DIVINGEOR

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MEDICALPEARLS

therapeuticseducation.org medicationmythbusters.com

TO GET A HANDOUT GO HERE http://therapeuticseducation.org/handouts



Entire salary comes through the UBC Faculty of Pharmaceutical Sciences - also some legal/educational work

✓ I have received no honorarium or research money from the drug industry in the last 25 or so years





Premium podcast subscription Best Science (BS) Medicine podcast - therapeuticseducation.org

Guidelines would be awesome if they...

Were developed primarily by, and definitely for, the people that ultimately end up using them

Were a credible synopsis of the best available evidence presented in a way that clinicians could easily access and interpret

Allowed patient values and preferences to be taken into account

Wrong guidelines: why and how often they occur

Primiano Iannone,¹ Nicola Montano,² Monica Minardi,³ James Doyle,³ Paolo Cavagnaro,⁴ Antonino Cartabellotta⁵

"Unfortunately, depending on how their reliability is measured, up to 50% of guidelines can be considered untrustworthy. This carries serious consequences for patients' safety, resource use and health economics burden."

Clinical Practice Guidelines

Simplified lipid guidelines

Prevention and management of cardiovascular disease in primary care

G. Michael Allan MD CCFP Adrienne J. Lindblad ACPR PharmD Ann Comeau MN NP CCN(C) John Coppola MD CCFP Brianne Hudson MD CCFP Marco Mannarino MD CCFP Cindy McMinis Raj Padwal MD MSc Christine Schelstraete Kelly Zarnke MD MSc FRCPC Scott Garrison MD PhD CCFP Candra Cotton Christina Korownyk MD CCFP James McCormack PharmD Sharon Nickel Michael R. Kolber MD CCFP MSc

Can Fam Phy 2015;61:857-67

CLINICAL PRACTICE GUIDELINES

Simplified guideline for prescribing medical cannabinoids in primary care

G. Michael Allan MD CCFP Jamil Ramji Danielle Perry Joey Ton PharmD Nathan P. Beahm PharmD Nicole Crisp RN MN NP-Adult Beverly Dockrill RN Ruth E. Dubin MD PhD FCFP DCAPM Ted Findlay DO CCFP FCFP Jessica Kirkwood MD CCFP Michael Fleming MD CCFP FCFP Ken Makus MD FRCPC Xiaofu Zhu MD FRCPC Christina Korownyk MD CCFP Michael R. Kolber MD CCFP MSc James McCormack PharmD Sharon Nickel Guillermina Noël MDes PhD Adrienne J. Lindblad ACPR PharmD

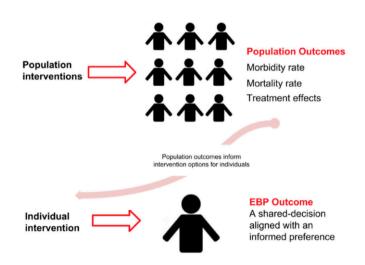
Can Fam Phy 2018;64:111-120



Shared decision is the only outcome that matters when it comes to evaluating evidence-based practice

James McCormack, Glyn Elwyn²

"in the vast majority of circumstances, the only outcome of relevance for EBP is to measure whether a shared decision was made"



doi:10.1136/bmjebm-2018-110922



MEDICATIONS

They can only really do 5 things - and only 2 of these are good

Help with symptoms

Reduce risk of future health issues

Cause side effects

Cost money

Be inconvenient

Have A Purpose

You are looking for numbers (%s)



In general who is it for - young/older, primary/secondary

TIME FRAME - 1 dose, 1 day, 1 week, 1 month, 1 year, 1 decade?

Is it for symptoms?

Clinically relevant endpoints

Is it for prevention?

CVD, fractures, exacerbations, infections

- anything as long as it isn't a surrogate marker (BP, cholesterol, glucose, FEV1, bone density)







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At	Alt America	Adam America	**	
Superior Crater	September October	Squarter Asolar	Superior Books	Seasonine Monday
-		-	-	November December

Here is how I look if time is limited

(which it almost always is)



If no meta-analysis/systematic review - suggests not a lot of published studies

Progress in evidence-based medicine: a quarter century on

Benjamin Djulbegovic, Gordon H Guyatt

"Few clinicians would ever have the skill - or time - to conduct sophisticated assessment of the evidentiary basis for their practice"

Now - "directing clinicians to processed sources of evidence, and aiding decision making by advancing the science of trustworthy clinical practice guidelines that would be available to clinicians at the point of care delivery"

Lancet 2017;390:415-23

Key steps to communicating evidence

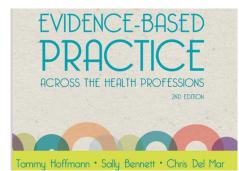
Understand the patient's (and family members') experiences and expectations.

