## **Supplementary Online Content**

Bouck Z, Mecredy GC, Ivers NM, et al. Frequency and associations of prescription nonsteroidal anti-inflammatory drug use among patients with a musculoskeletal disorder and hypertension, heart failure, or chronic kidney disease. *JAMA Intern Med.* Published online October 8, 2018. doi:10.1001/jamainternmed.2018.4273

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Inclusion C	riteria and Inde	x Event Definitions					
Description Description	Definition(s)	X EVERT DETINITIONS					
Primary care	At least one O	HIP claim for an in-office ph					
outpatient visit for	general practitioner (SPEC=00='general practitioner/family physician) and any of the following						
a musculoskeletal (MSK) disorder	diagnostic codes:  OHIP diagnostic						
(index event)	MSK type	Subcategory	Descriptions	codes			
(mag), evenly	Injury and Fractures/dislocation related conditions		Fractures: facial bones, skull, vertebral column without spinal damage, vertebral column with spinal damage, ribs, pelvis, clavicle, humerus, radius/ulna, carpal bones, metacarpals, phalanges, femur, fibula/tibia, ankle, leg, other; Dislocations: shoulder, elbow, finger, other	802, 803, 805, 806, 807, 808, 810, 812, 813, 814, 815, 816, 821, 823, 824, 827, 829, 831, 832, 834, 839			
		Strains/sprains	shoulder/upper arm, elbow, wrist/hand and fingers, knee/leg, ankle/foot & toes, coccyx/neck, other	840, 841, 842, 843, 844, 845, 847, 848			
	Arthritis and related conditions	Inflammatory arthritis	rheumatoid arthritis, Still's disease; ankylosing spondylitis; disseminated lupus erythematosus, scleroderma, polyarteritis nodosa, temporal arteritis; pyogenic arthritis	714, 720, 710, 446, 711			
		Other arthritis	osteoarthritis; injurytic arthritis; gout	715, 716, 274, 712			
		Soft tissue disorders	synovitis, tenosynovitis, bursitis, bunion, ganglion; Dupuytren's contracture; fibrositis, myositis, muscular rheumatism	727, 728, 729			
		Joint derangement	joint derangement, recurrent dislocation, ankylosis, meniscus or cartilage tear, loose body in joint	717, 718			
		Unspecified arthritis	• •	739			
	Bone and spinal conditions	Bone	osteomyelitis, osteochondritis, Legg- Perthes disease, osteoporosis, spontaneous fracture, oth. dis. of bone & cart., flat foot, pes planus, hallux valgus, hallux varus, hammer toe	730, 731, 732, 733, 734, 735			
		Spine	cervical arthritis, intervertebral disc	721, 722, 723, 724, 725, 737			

		disorders, pain neck, lumbar strain, lumbago, coccydynia, sciatica, lumbar disc disease	
	Congenital anomalies	(degenerative), scoliosis club foot, other congenital anomalies of limbs, other musculoskeletal	754, 755, 756
	Unspecified	anomalies Include ill-defined symptoms such as leg or joint pain	781
History of heart failure* (inclusion criteria)	At least one claim in OHIP with one of the index event:  428 (congestive heart failure)  OR  At least one emergency departs with ICD-10 code = I50 (heart failure)	nent visit [NACRS] or hospita	, ,
History of hypertension* (inclusion criteria)	At least one claim in OHIP with one of the index event:  o 401 = Essential hyperte  o 402 = Hypertensive he  o 403 = Hypertensive rer  OR  One claim for an outpatient visit  codes [NACRS, DAD]:  o 110 = essential hyperte  o 111 = hypertensive hea  o 112 = hypertensive rensive r	e following diagnostic codes ension art disease nal disease or hospital stay with one of the nsion rt disease (could be with or the lal (chronic kidney) disease rt and renal disease (could be	the following diagnostic without heart failure)
History of chronic kidney disease (CKD)* (inclusion criteria)	At least one claim in OHIP with one of the index event: 403, 585 OR At least one hospital admission in CIHI D following codes: E102, E112, E132, E142	e following diagnostic codes  AD or an outpatient visit in N	

*Notes:*\* In defining the **primary exposure variables**, there is some overlap among the operational definitions of these diseases across both ICD-10-CA and OHIP diagnostic codes.

