### DELAYS IN ASSESSMENT OF RHEUMATOID ARTHRITIS IN PATIENTS ACROSS EUROPE

Karim Raza<sup>1,11</sup>, Rebecca Stack<sup>1</sup>, Rebecca Stack<sup>1</sup>, Kanta Kumar<sup>1</sup>, Andrew Filer<sup>1,11</sup>, Jacqueline Detert<sup>2</sup>, Hans Bastian<sup>2</sup>, Gerd R. Burmester<sup>2</sup>, Prodromos Sidiropoulos<sup>3</sup>, Eleni Kteniadaki<sup>3</sup>, Argyro Repa<sup>3</sup>, Tore Saxne<sup>4</sup>, Carl Turesson<sup>4</sup>, Herman Mann<sup>5</sup>, Jiri Vencovsky<sup>5</sup>, Anca Catrina<sup>6</sup>, Aikaterini Chatzidionysiou<sup>6</sup>, Aase Hensvold<sup>6</sup>, Solbritt Rantapää-Dahlqvist<sup>7</sup>, Alexa Binder<sup>8</sup>, Klaus Machold<sup>8</sup>, Brygida Kwiakowska<sup>9</sup>, Adrian Ciurea<sup>10</sup>, Giorgio Tamborrini<sup>10</sup>, Diego Kyburz<sup>10</sup>, Christopher D Buckley<sup>1,11</sup>

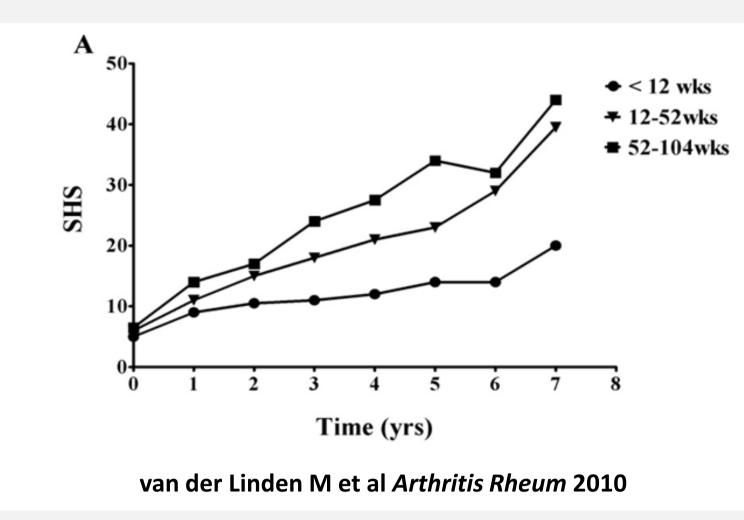
<sup>1</sup> Rheumatology Research Group, MRC Centre for Immune Regulation, Berlin, Berlin, Berlin, Germany. UK. Pepartment of Rheumatology and Clinical Immunology, Charité - Universitätsmedizin Berlin, Berlin, Berlin, Berlin, Berlin, Germany. UK. Pepartment of Rheumatology, Charité - University of Birmingham, UK. Pepartment of Rheumatology, Charité - University of Birmingham, UK. Pepartment of Rheumatology, Charité - University of Birmingham, UK. Pepartment of Rheumatology, Charité - University of Birmingham, UK. Pepartment of Rheumatology, Charité - University of Birmingham, UK. Pepartment of Rheumatology, Ist Medical Enculty, Charles University, Prague, Czech Republic. Rheumatology, Iniversity Hospital, Solna, Sweden. Rheumatology, University Hospital, Umeå, Sweden. Rheumatology, University Hospital Surich, Switzerland. UK.