Build partnerships.

Discuss the evidence, including a balanced discussion about uncertainties.

Present recommendations.

Check for understanding and agreement.



Risky Relative Adjectives

HOW

low is low

moderate is moderate

high is high



Evidence-based risk communication

"There is likely no single best method of communicating probabilities to patients but rather several good options with some better suited to certain risk scenarios."

Ann Intern Med 2014;161:270-80

Recommended approaches

Need a time frame, main endpoints, ask what they know

GENERAL SUGGESTIONS - these are "relative" use percentages (5%) or natural frequencies (5 out of 100) - BOTH? use absolute terms add bar graphs or icon arrays use incremental risk format with icon arrays in the same array

avoid use of NNTs

if use relative risks add baseline risks

Ann Intern Med 2014;161:270-80

Three "sobering" but very empowering concepts

SYMPTOMS

If a patient seems to be getting a benefit from a medication for symptoms they likely aren't

PREVENTION

If a patient is on a medication for risk reduction (BP, chol, glucose BMD) the benefit they are receiving is likely not large enough for them to make up for the cost, inconvenience and adverse effects

DOSE

If a patient is on a medication they are likely on too high a dose

It's all about figuring out

The Chance of "X"

WITH NO

TREATMENT/TEST

The Chance "X"

WITH

TREATMENT/TEST



Tools For Practice

TOOLS FOR PRACTICE



#231 Does an ASA a day really keep the doctor away?

Author(s): Paul Fritsch, Michael R Kolber Publication Date: March 18, 2019 Collection: Tools for Practice

Categories: Cardiology, Gastroenterology, General, Oncology

Clinical Question: Is ASA effective for reducing cardiovascular events in patients without pre-existing cardiovascular disease?

Tags: ASA, cardiovascular, cardiovascular disease, elderly, diabetic, gastrointestinal, cancer, colon, CVD, transfusion, hemodynamic, circulatory system, primary prevention, aspirin, bleeding, bleeds

∠View Article

A

https://www.bmj.com/rapid-recommendations

Dual vs single antiplatelet therapy



The BMJ Practice: Dual antiplatelet therapy with aspirin and clopidogrel for acute high risk transient ischaemic attack and minor ischaemic stroke

BMJ Research: Clopidogrel plus aspirin versus aspirin alone for acute minor ischaemic stroke or high risk transient ischaemic attack

Oxygen therapy for acutely ill medical patients



The BMJ Practice: Oxygen therapy for acutely ill medical patients: a clinical practice guideline

The Lancet research: Mortality and morbidity in acutely ill adults treated with liberal versus conservative oxygen therapy (IOTA): a systematic review and meta-analysis

MAGICapp: Expanded version of the results

Prostate cancer screening



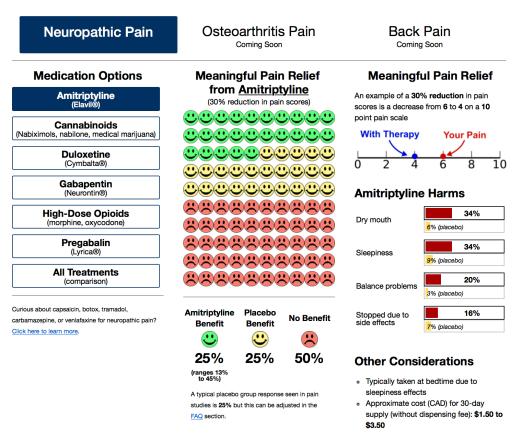
The BMJ Practice: Prostate cancer screening with prostate-specific antigen (PSA) test: a clinical practice guideline

The BMJ research: Prostate cancer screening with prostate-specific antigen (PSA) test: a systematic review and meta-analysis.

BMJ Open research: Values and preferences of men for undergoing prostate-specific antigen screening for prostate cancer: a systematic review

The BMJ editorial: What should doctors say to men asking for a PSA test?

