

Get Ahead of the Game for 2016

Key Patient and Treatment Insights from Real World Evidence - EMR

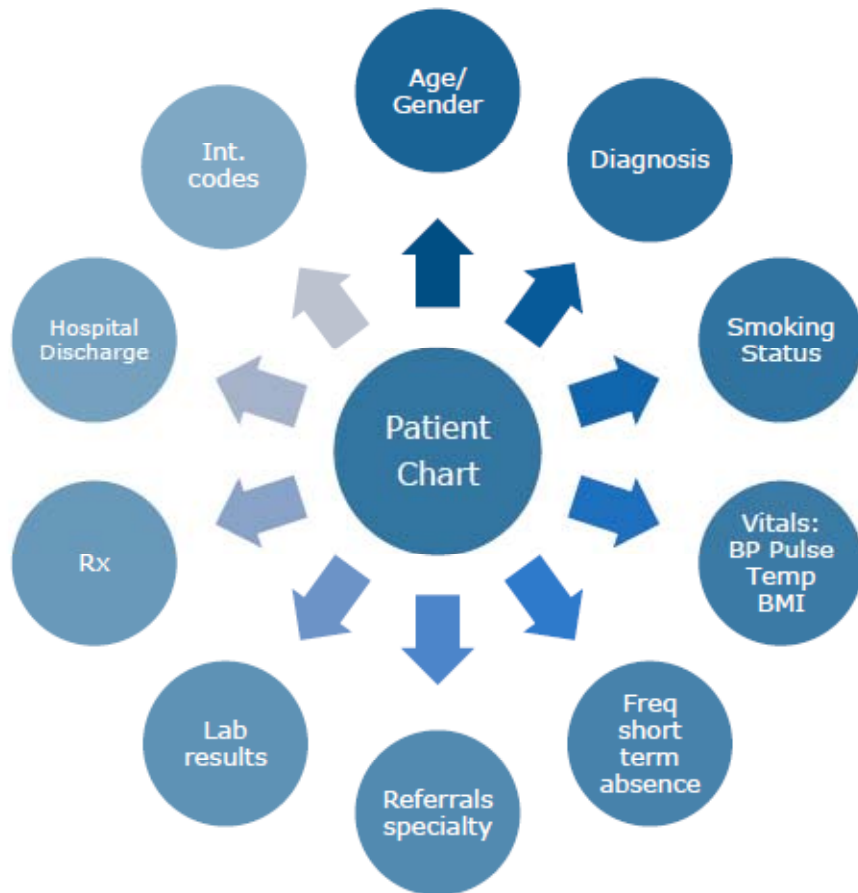
IMS Health Access and Outcomes Group

November 2015



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Running out of time to conduct a cost-effective chart audit for your brand before year-end? **IMS Evidence 360** could be the solution you're looking for.

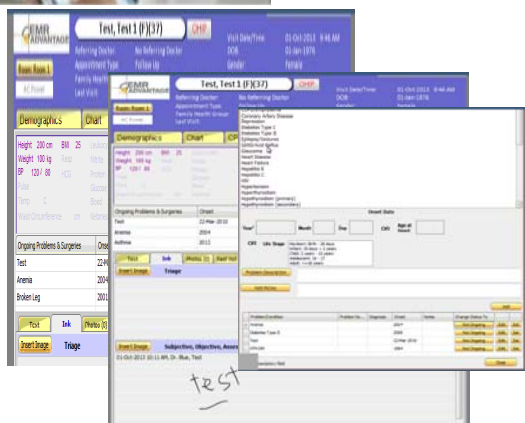


REAL-WORLD EVIDENCE (RWE)

Real-World Evidence as a capability—data, tools, processes, organization—underpinning several functions to drive business intelligence

Electronic chart audits with over 1 million Canadians

De-Identified EMR data



	IMS E360
Data source	<ul style="list-style-type: none"> • GPFM and Specialist EMRs
Geography	<ul style="list-style-type: none"> • Predominantly Ontario
Coverage	<ul style="list-style-type: none"> • 1 million patient lives
Strengths	<ul style="list-style-type: none"> • <i>Diagnosis</i> • <i>PFT/BP/BMI etc</i> • <i>Hospitalization and discharge</i> • <i>Integrated Lab results</i> • <i>DIN/ATC/Posology</i> • <i>Billing codes</i> • <i>Sick notes</i> • <i>Longitudinal</i>

