid Beconase Aq 2 Puffs Two times daily for
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Tylenol W/codeine No. 2 Tablet 1 Tablet(s) Two times daily, PRN for 30
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		thalidomide capsule (hard, soft, etc.) 1 Tablet(s) Once daily for 100 Day
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		chest xray for follow up of pneumonia Tiamol 0.05% Cream 1 Applica
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		physiotherapy-for c-spine nerve impingement blood glucose monitc
<redacted>	<redacted>	<redacted>	<redacted>	<redacted>	FHO Enrolled		Mirena Intrauterine Sytem on it since 2009 elocom scalp application i

Buprenorphine ...	Butorphanol ...	Codeine date ...	Dihydrocodei...	Fentanyl dat...	Hydrocodon...	Hydromorph...	Meperidine ...	Methadone d...	Morphine da...	Nalbuphine d...	Oxycodone d...	Oxymorphon...	Pentazocine d...	Pethidine dat...	Tapentadol ...	Tramadol da...
		May 17, 2008				Jan 11, 2018 Jan 17, 2018 Feb 7, 2018			Feb 7, 2018		Jan 8, 2018					Nov 10, 2017

ALGORITHM PROJECT - Morphine Equivalents Calculator

version 0.3

Import Data

Print Report

Clear Data

PRACTICE SUMMARY

Reported Generated on: 2018-05-28

639 Total number of patients on Opioids

AGE RISK

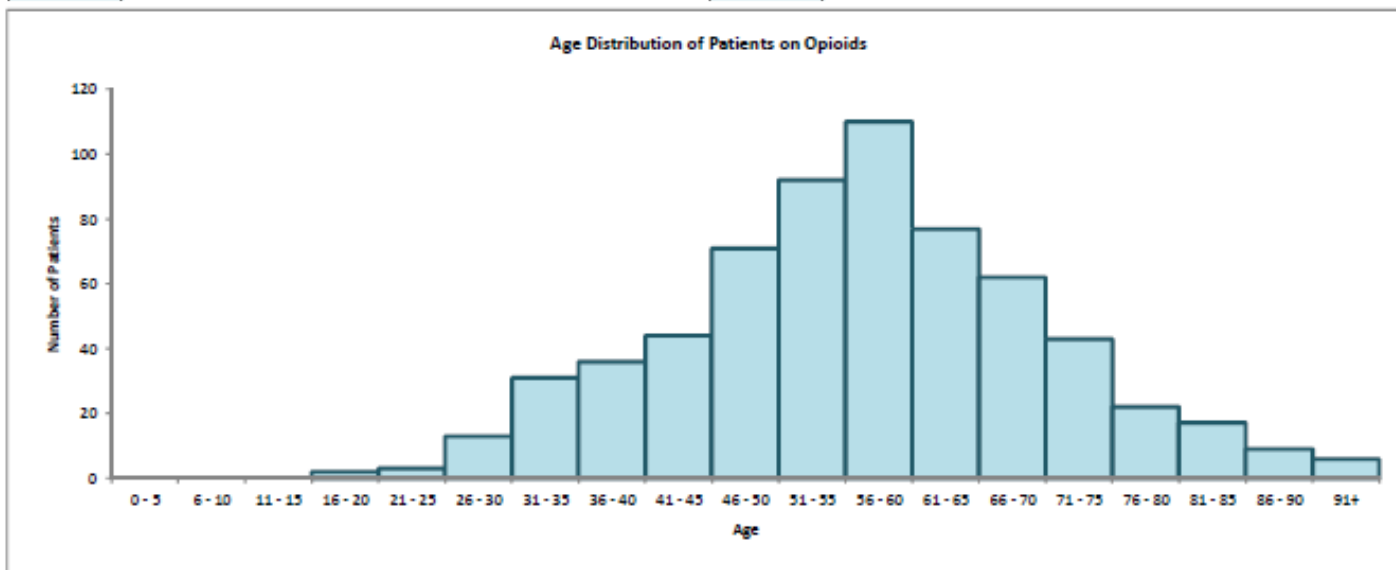
0 Opioid patients < 18 years old (0%)