Comparing Treatment Options for Pain: The C-TOP Tool



http://pain-calculator.com

mystudies.org ~300 studies

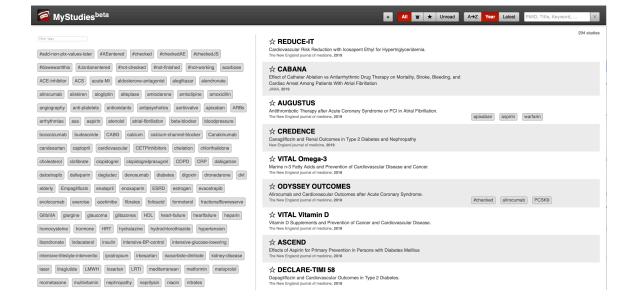




Study Results at Your Fingertips

You want to use evidence in your clinical practice from the landmark studies – those studies that change practice. Your patient comes in and asks you about the latest greatest study. How can you quickly and easily get all that information? Let MyStudies help.

You are at a presentation and you start to wonder if the presenter is really telling you everything you need to know about a study. Did they just present relative numbers? Did they only present the benefits with no mention of harms? Did they come up with conclusions that don't really match the results? **MyStudies can help.**



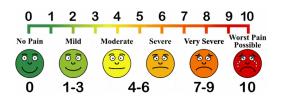
All the large RCTs evaluating the impact of glucose lowering medications on CVD Outcomes

		RCT	s evaluating the impact of medicat	ions on CVD out	omes in T2DM	
YEAR	NAME		MEDICATION	RESULT	OUTCOME CHANGED	ABSOLUTE DIFFERENCE/TIME
1970		SU	tolbutamide (Orinase)	NEGATIVE	CVD mortality	↑ 8%/5 years
1971	UGDP	BG	phenformin (DBI)	NEGATIVE	Mortality	↑ 6%/5-8 years
1976	OGDF	SU	tolbutamide (Orinase)	NEGATIVE	Fatal MI	↑ 5%/5 years
1982		IN	insulin	NEUTRAL		
1998		IN,SU	insulin, chlorpropamide, glyburide/glibenclamide, glipizide	NEUTRAL		
1998	UKPDS 33/34	IN,SU,BG	metformin, insulin, chlorpropamide, glyburide/glibenclamide, glipizide	NEUTRAL except POSITIVE for metformin	Mortality MI	√ 7%/11 years √ 6%/11 years
2003	STOP-NIDDM	отн	acarbose (Precose)	POSITIVE	MI	√ 1.5%/3 years
2005	PROACTIVE	GLIT	pioglitazone (Actos)	POSITIVE	MI	↓ 1.5%/3 years
2007	RECORD	GLIT	rosiglitazone (Avandia)	NEGATIVE	Heart failure	↑ 1%/4 years
2012	ORIGIN	IN	insulin	NEUTRAL		
2013	EXAMINE	DPP4	alogliptin (Nesina)	NEUTRAL		
2014	SAVOR-TIMI 53	DPP4	saxagliptin (Onglyza)	NEGATIVE	Heart failure	↑ 1%/2 years
2014	ALECARDIO	отн	aleglitizar	NEUTRAL		
2015	ELIXA	GLP	lixisenatide (Adlyxin)	NEUTRAL		
2015	TECOS	DPP4	sitagliptin (Januvia)	NEUTRAL		
2015	EMPA-REG	GLIF	empagliflozin (Jardiance)	POSITIVE	Mortality Heart failure	
2016	SUSTAIN 6	GLP	semaglutide (Ozempic)	POSITIVE	Combined outcome	√ 2%/2 years
2016	LEADER	GLP	liraglutide (Victoza)	POSITIVE	Mortality Combined outcome	1%/4 years✓ 2.5%/4 years
2017	CANVAS	GLIF	canagliflozin (Invokana)	POSITIVE	Combined outcome Heart failure Amputations	2 %/3.5years 1%/3.5 years ↑ 1%/3.5 years
2017	EXSCEL	GLP	exenatide (Byetta)	NEUTRAL		
2017	ACE	отн	acarbose (Procose)	NEUTRAL		
2017	Omarigliptin	DPP4	omarigliptin	NEUTRAL		
2018	HARMONY	GLP	albiglutide (Tanzeum)	POSITIVE	Combined outcome	√ 2%/2 years
2018	CARMELINA	DPP4	linagliptin (Tradjenta)	NEUTRAL		
2018	DECLARE-TIMI 58	GLIF	dapagliflozin (Farxiga)	POSITIVE	Combined outcome	↓ 1%/4 years
2019	REWIND	GLP	dulaglutide (Trulicity)	POSITIVE	Combined outcome Renal outcomes	1.5%/5.4 years2.5%/5.4 years
2019	PIONEER 6	GLP (oral)	semaglutide (Ozempic)	POSITIVE	CVD mortality Mortality	1%/1.5 years↓ 1.5%/1.5 years
2019	CREDENCE		canagliflozin (Invokana)	POSITIVE	Combined CVD outcome Combined renal outcome outcomes	√ 2.5%/2.6 years √ 3%/2.6 years