Specialty	Sub Specialty	# of Doctors
Cardiology		2
Community Medicine		2
Dermatology		12
Emergency Medicine		2
Endocrinology & Metabolism		2
Family Medicine/General Practice		320
Gastroenterology		6
General Surgery		14
Internal Medicine	Diabetes >50%	40
Neurology		2
Obstetrics & Gynaecology		22
Ophthalmology		2
Orthopaedic Surgery		6
Otolaryngology-ENT		2
Paediatrics		16
Physiotherapy Facility (Office and Home Treatment)		2
Plastic Surgery		2
Psychiatry		10
Rheumatology		8

Data is already in-house and is available immediately. Results can be produced as PowerPoint charts or Excel files

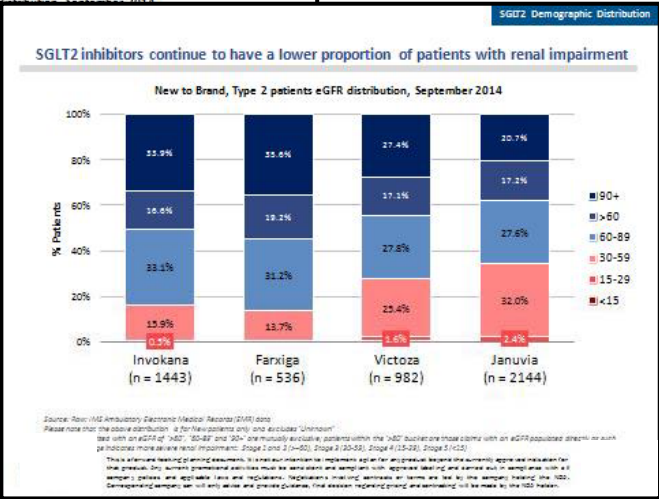
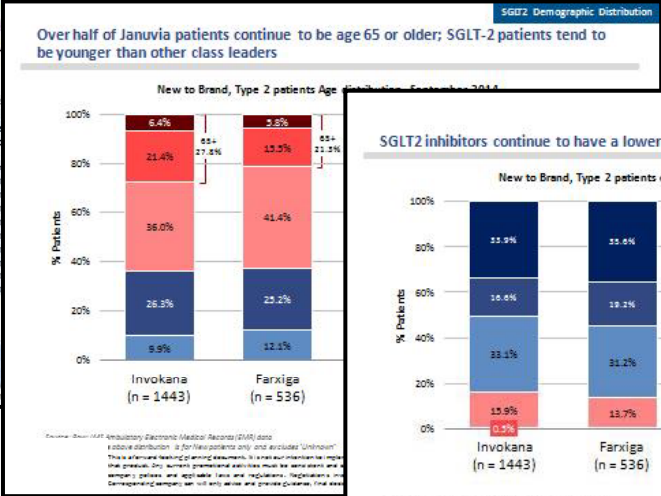
Chart Audits

Data Source: Canadian Electronic Medical Records
Metrics to Track: Patient Demographics, Lab Test Results, Comorbidities, Treatment and Healthcare utilization

Patient Characteristics

Invokana patients tend to be younger, with a slight preference for males and with good renal function and with hypertension. Tradjenta has a slight preference for older patients vs. Invokana.

Patient Age	JANUVIA	TRADJENTA	INVOKANA	Patient
18-19	0%	0%	0%	MALE
20-29	2%	2%	0%	FEMALE
30-39	25%	24%	28%	UNSPEC
40-49	12%	13%	23%	Diagn
50-54	27%	26%	22%	25000
55-59	33%	35%	29%	25000
60-64	5%	5%	0%	25000
UNSPECIFIED Pat. Age	5%	4%	2%	25000
CRD Stage	JANUVIA	TRADJENTA	INVOKANA	
NO CKD	71%	61%	78%	25000
MILD RENAL	7%	8%	12%	27750
MODERATE RENAL	17%	20%	9%	27600
SEVERE RENAL/END STAGE RENAL DISEASE (ESRD)	3%	5%	1%	40100
UNSPECIFIED RENAL	2%	3%	1%	



Medication, diagnosis, lab results and health care utilization are all available for immediate delivery

Medication Treatment	Variable
Drug Name	Brand name or generic brand name
Molecular name	Active molecule name
DIN	Health Canada DIN
ATC	Name and Number ATC3 and ATC4 WHO version
Drug class	DPP4, SGLT2 etc
Posology (TID, OD, BD, BID etc)	Number and % of hospitalizations
Average Daily Dose	Number and % of telemedicine consults
Reason for stopping treatment	6 variables available

