



UNIVERSITY OF LEEDS

This is a repository copy of *Osteoarthritis in Europe: impact on health status, work productivity and use of pharmacotherapies in five European countries..*

White Rose Research Online URL for this paper:

<http://eprints.whiterose.ac.uk/86958/>

Version: Accepted Version

Article:

Kingsbury, SR, Gross, HJ, Isherwood, G et al. (1 more author) (2014) Osteoarthritis in Europe: impact on health status, work productivity and use of pharmacotherapies in five European countries. *Rheumatology*, 53 (5). 937 - 947. ISSN 1462-0324

<https://doi.org/10.1093/rheumatology/ket463>

Reuse

Unless indicated otherwise, fulltext items are protected by copyright with all rights reserved. The copyright exception in section 29 of the Copyright, Designs and Patents Act 1988 allows the making of a single copy solely for the purpose of non-commercial research or private study within the limits of fair dealing. The publisher or other rights-holder may allow further reproduction and re-use of this version - refer to the White Rose Research Online record for this item. Where records identify the publisher as the copyright holder, users can verify any specific terms of use on the publisher's website.

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.

Supplementary Table S1: Relationship between pain severity and medication use

	France*	Germany*	UK*	Italy*	Spain*	5EU*
Mild pain	n=282	n=282	n=678	n=155	n=139	n=1536
Use prescription medication	97 (34.4)	56 (19.9)	190 (28.0)	58 (37.4)	54 (38.8)	455 (29.6)
Use OTC medication	78 (27.7)	66 (23.4)	214 (31.6)	46 (29.7)	20 (14.4)	424 (27.6)
Use prescription paracetamol	3 (1.1)	0 (0.0)	7 (1.0)	0 (0.0)	1 (0.7)	11 (0.7)
Use prescription NSAID	61 (21.6)	48 (17.0)	142 (20.9)	57 (36.8)	38 (27.3)	346 (22.5)
Use prescription COX-2	8 (2.8)	2 (0.7)	3 (0.4)	6 (3.9)	3 (2.2)	22 (1.4)
Use prescription opioid	44 (15.6)	3 (1.1)	38 (5.6)	1 (0.6)	6 (4.3)	92 (6.0)
Use prescription glucosamine / chondroitin	5 (1.8)	1 (0.4)	0 (0)	0 (0)	12 (8.6)	18 (1.2)
Moderate pain	n=544	n=242	n=737	n=109	n=148	n=1780
Use prescription medication	289 (53.1)	106 (43.8)	429 (58.2)	52 (47.7)	92 (62.2)	968 (54.4)
Use OTC medication	162 (29.8)	66 (27.3)	214 (29.0)	34 (31.2)	20 (13.5)	496 (27.9)
Use prescription paracetamol	8 (1.5)	0 (0.0)	29 (3.9)	1 (0.9)	5 (3.4)	43 (2.4)
Use prescription NSAID	174 (32.0)	103 (42.6)	279 (37.9)	56 (51.4)	67 (45.3)	679 (38.1)
Use prescription COX-2	28 (5.1)	9 (3.7)	19 (2.6)	10 (9.2)	8 (5.4)	74 (4.2)
Use prescription opioid	158 (29.0)	13 (5.4)	170 (23.1)	1 (0.9)	11 (7.4)	353 (19.8)
Use prescription glucosamine/chondroitin	32 (5.9)	0 (0.0)	3 (0.4)	1 (0.9)	11 (7.4)	47 (2.6)
Severe pain	n=135	n=46	n=220	n=4	n=29	n=434
Use prescription medication	102 (75.6)	26 (56.5)	183 (83.2)	4 (100.0)	22 (75.9)	337 (77.6)
Use OTC medication	39 (28.9)	7 (15.2)	23 (10.5)	0 (0)	6 (20.7)	75 (17.3)
Use prescription paracetamol	6 (4.4)	0 (0.0)	10 (4.5)	0 (0)	4 (13.8)	20 (4.6)
Use prescription NSAID	48 (35.6)	25 (54.3)	112 (50.9)	3 (75.0)	14 (48.3)	202 (46.5)
Use prescription COX-2	8 (5.9)	1 (2.2)	11 (5.0)	0 (0.0)	0 (0.0)	20 (4.6)
Use prescription opioid	64 (47.4)	4 (8.7)	108 (49.1)	0 (0.0)	5 (17.2)	181 (41.7)
Use prescription glucosamine/chondroitin	6 (4.4)	0 (0.0)	0 (0.0)	0 (0.0)	1 (3.4)	7 (1.6)

*n (%) unless indicated. NSAID – non-steroidal anti-inflammatory drug; OTC – over the counter.