Symptom Pearls

Symptoms



Scales - VAS, QOL, SGRQ - then what is the MICD

% of people who benefit in the treatment arm - that will be what you see in practice over placebo

% of people who benefit in the placebo arm - subtract that from the treatment to see how many actually benefit from the medication

Head-to-head studies are relatively uncommon

6-8 weeks	No longer depressed
Medication	50%
Placebo	40%
Medication benefit	50-40 = 10%
If person responds, the chance it is the medication	10/50 = 20%

RALL PARK ARSOLLITE % RENEFITS FOR SYMPTOMATIC TREATMENTS

					AN	N AL	1. 1(//		70 1 11			(// \			////A		I A	1 1//11			
	Erectile dysfunction	UTI	Strep	throat	Acute bronchitis	Acute sinusitis	Depression	Overactive bladder	Dementia	Neur	ropathic	pain	Knee osteoarthritis	Acute MSK	Gout	Asthma	СО	PD	Smoking cessation	Heart	burn
	Sildenafil	Antibiotic	Antibiotic	Steroid	Antil	biotic	SSRI	Anticholinergic	Donepezil	Gabapentin, opioids, duloxetine, pregabalin, venlafaxine	Amitriptyline	Cannabinoids	Steroid injection	Topical NSAIDs	Low dose colchicine	Inhaled steroids	LABA/LAMA vs LABA/ LAM/ICS	LABA vs LABA/ LAMA/ICS	Nicotine/ bupropion	H2RA	PPI
%	Succesful Intercourse	Asymptomatic day 3	No pain at 3	Complete pain relief 24 hours	No cough at follow- up	Cure/ improvemmen at 7-15 days	No longer depressed/ improved	Cure or improve	ADAS-COG change of 4	30% red	uction in pa	ain score	Pain reduction target or global improvement	>50% reduction in pain at 24-48h	>50% reduction in pain at 24h	No exacerbation	No exac	erbation	Not smoking at 1 year	No sym	ptoms
100																					
95																					
90																					
85						1															
80																					
75																		1			
70																					
65																					
60																	1				
55																					
50																					
45																				4	
40																					
35																					
30										4											
25																					
20																					
15																					
10																					
5																			_		
0																					



Prevention Pearls

If you were to treat two risk factors (glucose, cholesterol, blood pressure) in 100 patients for a lifetime (40 years) how many people do you think would derive a clinical benefit?

0-10%

11-20%

21-30%

31-40%

41-50%

51-60%

61-70%

71-80%

81-90%

91-100%

Math 101 - actually grade 5 REMEMBER - X% of Y - "OF" means multiply

WHAT IS THE **ABSOLUTE** BENEFIT %?

		Rela	tive benef	it (%)	
BASELINE RISK (%)	10	15	20	25	30
10	1	1.5	2	2.5	3
15	1.5	~2.5	3	~4	4.5
20	2	3	4	5	6
30	3	4.5	6	~8	9

WHAT IS THE NNT?

Absolute benefit	0.5%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
NNT	200	100	50	33	25	20	~17	~14	~13	~11	10

Math 101 - actually grade 5 REMEMBER - X% of Y - "OF" means multiply

WHAT IS THE **ABSOLUTE** BENEFIT %?

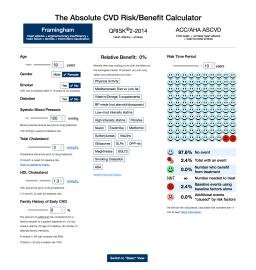
	Relative benefit (%)										
BASELINE RISK (%)	10	15	20	25	30						
10											
15											
20											
30											

WHAT IS THE NNT?

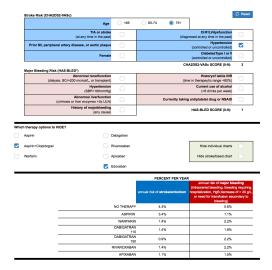
Absolute benefit	0.5%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	
NNT												