1 Department of Rheumatology, University Hospital Surich, Switzerland. NHS Foundation Trust, Birmingham, UK.

### Background

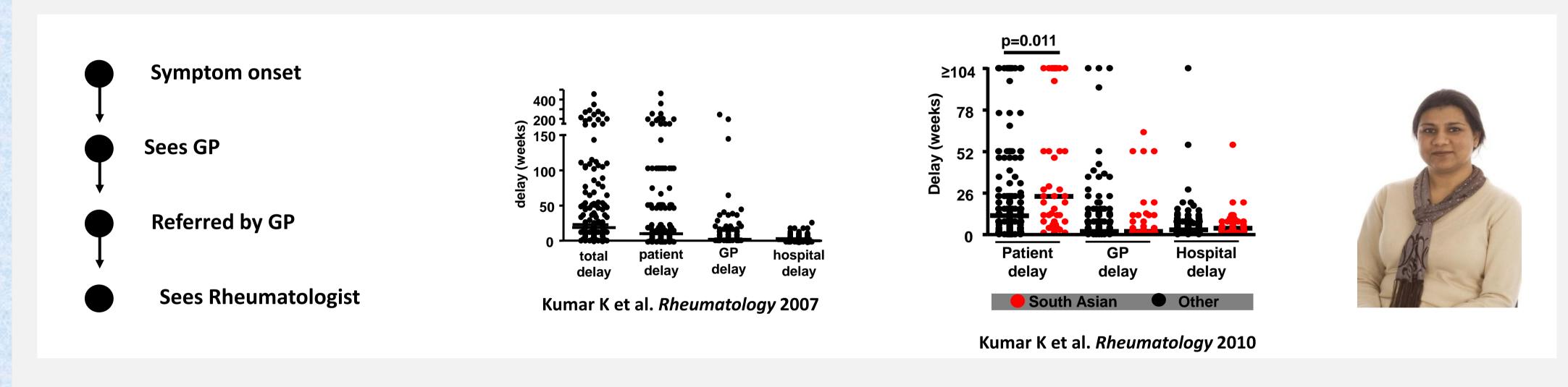
1. Delay in the institution of therapy is associated with worse outcomes in patients with RA:



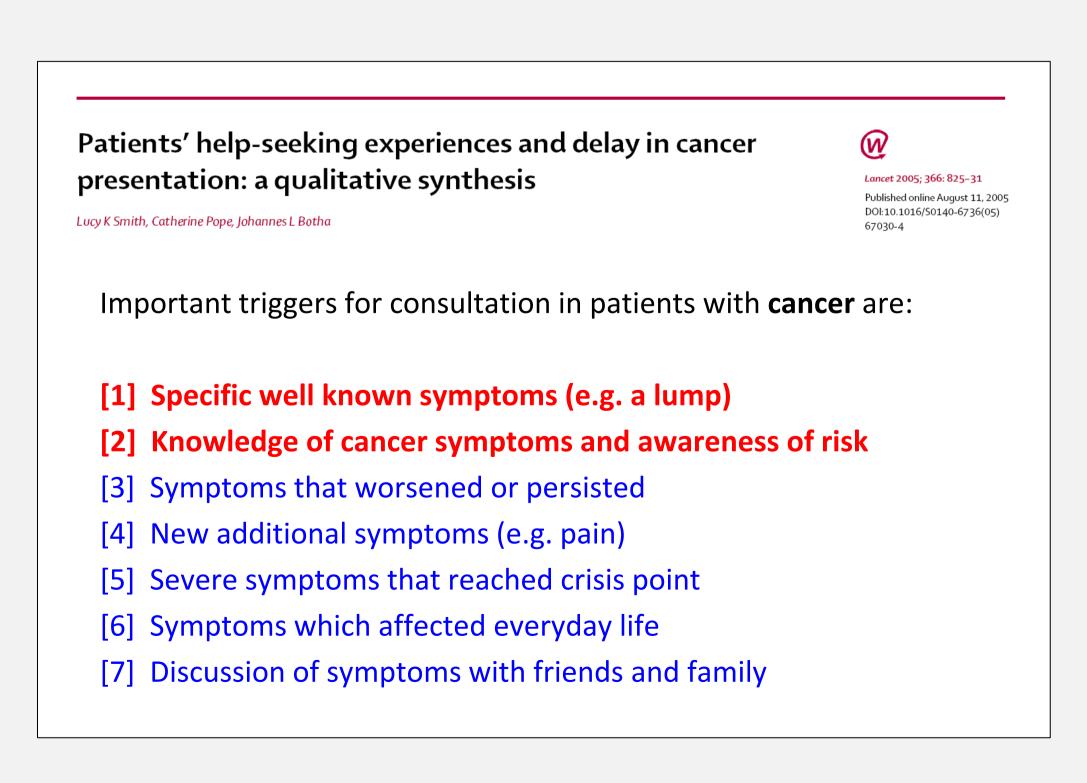




2. Delay on the part of patients in consulting their GPs is an important factor explaining delays in assessment by Rheumatologists in the UK:



### 3. Drivers for help seeking in patients with arthritis in the UK



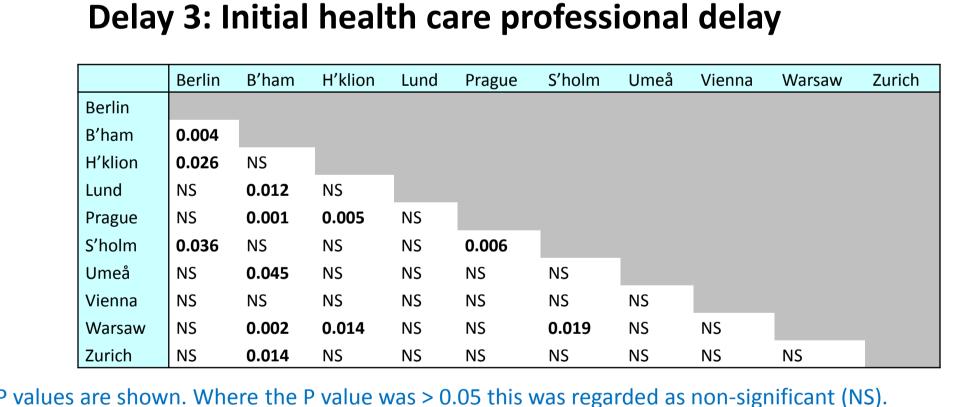
Rheumatology 2008;47:1577–1582 Advance Access publication 18 August 2008	doi:10.1093/rheumatology/ken304
I just thought it was normal aches and decision-making processes in patients with	
J. Sheppard <sup>1,*</sup> , K. Kumar <sup>1,2,*</sup> , C. D. Buckley <sup>1,2</sup> , K. L. Sha	•
Important triggers for consultation in p	atients with <b>RA</b> are:
[1] Specific well known symptoms	
[2] Knowledge of arthritis symptoms a	and awareness of risk
[3] Symptoms that worsened or persist	ted
[4] New additional symptoms (e.g. pair	n)
[5] Severe symptoms that reached cris	is point
[6] Symptoms which affected everyday	' life
[7] Discussion of symptoms with friend	s and family