All scenarios where multiple conditions (at least two of three) can be indicated on a single claim:

1. IF [DAD, NACRS] claim with DX10CODE I11 AND I50 then History of heart failure = 1 AND history of hypertension = 1

2. IF [DAD, NACRS] claim with DX10CODE (I12 OR I13) AND DX10CODE N18 then History of hypertension = 1 AND history of chronic kidney disease = 1 Same is true IF one [OHIP] claim with DXCODE = 403 then

History of hypertension = 1 AND history of chronic kidney disease = 1

3. IF [DAD, NACRS] claim with DX10CODE = I13 AND N18 AND I50 then

History of hypertension = 1 AND history of chronic kidney disease = 1 AND history of heart failure = 1

oTable 2 Primary and Sacandary Outcor	no Definitions	
<b>eTable 2.</b> Primary and Secondary Outcor Description (type) and definition	Generic drug name	DINs
Prescription NSAID use (primary) -	Celecoxib**	
Receipt of one or more ODB claims for	Celecoxin	2239941, 2239942, 2288915, 2288923,
any DIN <sup>a</sup> (corresponding with any of		2291975, 2291983, 2321246, 2321254, 2355442, 2355450,
the listed generic drugs) within 7		2399881, 2412373, 2412381, 2412497,
daysb after patient's index visit date.		2412500, 2418932, 2418940, 2420058,
		2420066, 2420155,
		2420163, 2423278, 2424533, 2424541,
		2426382, 2426390, 2435632, 2435640,
		2442639, 2442647,
		2445670, 2445689
	Diclofenac	881635, 2239355, 2239753, 2243433,
	potassium	2261774
	Diclofenac	514004, 514012, 590827, 632724, 632732,
	sodium***	782459, 808539, 808547, 839175, 839183,
		2048698, 2091194, 2158582, 2162814,
		2231504, 2231505, 2231506, 2231508,
		2261901, 2261928, 2261936, 2261944,
		2261960, 2302616, 2302624
	Diclofenac sodium	1917056, 2229837, 2341689, 2341697,
	& misoprostol	2397145, 2397153
	Etodolac	2142023, 2142031, 2232317, 2232318
		<u> </u>
	Floctafenine	2017628, 2017636, 2244680, 2244681
	Flurbiprofen	600792, 647942, 1912038, 1912046,
		2100509, 2100517
	Ibuprofen	252409, 327794, 364142, 441643, 441651,
		484911, 506052, 585114, 629324, 629340,
		629359
	Indomethacin	16039, 16047, 16233, 337420, 337439,
		594466,
		2231799, 2231800, 2461536, 2461811
	Ketoprofen	761680, 790427, 790435, 842664,1926365,
	•	1926373, 1926381, 1926403, 1926411,
		2015951, 2172577
	Ketorolac	2162660, 2229080, 2465124
	tromethamine	2102000, 2220000, 2100121
	Mefenamic acid	155225, 2229452
	Meloxicam	
	Meioxicam	2242785, 2242786, 2248267, 2248268,
		2248973, 2248974, 2250012, 2250020,
		2255987, 2255995, 2258315, 2258323,
_		2390884, 2390892
=	Nabumetone	2083531, 2083558, 2238639, 2240868
	Naproxen	299413, 522651, 522678, 565350, 589861,
		592277, 600806, 627097, 2017237, 2162415,
		2162423, 2162431, 2162458, 2162474,
		2162482, 2162490,
		2162792, 2241024, 2243312, 2243313,
		2243314, 2243432, 2246699, 2246700,
		2246701, 2294702,
		2294710
_	Naproxen sodium	784354, 1940309, 2162717, 2162725
<del>-</del>	Naproxen &	2361701, 2361728, 2443449, 2458608
	esomeprazole	2001101, 2001120, 2770770, 2700000
<del>-</del>	magnesium	0007000 0040004
_	Oxaprozin	2027860, 2243661
	Piroxicam	525596, 525618, 632716, 642886, 642894,
		695696, 695718, 2154463
_	Sulindac	432369, 456888, 745588, 745596
<del>-</del>	Tiaprofenic acid	1989782, 2179679, 2179687, 2221950,
	•	2230828
-	0.0010.1	