Ballpark Risks (CVD, fractures etc)

https://therapeuticseducation.org/tools

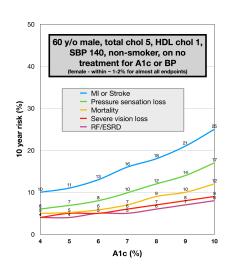


cvdcalculator.com



sparctool.com

RISK FACTORS		Zero)		One			Two	
t-score	-1.5	-2.5	-3.5	-1.5	-2.5	-3.5	-1.5	-2.5	-3.5
Female									
50	4	5/1	9/4	6	8/2	14/7	8	12/3	21/11
60	7	10/2	16/6	10/1	14/3	23/9	14/1	20/5	32/14
70	9/1	13/3	21/7	12/1	18/4	30/11	16/2	25/6	41/16
80	13/3	18/6	29/14	17/6	26/12	40/24	24/10	35/20	52/37
Male									
50	4	5/2	11/6	5	8/3	16/10	8/1	12/5	24/16
60	6/1	9/3	15/8	8/1	12/4	21/11	12/2	18/6	29/17
70	6/2	10/4	16/8	9/3	14/6	22/13	12/4	19/10	31/20
80	7/3	11/5	16/9	11/5	16/9	23/16	15/9	22/15	32/25

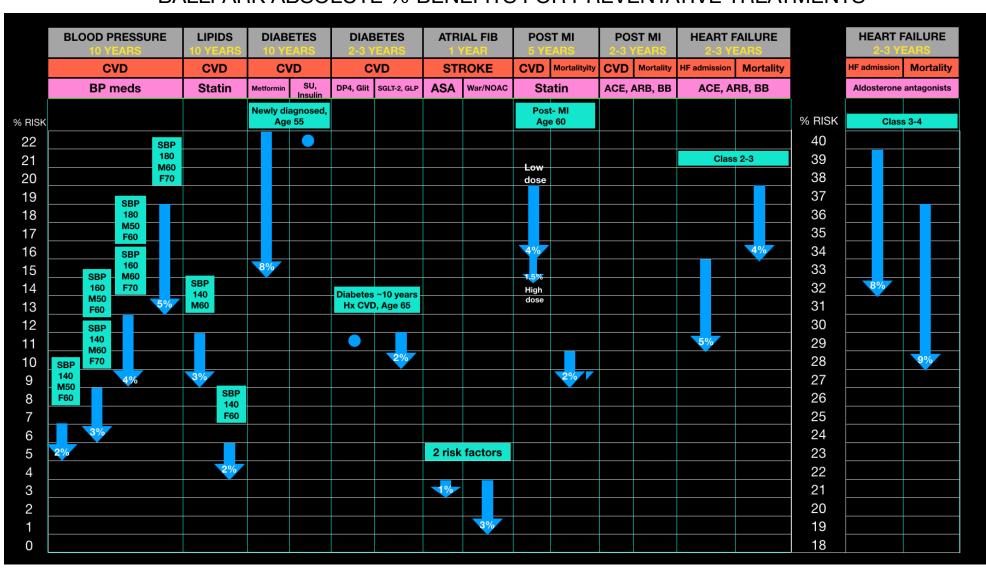


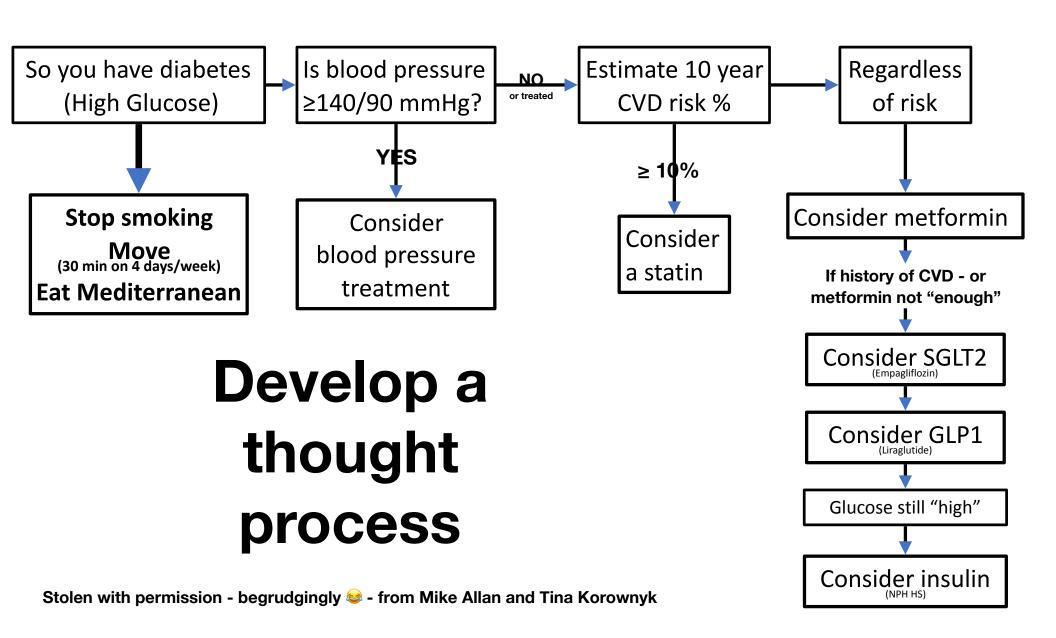
https://sanjaybasu.shinyapps.io/recodesi/