# Delay 1 Delay 2 Delay 3 Referred by initial HCP Delay 4 Sees Rheumatologist

	Berlin	B'ham	H'klion	Lund	Prague	S'holm	Umeå	Vienna	Warsaw	Zuric
Total number of patients	50	50	42	48	50	55	50	38	50	49
Age (years; median (IQR))	44 (35-59)	55 (44-69)	53 (43-62)	58 (45-68)	56 (40-60)	59 (44-68)	55 (42-67)	56 (47-66)	55 (47-62)	53 (36-6
Gender (female; number (%)) nitial HCP (number (%))	35 (70)	33 (66)	36 (86)	35 (73)	35 (70)	39 (71)	36 (72)	29 (76)	41 (82)	37 (7
GP	26 (52)	49 (98)	2 (5)	46 (96)	35 (70)	49 (89)	47 (94)	25 (66)	36 (72)	46 (9
Rheumatologist	2 (4)	0	12 (29)	0	4 (8)	0	0	1 (3)	7 (14)	0
nternist	2 (4)	0	9 (21)	0	1 (2)	3 (5)	0	1 (3)	3 (6)	1 (2
Company health service	0	0	0	0	0	1 (2)	3 (6)	0	0	0
Orthopaedic surgeon	13 (26)	0	19 (45)	0	9 (18)	1 (2)	0	8 (21)	2 (4)	1 (2
Emergency department	5 (10)	1 (2)	0	0	0	0	0	1 (3)	0	0
Neurologist	0	0	0	0	0	0	0	0	1 (2)	0
Not recorded / other	2 (4)	0	0	2 (4)	1 (2)	1 (2)	0	2 (5)	1 (2)	1 (2
Levels of delay (weeks; median (IQR))										
Delay 1	2 (1-8)	12 (3-64) <sup>b</sup>	22 (8-72)	8 (4-8)	8 (2-12)	4 (2-8)	8 (2-17)	2 (1-10)	4 (1-8)	8 4-13
Delay 2 #	2 (1-4)	1 (<1-1) <sup>b</sup>	12 (6-63)	2 (1-2)	<1 (<1-2)	1 (<1-2)	1 (<1-2)	<1 (<1 - 1) <sup>b</sup>	2 (1-8)	1 (1-2
Delay 3 *	10 (3-23)	2 (1-5) <sup>b</sup>	3 (<1-4)	8 (4-12)	10 (3-52)	2 (1-8)	8 (2-20)	8 (2-26)	12 (2-48)	8 (4-1
Delay 4	11 (4-14)	4 (2-6)	4 (<1-8)	3 (2-4)	4 (2-8)	3 (2-4)	4 (2-5)	1 (1-2)	4 (1-8)	2 (1-3
Total delay (weeks; median (IQR))ª	27 (19-43)	21 (13-63) <sup>c</sup>	38 (16-192)	22 (15-32)	25 (12-77)	16 (9-27)	25 (14-53)	16 (7-65) <sup>b</sup>	35 (14-74)	20 (13-3
Patients seen ≤ 12 weeks after symptom onset (number (%)) a	5 (10)	9(19)	6 (14)	4 (8)	14 (28)	23 (42)	7 (14)	14 (38)	11 (22)	11 (2

#where initial HCP was a Rheumatologist, data on this aspect of delay is included under Delay 4. \* No data for this variable if initial HCP of contact was a Rheumatologist. a calculated for patients for whom data on delay at all levels were available. b data on this variable not available for one patient. c data on this variable not available for two patients.

### **Results 2:** Comparisons between centres for each level of delay



## Results 3: Comparisons within each centre between the four levels of delay

	Berlin	B'ham	H'klion	Lund	Prague	S'holm	Umeå	Vienna	Warsaw	Zurich	
Friedman p value	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	<0.001	The Friedman test was used to compare the different levels of delay at each centre.  A post hoc test was used to
Comparisons between pairs of delays											compare pairs of levels of
1 v 2 (1 > 2)	NS	< 0.001	NS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	NS	< 0.001	delay. P values are shown.
1 v 3 (1 > 3, except black)	< 0.001	< 0.005	< 0.001	NS	NS	NS	NS	NS	NS	NS	Where the P value was > 0.05
1 v 4 (1 > 4, except black)	< 0.001	<0.025	< 0.001	< 0.001	NS	NS	NS	NS	NS	< 0.001	this was regarded as non-
2 v 3 (3 > 2, except black)	<0.001	<0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	NS	< 0.001	significant (NS).
2 v 4 (4 > 2, except black)	< 0.001	< 0.001	< 0.001	NS	< 0.001	< 0.001	< 0.001	<0.025	NS	NS	
3 v 4 (3 > 4)	NS	NS	NS	< 0.001	NS	NS	NS	< 0.01	<0.025	< 0.001	

### Conclusions

- This research highlights the contribution of patients, professionals and health systems to treatment delay for patients with RA in Europe.
- Although some centres have strengths in minimising certain types of delay, interventions are required in all centres to ensure timely treatment for patients.

### Future directions in the UK

NIHR Research for Patient Benefit funded DELAY study to investigate extent of and reasons underlying delay in presentation to primary care in patients with inflammatory arthritis.

For more information contact:

Rebecca Stack; r.stack@bham.ac.uk





# AutoCure - curing autoimmune rheumatic diseases