Cardiac complication (secondary)- Defined as at least one claim with any of	Ischemic heart disease: I20-I25 f				
the following ICD-10 codes [DAD, NACRS]:	Heart failure: 150				
•	Other cardiovascular conditions: 100-102, 105-113, 115, 126-128, 130-140, 144-149, 151, 152, 160-174, 177-182, 195, 197, R02, R55, R57, and R96				
Renal complication (secondary) - Defined as at least one claim with any of the following codes [DAD, NACRS]:	Acute kidney injury:  • ICD code (primary or secondary) = N17, N170-N172, N178-N179				
	<ul> <li>Acute dialysis:</li> <li>ICD-10 code = G323, G325, G866, R849 (hemodialysis); G330, G331 (peritoneal dialysis); G082, G083, G085, G090-G093, G095, G294, G295 (continuous renal replacement therapy)</li> <li>CCI code = 1PZ21HQBR (hemodialysis), 1PZ21HQBS (continuous renal replacement therapy), 1PZ21HPD4 (peritoneal dialysis)</li> </ul>				
	Hyperkalemia ICD-10 code = E875				
Death (secondary) - all-cause mortality	Any claim in [RPDR] with DTHELAG and DTHDATE				

Death (secondary) – all-cause mortality

Any claim in [RPDB] with DTHFLAG and DTHDATE

Notes: DINs = drug identification numbers; \*=aspirin and topical formulations excluded; \*\*only selective (COX-2 in All DINs had to be listed on the ODB formulary and covered during the study window.

<sup>&</sup>lt;sup>b</sup> Please refer to **Supplemental Table 3** for preliminary results that informed length of observation window.

**eTable 3.** Preliminary Analysis of Distribution of NSAIDs Prescribed Within 30 Days of Musculoskeletal-Related Primary Care Visit by Number of Days Since Visit Occurred.

Days	n	%	Cumulative n	Cumulative %
0	148662	44.27	148662	44.27
1	23906	7.12	172568	51.39
2	11798	3.51	184366	54.90
3	8793	2.62	193159	57.52
4	7967	2.37	201126	59.89
5	7290	2.17	208416	62.06
6	7835	2.33	216251	64.39
7*	8574	2.55	224825	66.95
8	6586	1.96	231411	68.91
9	5282	1.57	236693	70.48
10	4831	1.44	241524	71.92
11	4920	1.47	246444	73.38
12	4881	1.45	251325	74.84
13	5604	1.67	256929	76.51
14	7063	2.10	263992	78.61
15	5418	1.61	269410	80.22
16	4453	1.33	273863	81.55
17	4088	1.22	277951	82.77
18	4067	1.21	282018	83.98
19	4166	1.24	286184	85.22
20	4794	1.43	290978	86.65
21	6240	1.86	297218	88.50
22	4883	1.45	302101	89.96
23	4004	1.19	306105	91.15
24	3716	1.11	309821	92.26
25	3700	1.10	313521	93.36
26	3871	1.15	317392	94.51
27	4345	1.29	321737	95.80
28	6002	1.79	327739	97.59
29	4514	1.34	332253	98.94
30	3574	1.06	335827	100.00

Notes: \*As most NSAIDs (67.0%) dispensed within 30 days of a musculoskeletal-related visit were claimed within the first week, we set 7 days as our observation window (see **eTable 2**).

**eTable 4.** Distribution of Baseline Characteristics by Primary Outcome for Unmatched (n = 396,248) and Matched Samples (n = 71,104).