BALLPARK RELATIVE % BENEFITS FOR PREVENTATIVE TREATMENTS

	Lifestyle	Cholesterol	Blood pressure	Glucose	A fib	Heart failure	Osteoporosis	Flu	Zoster	HPV
RRR%		Cardiovasc	ular events		Stroke	Mortality	Fractures		Infection	i I
100										
95	Stopping									
90	smoking (obviously no									LIDV
85	RCTs)								Zoster	HPV Vaccine
80	,								Vaccine	vaccine
75										
70										
65					Warfarin/NOACS					
60								Flu		
55								vaccine		
50			Blood pressure diabetes					Vaccinc		
45										
40										
35				Metformin?						
30	Mediterranean	Statins	Blood pressure				Bisphos, monoclonal			
25	Physical Activity				Aonirin	ACEI, BB, Aldo antag				
20					Aspirin					
15		PCSK9 Monoclonal antibodies		SGLT2, GLP						
10	Aspirin						Calcium Vitamin D			
5		Ezetimibe								
0		Fibrate, niacin		DPP4, SU, insulin, glitazone						

BALLPARK ABSOLUTE % BENEFITS FOR PREVENTATIVE TREATMENTS





A Reasonable Side Effect List

An unsolvable problem?



They are not captured well/completely/understandably in studies - but likely the best we have

Rarely can we figure out rare side effects

Many monographs, books, studies, websites just list a variety of symptoms, often with no numbers, no context, no idea of the duration, severity, frequency, statistical significance?

change in sleep-babits dry-mouth upper reprinting states and the states are shown as the states are sh

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Marine n-3 Fatty Acids and Prevention of Cardiovascular Disease and Cancer

This is a !@#\$% 5.3 year study

Table S7. Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Safety and Adverse Events by Randomized Assignment to Omega-3 Fatty Acids (n-3) compared to Placebo

	No. of	Events			
Outcome	n-3 (N = 12,933)	Placebo (N = 12,938)	HR	95% CI	P-value
Monitored safety conditions					
Gastrointestinal bleeding	370	374	0.99	0.86-1.14	0.89
Blood in urine	919	874	1.06	0.96-1.16	0.25
Easy bruising	3443	3399	1.02	0.97-1.07	0.48
Frequent nosebleeds	465	491	0.95	0.83-1.07	0.40
Kidney failure or dialysis	85	88	0.97	0.72-1.30	0.82
Other symptoms and side effects					
Stomach upset or pain	4887	4843	1.01	0.97-1.05	0.72
Nausea	3558	3550	1.00	0.96-1.05	0.94
Constipation	5184	5111	1.01	0.97-1.05	0.51
Diarrhea	5599	5580	1.00	0.97-1.04	0.77
Skin rash	3331	3367	0.99	0.94-1.03	0.58
Bad taste in mouth	2240	2245	1.00	0.95-1.06	0.92
Increased burping	2217	2158	1.03	0.97-1.10	0.29