173 Opioid patients ≥ 65 years old (27.1%)

SEX BREAKDOWN

338 Female Opioid patients (52.9%)

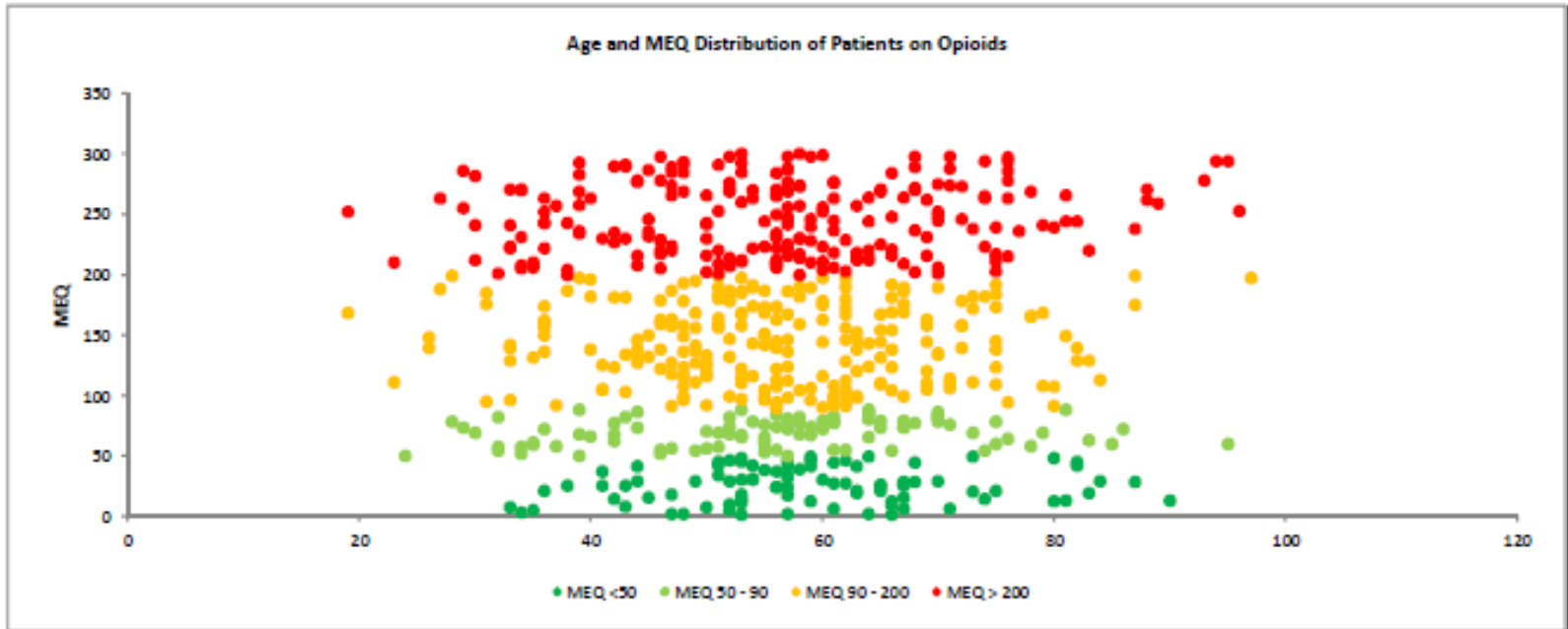
301 Male Opioid patients (47.1%)



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MORPHINE EQUIVALENTS RISK STRATIFICATION

90	MEQ < 50 (low risk) (14.1%)	232	MEQ 90 - 200 (high risk) (36.3%)
92	MEQ 50 - 90 (moderate risk) (14.4%)	223	MEQ > 200 (extremely high risk) (34.9%)



Opioid query *spread*

- Query released to AFHTO members in November 2017
 - Opioid/Benzo query released in December 2017
 - Opioid MEQ for OSCAR released December 2017
- Query shared with Ontario MD Practice Enhancement Consultants who provide support to primary care practices
- HQO references query in November PCPR and Partnered Supports for Helping Patients Manage Pain
- Query shared with OCFP
- Query shared with Centre for Effective Practice (CEP) to be used in two CEP projects
- We have receive 42 requests for the query to date– 9 of those related to the release of the Physician PCPR on November 30, 2017

Opioid query *spread* - *continued*

- Successfully lobbied Accuro to make an enhancement to their EMR to allow for the calculation morphine equivalents (MEQ)
- OntarioMD is using the OSCAR MEQ query as the basis for developing an OSCAR dashboard for Opioids
- Queries are being referenced by CAMH and used by teams to established a baseline as part of their MOHLTC funded Opioid DE implementation Project
- Queries shared with HQO QIP Specialist as a potential support resource for teams completing 2018 QIP

Obtaining the Queries

- Telus Queries
 - contact AFHTO
 - visit Telus Community Portal
- Accuro
 - alert publisher within EMR
- OSCAR
 - contact AFHTO

Email:

improve@afhto.ca

Thanks to our Partners in Development



EMERALD