,		Pre-matching sample			Post-matching sample		
			or matching, n =	396,248)			)
		Prescription NS		Prescription NSAID use			_
		Yes	No (n	Ctd	Yes	No	Std.
Variable	Value	(n = 36,119)	(n = 360,129)	Std. difference	(n = 35,552)	No (n = 35,552)	difference
CKD	Yes	1,612 (4.5%)	32,790	0.19	1,442	1,442	0
OND	103	1,012 (4.070)	(9.1%)	0.10	(4.1%)	(4.1%)	· ·
Hypertension	Yes	34,701	332,066	0.17	34,300	34,300	0
.,		(96.1%)	(92.2%)		(96.5%)	(96.5%)	
Heart failure	Yes	1,661 (4.6%)	32,463	0.18	1,433	1,433	0
			(9.0%)		(4.0%)	(4.0%)	
Back pain	Yes	6,074	46,976	0.11	5,975	5,659	0.02
Arthritis	No	(16.8%) 22,147	(13.0%) 246,113	0.15	(16.8%) 21,949	(15.9%) 21,258	0.04
Attilitio	INO	(61.3%)	(68.3%)	0.13	(61.7%)	(59.8%)	0.04
Arthritis	Yes -	763 (2.1%)	14,131	0.11	761 (2.1%)	819 (2.3%)	0.01
,	Inflammatory	. 00 (=/0)	(3.9%)	· · · ·	(=,0)	0.0 (2.070)	0.0.
Arthritis	Yes - Other	13,209	99,885	0.19	12,842	13,475	0.04
		(36.6%)	(27.7%)		(36.1%)	(37.9%)	
Age group	65-69 y	12,138	98,767	0.13	11,997	12,392	0.02
		(33.6%)	(27.4%)		(33.7%)	(34.9%)	
Age group	70-74 y	9,099	81,181	0.06	8,953	9,094	0.01
Ago group	75-79 y	(25.2%) 7,073	(22.5%)	0.01	(25.2%)	(25.6%)	0
Age group	15-19 y	(19.6%)	72,286 (20.1%)	0.01	6,946 (19.5%)	6,895 (19.4%)	0
Age group	80-84 y	4,650	57,545	0.09	4,579	4,473	0.01
, igo group	0001	(12.9%)	(16.0%)	0.00	(12.9%)	(12.6%)	0.01
Age group	85+ y	3,159 (8.7%)	50,350	0.17	3,077	2,698	0.04
0 0 1	,	, , ,	(14.0%)		(8.7%)	(7.6%)	
Male	Yes	16,223	145,856	0.09	15,916	15,916	0
		(44.9%)	(40.5%)		(44.8%)	(44.8%)	
Rural	Yes	3,152 (8.7%)	37,851	0.06	2,969	2,969	0
la a a a a a an da til a	4 (	7.400	(10.5%)	0.07	(8.4%)	(8.4%)	0
Income quintile	1 (lowest)	7,193 (19.9%)	62,343 (17.3%)	0.07	7,066 (19.9%)	7,066 (19.9%)	0
Income quintile	2	7,837	72,394	0.04	7,709	7,709	0
moome quintile	_	(21.7%)	(20.1%)	0.04	(21.7%)	(21.7%)	· ·
Income quintile	3	7,490	72,382	0.02	7,346	7,346	0
•		(20.7%)	(20.1%)		(20.7%)	(20.7%)	
Income quintile	4	7,289	76,749	0.03	7,197	7,197	0
		(20.2%)	(21.3%)		(20.2%)	(20.2%)	
Income quintile	5 (highest)	6,310	76,261	0.09	6,234	6,234	0
Ulara Marka da a Mara	V	(17.5%)	(21.2%)	0.05	(17.5%)	(17.5%)	0
Hospitalization in	Yes	7,731 (21.4%)	116,673	0.25	7,508	7,441 (20.9%)	0
past y Cancer	Yes	(21.4%) 5,751	(32.4%) 73,213	0.11	(21.1%) 5,640	5,337	0.02
Caricer	163	(15.9%)	(20.3%)	0.11	(15.9%)	(15.0%)	0.02
Cardiovascular	Yes	8,114	105,901	0.16	7,937	7,372	0.04
disease (other)		(22.5%)	(29.4%)		(22.3%)	(20.7%)	
ACE-inhibitor or	No use	10,848	148,515	0.24	10,731 <sup>°</sup>	10,731 <sup>°</sup>	0
ARB	_	(30.0%)	(41.2%)		(30.2%)	(30.2%)	
ACE-inhibitor or	Recent use	3,980	31,725	0.07	3,735	3,735	0
ARB	C	(11.0%)	(8.8%)	0.40	(10.5%)	(10.5%)	0
ACE-inhibitor or ARB	Current use	21,291 (58.9%)	179,889 (50.0%)	0.18	21,086 (59.3%)	21,086 (59.3%)	0
Diuretic	No use	27,477	260,449	0.09	27,333	27,333	0
Diarotto	140 030	(76.1%)	(72.3%)	0.00	(76.9%)	(76.9%)	· ·
Diuretic	Recent use	1,671 (4.6%)	19,252	0.03	1,403	1,403	0
		, , ,	(5.3%)		(3.9%)	(3.9%)	
Diuretic	Current use	6,971	80,428	0.07	6,816	6,816	0
		(19.3%)	(22.3%)		(19.2%)	(19.2%)	
Liver disease	Yes	633 (1.8%)	7,740 (2.1%)	0.03	627 (1.8%)	538 (1.5%)	0.02
Prior NSAID use	Yes	8,243	32,024	0.39	7,822	7,228	0.04
Payment model	Fee-for-service	(22.8%) 4,355	(8.9%)	0.04	(22.0%) 4,304	(20.3%) 4,099	0.02
r ayını <del>c</del> ını model	ree-ioi-selvice	4,355 (12.1%)	39,055 (10.8%)	0.04	4,304 (12.1%)	4,099 (11.5%)	0.02
Payment model	FHG	12,999	104,234	0.15	12,786	12,877	0.01
,		(36.0%)	(28.9%)	-	(36.0%)	(36.2%)	
		•	-		-	•	