	Davis stars (FNO)	Statins		Proton pump inhibit		Proton pump in	utura-	Dantas au	mp inhibitor	Proton
	Drug class (ENG)									
	Drug class (FR)	Statines		Inhibiteur de la pon	npe a protons		pompe à protons		de la pompe à protor	
	Drug name (generic - ENG)			Lansoprazole		Esomeprazole		Omeprazo		Dexlar
	Other drug synonyms (ENG)		Co Lovastatin; Pro		Mylan-Lansoprazole		ole; Apo-Esomeprazole;			
	Drug name (generic - FR)	Lovastatine		Lansoprazole		Esoméprazole		Oméprazo		Dexlar
			Co Lovastatin; Pro		Mylan-Lansoprazole		ole; Apo-Esomeprazole;			
	Drug name (brand)	Mevacor		Prevacid		Nexium		Losec, Ole		Dexila
Side effect category		%	Category	%	Category	%	Category	%	Category	%
	Headache	7.7*	1-10%	2.1*	1-10%	2.1*	1-10%	2.1*	1-10%	2.1*
	Seizure)		0		0		0
Neurologic	Pins and needles sensation	1	1-10%			0		0		0
	Insomnia)		0		0		0
	Trembling					0		0		0
	Angina			>1	1-10%	>1	1-10%	>1	1-10%	>1
	Suicidal thoughts		()		0		0		0
	Depression)		0		0		0
	Strange dreams)		0		0		0
Psychiatric	Confusion					0		0		0
rayomatric	Anxiety		(1.7	1-10%	1.7	1-10%	1.7	1-10%	1.7
	Difficulty falling asleep	1.9	1-10%	2.1	1-10%	2.1	1-10%	2.1	1-10%	2.1
	Anxiety disorders	2.3	1-10%	<1	0,1-1%	<1	0,1-1%	<1	0,1-1%	<1
	Nervousness)		0		0		0
	Feeling jittery					0		0		0
	Difficulty breathing		(1.1	1-10%	1.1	1-10%	1.1	1-10%	1.1
Respiratory	Throat or nose infection			8.5	1-10%	8.5	1-10%	8.5	1-10%	8.5
	Coughing		()		0		0		0
	Fainting)		0		0		0
	Cold fingers & toes					0		0		0
	High blood pressure		(2.6	1-10%	2.6	1-10%	2.6	1-10%	2.6
	Flushing)		0		0		0
	High blood pressure)		0		0		0
Cardiovascular	Dizziness when standing up)		0		0		0
	Chest pain) >1	1-10%	>1	1-10%	>1	1-10%	>1



Your Medication's Side Effects

Home About Disclaimer Contact

■ I think I have a side effect

Search for another medication

Language: English (EN)

Atorvastatin (Lipitor)

This medications is generally used to treat the following conditions:

None reported — Constipation — High blood sugar
— Diarrhea
— Headache
— Liver damage
— Muscle and/or joint pain
— Nausea or vomiting
— Stomach ache

People aged over 65 should be aware that this medication increases the risk of:

- Diarrhea

– Falls

Costs



Generic Name	Brand name	Strength	Dosing	90 Day Cost (unless otherwise noted)	Coverage
HYPOGLYCEMIC AGE	ENTS				
Biguanides					
Metformin	Glucophage	500mg	2 BID	\$30	BC / IA covered
Metformin SR	Glumetza SR	1000mg	2 QD	\$255	NC by BC or IA
Sulfonylureas					
Glyburide	Diabeta	5mg	BID	\$25	BC / IA covered
Gliclazide, Gliclazide MR	Diamicron/MR	80mg/30mg MR	BID, 2 QD MR	\$30	BC / IA covered
Meglitinides					
Repaglinide	Gluconorm	1mg	TID	\$35	BC / IA covered
Dipeptidylpeptidase-4	Inhibitors (DPP-4)				
Linagliptin	Trajenta	5mg	QD	\$265	SA req'd for BC and IA
Saxagliptin	Onglyza	5mg	QD	\$295	SA req'd for BC and IA
Sitagliptin	Januvia	100mg	QD	\$310	SA req'd for BC and IA
Sodium Glucose Cotran	nsporter 2 (SGLT2) Inhib	pitors			
Empagliflozin	Jardiance	10mg	QD	\$270	SA req'd for BC and IA
Canagliflozin	Invokana	100mg	QD	\$280	SA req'd for BC and IA
Glucagon-like Peptide 1	Agonist (GLP-1)				
Liraglutide	Victoza	1.2mg SQ	QD	\$575	NC by BC or IA
Liraglutide	Victoza	1.8mg SQ	QD	\$855	NC by BC or IA
nsulin (Prices may vary k	petween pharmacies, relat	ive differences likely c	onsistent. Max al	lowable price fo	r 1500 Units of penfill insuli
Regular insulin	Novolin Toronto/ Humulin R	100U/mL	As dir	\$60	BC / IA covered
Long-acting insulin	Novolin NPH/Humulin N	100U/mL	As dir	\$65	BC / IA covered
Rapid-acting insulin	Novorapid/Humalog	100U/mL	As dir	\$75	BC / IA covered
Basal insulin (Glargine)	Basaglar	100U/mL	As dir	\$90	BC covered, NC by IA
Basal insulin (Glargine)	Toujeo	300U/mL	As dir	\$110	NC by BC or IA
Basal insulin (Glargine)	Lantus	100U/mL	As dir	\$115	BC / IA covered
Basal insulin (Detemir)	Levemir	100U/mL	As dir	\$130	BC / IA covered
OBESITY					
Orlistat	Xenical	120mg	TID	\$505	NC by BC or IA
_iraglutide	Saxenda	3mg SQ	QD	\$1,165	NC by BC or IA