Supplementary Table S2: Satisfaction with medication

Sample size (no. using prescription medication)	France* n=488	Germany* n=188	UK* n=802	Italy* n=114	Spain* n=168	5EU* n=1760
Paracetamol	17 (3.5)	0 (0.0)	46 (5.7)	1 (0.9)	10 (6.0)	74 (4.2)
Very/extremely satisfied	6 (35.3)	0 (0.0)	21 (45.7)	0 (0.0)	3 (30.0)	30 (40.5)
Mean satisfaction ± SD	4.76 ± 1.44	-	5.24 ± 1.30	5.00 ± 0.00	4.70 ± 1.57	5.05 ± 1.36
NSAID	227 (46.5)	154 (81.9)	462 (57.6)	92 (80.7)	101 (60.1)	1036 (58.9)
Very/extremely satisfied	85 (37.4)	70 (45.5)	174 (37.7)	40 (43.5)	36 (35.6)	405 (39.1)
Mean satisfaction ± SD	4.83 ± 1.48	5.13 ± 1.26	5.07 ± 1.32	4.98 ± 1.33	4.99 ± 1.22	5.01 ± 1.34
FDC NSAID/GPA	12 (2.5)	10 (5.3)	38 (4.7)	8 (7.0)	7 (4.2)	75 (4.3)
Very/extremely satisfied	4 (33.3)	3 (30.0)	16 (42.1)	3 (37.5)	2 (28.6)	28 (37.3)
Mean satisfaction ± SD	4.42 ± 1.51	4.70 ± 1.42	5.11 ± 1.48	4.13 ± 1.96	4.43 ± 1.51	4.77 ± 1.54
COX-2 Inhibitor	44 (9.0)	12 (6.4)	33 (4.1)	16 (14.0)	11 (6.5)	116 (6.6)
Very/extremely satisfied	20 (45.5)	8 (66.7)	8 (24.2)	7 (43.8)	3 (27.3)	46 (39.7)
Mean satisfaction ± SD	4.61 ± 1.85	5.83 ± 1.11	4.70 ± 1.26	5.00 ± 1.55	4.91 ± 1.04	4.84 ± 1.54
Opioid	266 (54.5)	20 (10.6)	316 (39.4)	2 (1.8)	22 (13.1)	626 (35.6)
Very/extremely satisfied	79 (29.7)	10 (50.0)	123 (38.9)	0 (0.0)	7 (31.8)	219 (35.0)
Mean satisfaction ± SD	4.58 ± 1.54	4.95 ± 1.76	5.04 ± 1.36	5.00 ± 0.00	4.77 ± 1.34	4.83 ± 1.46
Glucosamine/chondroitin Rx	43 (8.8)	1 (0.5)	3 (0.4)	1 (0.9)	24 (14.3)	72 (4.1)
Very/extremely satisfied	15 (34.9)	0 (0.0)	2 (66.7)	0 (0.0)	8 (33.3)	25 (34.7)
Mean satisfaction ± SD	5.09 ± 1.00	5.00 ± 0.00	6.00 ± 1.00	1.00 ± 0.00	4.79 ± 1.53	4.97 ± 1.29

*n (%) unless indicated. FDC NSAID/GPA – fixed-dose combination non-steroidal anti-inflammatory drug and gastroprotective agent; NSAID – non-steroidal anti-inflammatory drug.

Supplementary Table S3: Cost-saving strategies

	France* n=961	Germany* n=570	UK* n=1635	Italy* n=268	Spain* n=316	5EU* n=3,750
Used any cost saving strategy in past 6 months (net)	484 (50.4)	207 (36.3)	138 (8.4)	158 (59.0)	85 (26.9)	1072 (28.6)
Cost Savings Strategies						
Taking less medication than my doctor prescribed	103 (10.7)	17 (3.0)	41 (2.5)	11 (4.1)	15 (4.7)	187 (5.0)
Cutting tablets in half	28 (2.9)	30 (5.3)	11 (0.7)	9 (3.4)	7 (2.2)	85 (2.3)
Buying fewer tablets	37 (3.9)	14 (2.5)	19 (1.2)	17 (6.3)	5 (1.6)	92 (2.5)
Asking doctor or pharmacist for generic alternatives	354 (36.8)	89 (15.6)	0 (0.0)	104 (38.8)	54 (17.1)	601 (28.4)
Asking for samples	16 (1.7)	21 (3.7)	11 (0.7)	24 (9.0)	14 (4.4)	86 (2.3)
Not filling a prescription because it was too expensive	79 (8.2)	22 (3.9)	27 (1.7)	12 (4.5)	8 (2.5)	148 (3.9)
Not filling a prescription and using an over-the-counter (OTC) as an alternative because it is less expensive	22 (2.3)	12 (2.1)	43 (2.6)	36 (13.4)	5 (1.6)	118 (3.1)
Buying prescription less often than directed	88 (9.2)	10 (1.8)	25 (1.5)	16 (6.0)	13 (4.1)	152 (4.1)
Buying prescriptions multiple months at a time through mail order	9 (0.9)	60 (10.5)	10 (0.6)	0 (0.0)	0 (0.0)	79 (2.5)
Using coupons for medications	0 (0.0)	11 (1.9)	3 (0.2)	0 (0.0)	0 (0.0)	14 (0.6)
Using discount card provided by a healthcare company	6 (0.6)	9 (1.6)	23 (1.4)	0 (0.0)	0 (0.0)	38 (1.2)
Ever had a prescription medication switched by a pharmacist						
Yes, it was switched to a generic version of a prescribed drug	614 (63.9)	196 (34.4)	191 (11.7)	123 (45.9)	53 (16.8)	1177 (31.4)
Yes, it was switched to another brand in the same drug class	110 (11.4)	195 (34.2)	116 (7.1)	22 (8.2)	14 (4.4)	457 (12.2)
Yes, it was switched to a generic version of another brand in the same drug class	287 (29.9)	80 (14.0)	50 (3.1)	24 (9.0)	15 (4.7)	456 (12.2)

*n (%) unless indicated.