Payment model Payment model	FHN FHO	65 (0.2%) 9,459	546 (0.2%) 103,862	0.01 0.06	60 (0.2%) 9,386	44 (0.1%) 9,509	0.01 0.01
Payment model	FHT	(26.2%) 7,379	(28.8%) 95,449	0.14	(26.4%) 7,197	(26.7%) 7,024	0.01
r aymont model		(20.4%)	(26.5%)	0.14	(20.2%)	(19.8%)	0.01
Payment model	Other	1,862 (5.2%)	16,983 (4.7%)	0.02	1,819 (5.1%)	1,999 (5.6%)	0.02
April-June		9,502 (26.3%)	92,731 (25.7%)	0.01	9,393 (26.4%)	9,392 (26.4%)	0
July-September		9,227 (25.5%)	85,948 (23.9%)	0.04	8,990 (25.3%)	8,785 (24.7%)	0.01
October-November		8,057 (22.3%)	85,821 (23.8%)	0.04	7,958 (22.4%)	8,108 (22.8%)	0.01
CWC	Post-release	25,202	253,234	0.01	24,838	25,206	0.02
recommendation	1 001 1010000	(69.8%)	(70.3%)	0.01	(69.9%)	(70.9%)	0.02
Quarter	1	1,084 (3.0%)	10,796 (3.0%)	0	1,077 (3.0%)	1,119 (3.1%)	0.01
Quarter	2	1,144 (3.2%)	9,868 (2.7%)	0.03	1,124 (3.2%)	1,040 (2.9%)	0.01
Quarter	3	981 (2.7%)	9,771 (2.7%)	0	941 (2.6%)	961 (2.7%)	0
Quarter	4	915 (2.5%)	8,645 (2.4%)	0.01	906 (2.5%)	901 (2.5%)	Ō
Quarter	5	1,164 (3.2%)	10,919 (3.0%)	0.01	1,148 (3.2%)	1,068 (3.0%)	0.01
Quarter	6	1,121 (3.1%)	10,363 (2.9%)	0.01	1,085 (3.1%)	1,005 (2.8%)	0.01
Quarter	7	980 (2.7%)	10,120 (2.8%)	0.01	970 (2.7%)	932 (2.6%)	0.01
Quarter	8	841 (2.3%)	9,231 (2.6%)	0.02	825 (2.3%)	808 (2.3%)	0
Quarter	9	1,097 (3.0%)	11,329 (3.1%)	0.01	1,101 (3.1%)	1,043 (2.9%)	0.01
Quarter	10	1,180 (3.3%)	11,386 (3.2%)	0.01	1,139 <sup>°</sup> (3.2%)	1,069 <sup>°</sup> (3.0%)	0.01
Quarter	11	1,043 (2.9%)	11,434 (3.2%)	0.02	1,029 (2.9%)	994 (2.8%)	0.01
Quarter	12	2,353 (6.5%)	24,805 (6.9%)	0.01	2,333 (6.6%)	2,421 (6.8%)	0.01
Quarter	13	6,157 (17.0%)	59,687 (16.6%)	0.01	6,067 (17.1%)	6,162 (17.3%)	0.01
Quarter	14	5,782 (16.0%)	54,331 (15.1%)	0.03	5,642 (15.9%)	5,671 (16.0%)	0
Quarter	15	5,053 (14.0%)	54,496 (15.1%)	0.03	5,018 (14.1%)	5,221 (14.7%)	0.02
Quarter	16	5,224 (14.5%)	52,948 (14.7%)	0.01	5,147 (14.5%)	5,137 (14.4%)	0
<20 y since	1	9,187	99,621	0.05	9,043	8,683	0.02
graduation		(25.4%)	(27.7%)		(25.4%)	(24.4%)	
20-30 y since	2	10,202	101,524	0	10,023	9,961	0
graduation		(28.2%)	(28.2%)		(28.2%)	(28.0%)	
>30 y since	3	16,730 <sup>°</sup>	158,984	0.04	16,486´	16,908 <sup>°</sup>	0.02
graduation		(46.3%)	(44.1%)		(46.4%)	(47.6%)	
Male physician	Yes	26,056	242,119	0.11	25,721	25,721	0
		(72.1%)	(67.2%)		(72.3%)	(72.3%)	
IMG	Yes	11,636 (32.2%)	89,274 (24.8%)	0.17	11,451 (32.2%)	11,056 (31.1%)	0.02
Notes: CWC = Choos FHT = family health to IMG = international m	eam;	; FHG = family he	alth group; FHN	= family healt	h network; FH0	D = family healt	h organization;