https://www.acfp.ca/wp-content/uploads/2018/03/ACFPPricingDoc2018.pdf

Inconvenience

Get the prescription



Fill the prescription



Pay for the prescription

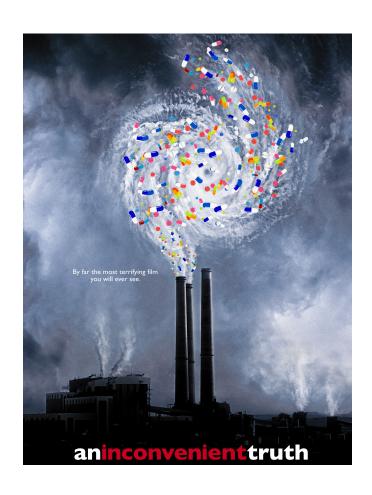


Take the prescription

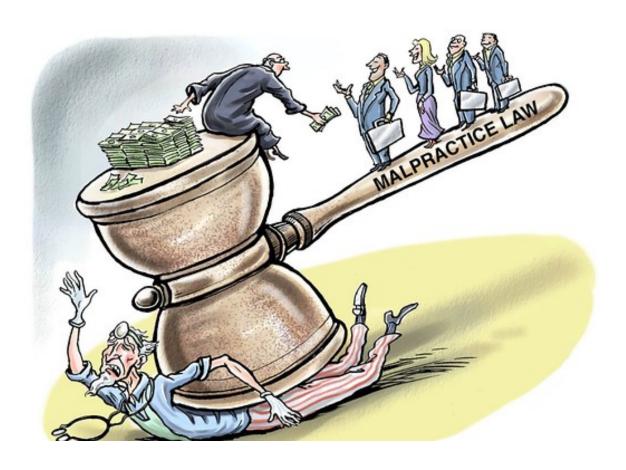


Labelling/worry





On a scale of 0-10, how much do you worry about legal issues if you don't follow guidelines?





RESEARCH ARTICLE

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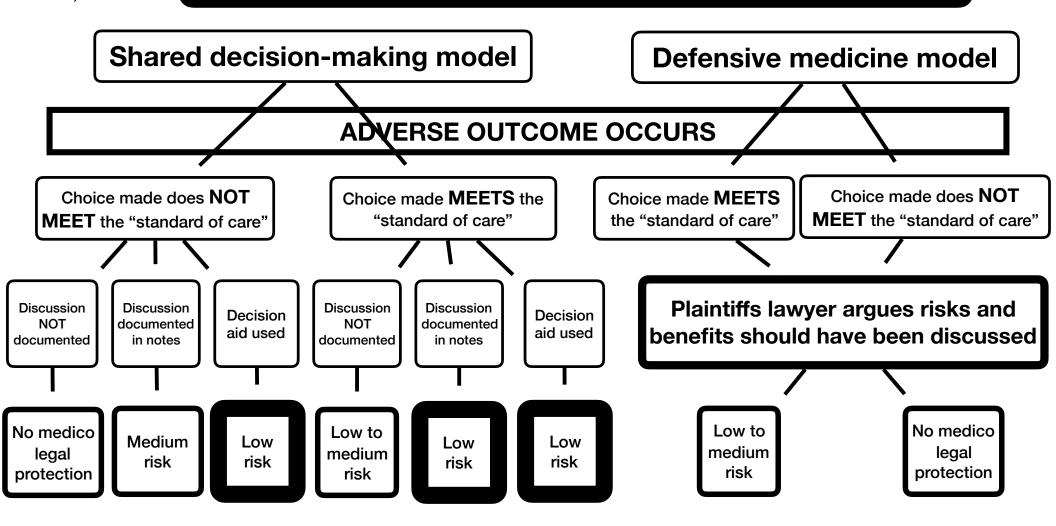
Can shared decision-making reduce medical malpractice litigation? A systematic review

Marie-Anne Durand 1.2*, Benjamin Moulton 3,4,5, Elizabeth Cockle 2, Mala Mann 6 and Glyn Elwyn 1,7

"There is insufficient evidence to determine whether or not shared decision-making and the use of decision support interventions can reduce medical malpractice litigation. Further investigation is required."

BMC Health Services Research 2015;15:167

Two or more reasonable treatment or screening options



Defensive model (guidelines/standard of care)

NEVER get to a low litigation risk



Reducing litigation risk 2 THINGS to DO

Shared decision-making model

1) Use a decision aid



2) Document decision