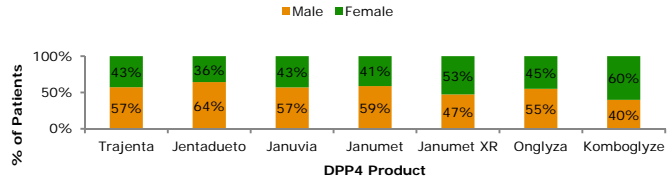
Utilization	Variable
GP Visits	Number and % of visits
Specialist Visits	Number and % of visits
Referrals	Number and % of visit
Sick Notes	Number and % of sick notes
Hospital Discharge Notes*	Number and % of hospitalizations
Telemedicine	Number and % of telemedicine consults

Category	Sub Category	Variable
Patient Demographics	BMI	• Normal(<25), Overweight (25-30), Obese Class 1 (30-35), Obese Class 2 (35-40), Obese Class 3 (40+), Unknown
	Age	• 0-17, 18-34, 35-50, 50-64, 65-75, 75+
	Gender	• Male, Female
Lab Test Results	HbA1c	• Normal (<6.0), Pre-Diabetes (6.1-6.4), Diabetes 1 (6.5-7.4), Diabetes 2 (7.5-10), Diabetes 3 (10+), Unknown
	eGFR	• End-Stage (<15), Severe (15-29), Moderate (30-59), Mild (60-89), Normal (90+), Unknown
	Blood Pressure	• Normal (systolic < 140; diastolic < 90), High BP Stage 1 (systolic 140 - 159; diastolic 90 - 99), High BP Stage 2+ (systolic 160+; diastolic 100+), Unknown • NOTE: If a patient doesn't meet both criteria they are defaulted into the higher group
Diagnosis	Hypertension	• Hypertensive Disease - Essential, benign hypertension • Hypertensive Disease - Hypertensive renal disease • Hypertensive Disease - Hypertensive heart disease
	Other	• Dyslipidemia, Hypercholesterolemia, Urinary-tract infections
	Cardiovascular (CVD)	• Heart Failure, Congestive • Ischaemic Heart Disease, Acute • Ischaemic and Other Forms of Heart Disease - Old myocardial infarction, chronic coronary artery disease of arteriosclerotic heart disease, without symptoms • Ischaemic and Other Forms of Heart Disease - Acute myocardial infarction

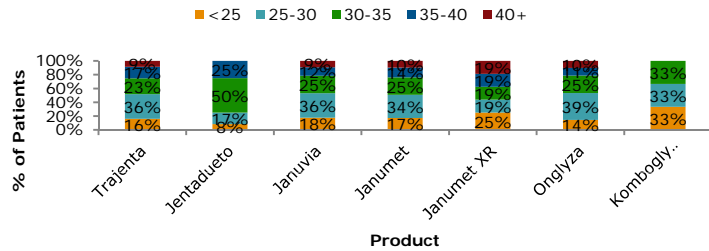
Deliverables in PowerPoint or Excel

Illustrative

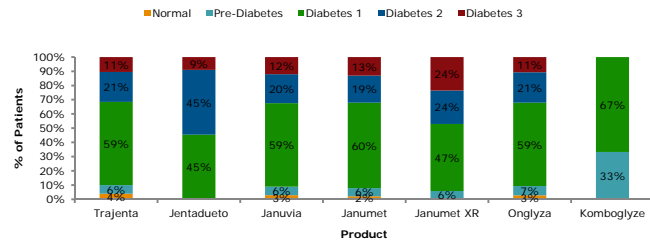
Gender by Product



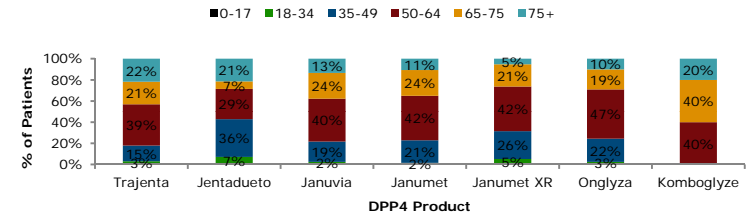
Average BMI Classification by Product



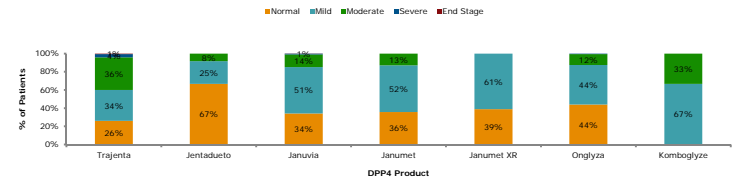
Average HbA1c Classification by Product



Age by Product



Average eGFR Classification by Product



Immediately available Electronic Medical Record Chart Audits

- Robust data from 2006
- Pick your charts from over 1 million Canadians
- Delivered to you in 2015
- Excel or PowerPoint
- Data from GPs and office-based specialists

Contact your local account representative