**eTable 5.** 2x2 Tables for McNemar's Test of Correlated Binary Proportions for Overall Matched Sample and Sample Stratified by History of Hypertension.

<b>a</b> )	All	natients	in	the	matched	sample.
a		paucito		unc	mattheu	Sampic.

	NSAID within	_	
	Any	Any	
	secondary	secondary	
	outcome =	outcome =	
NSAID within $7 d = Yes$	Yes	No	Total
Any secondary outcome =	4	304	308
Yes			
Any secondary outcome =	296	34,948	35,344
No			
Total	300	35,252	35,552
.1 1 1 1:00 /		1) 0	0000

Absolute risk difference (exposed versus unexposed) = 0.0003.  $X^{2}(1)=0.11$ ; p-value = 0.74.

b) Matched sample excluding patients without hypertension.

	NSAID within	_	
	Any	Any	
	secondary	secondary	
	outcome =	outcome =	
NSAID within $7 d = Yes$	Yes	No	Total
Any secondary outcome =	4	293	297
Yes			
Any secondary outcome =	271	33,732	34,003
No			
Total	275	34,025	34,300

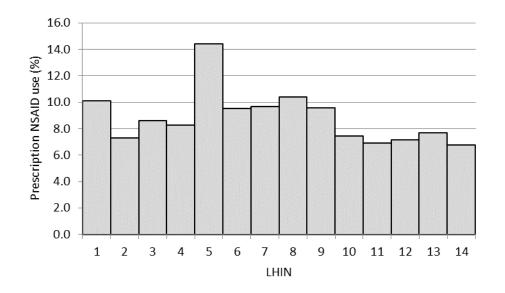
Absolute risk difference (exposed versus unexposed) = 0.0003; 95% CI (-0.001 to 0.002).  $X^2(1)=0.20$ ; p-value = 0.65.

c) Matched sample excluding patients with hypertension.

	NSAID within	_	
	Any	Any	_
	secondary	secondary	
	outcome =	outcome =	
NSAID within $7 d = Yes$	Yes	No	Total
Any secondary outcome =	0	11	11
Yes			
Any secondary outcome =	25	1,216	1,241
No			
Total	25	1,227	1,252
A1 1 / 1 1'CC /	1	1) 0	021 050/ CT (

Absolute risk difference (exposed versus unexposed) = -0.021; 95% CI (-0.021 to -0.002).  $X^2(1)=5.4$ ; p-value = 0.02.

**eFigure 1.** Prescription Nonsteroidal Anti-inflammatory Drug (NSAID) Use by Health Region (LHIN), 2010-11 to 2015-16.



**eFigure 2.** Prescription Nonsteroidal Anti-inflammatory Drug (NSAID) Use by Primary Care Practice Group, 2010-11 to 2015-16.

