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VERSUS ARTHRITIS | centre for musculoskeletal health & work

UKRI Medical Research Council

British Society for Rheumatology
Psoriatic Arthritis Register

Key finding

Biological treatments, better physical health and fibromyalgia symptoms are associated with reduced work impairment in people with Psoriatic Arthritis

Objective

To determine factors associated with employment and predictors of future absence and work impairment among people with PsA.
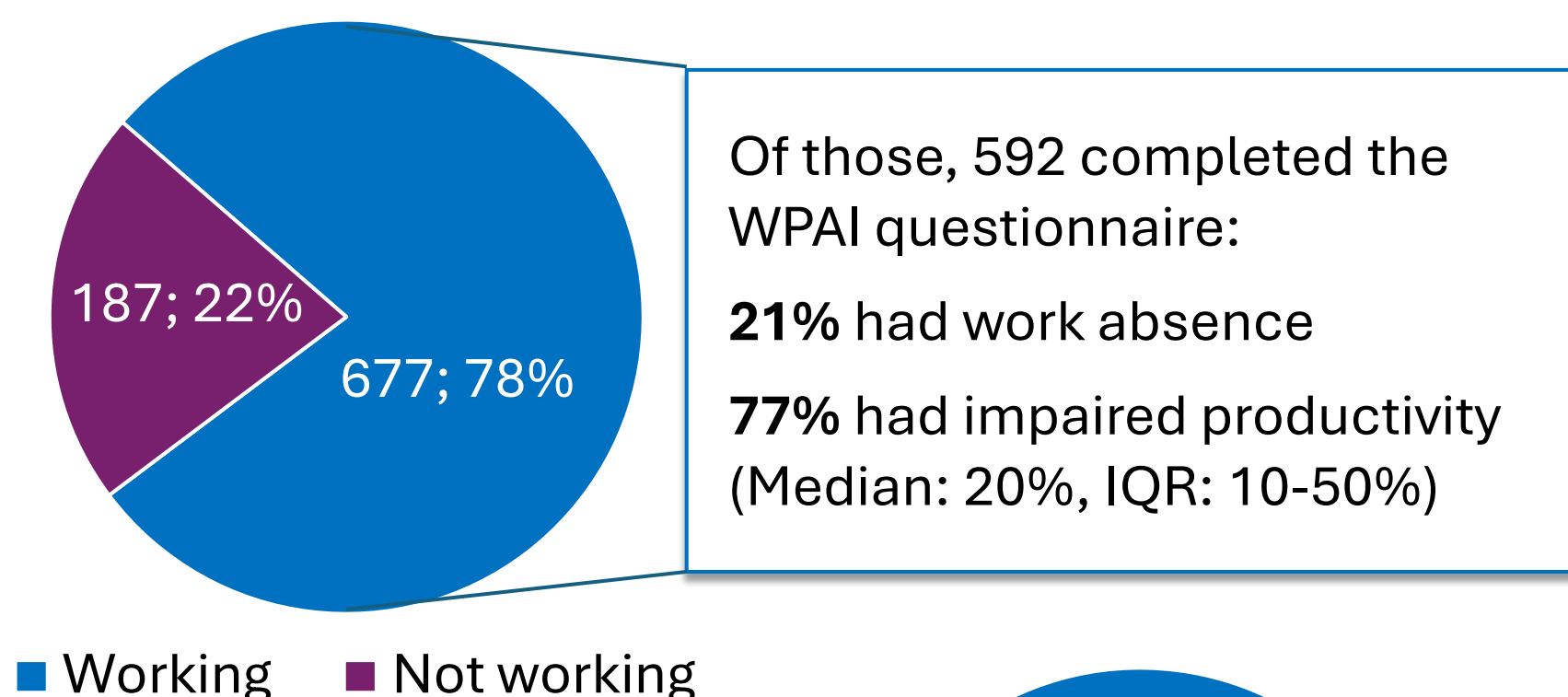
Methods

Data: BSR-PsA register - Jan 2024 data release; Participants of working age who provided work information

Outcomes: work status (yes/no), work absence (yes/no) & impaired productivity (% work time impaired)
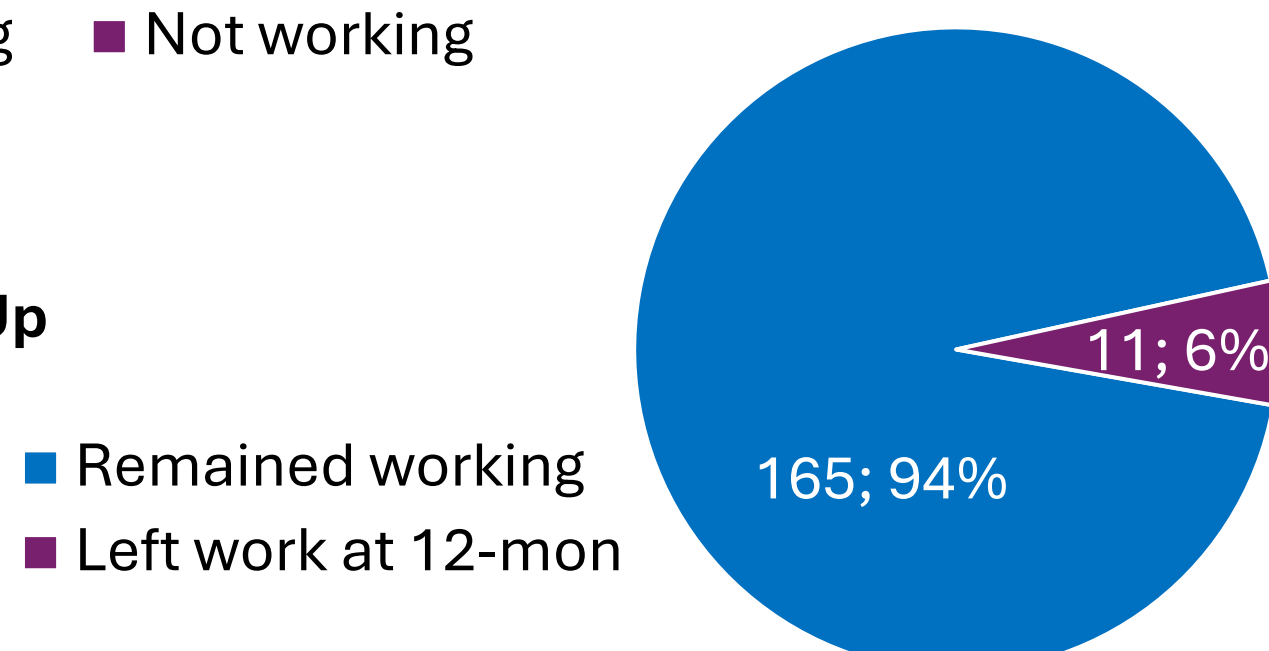
Explanatory variables: personal factors, work characteristics, disease activity measures, health-related measures, treatment

Analyses: • Descriptive • Logistic regression • Generalized estimating equation models • Forward stepwise regressions
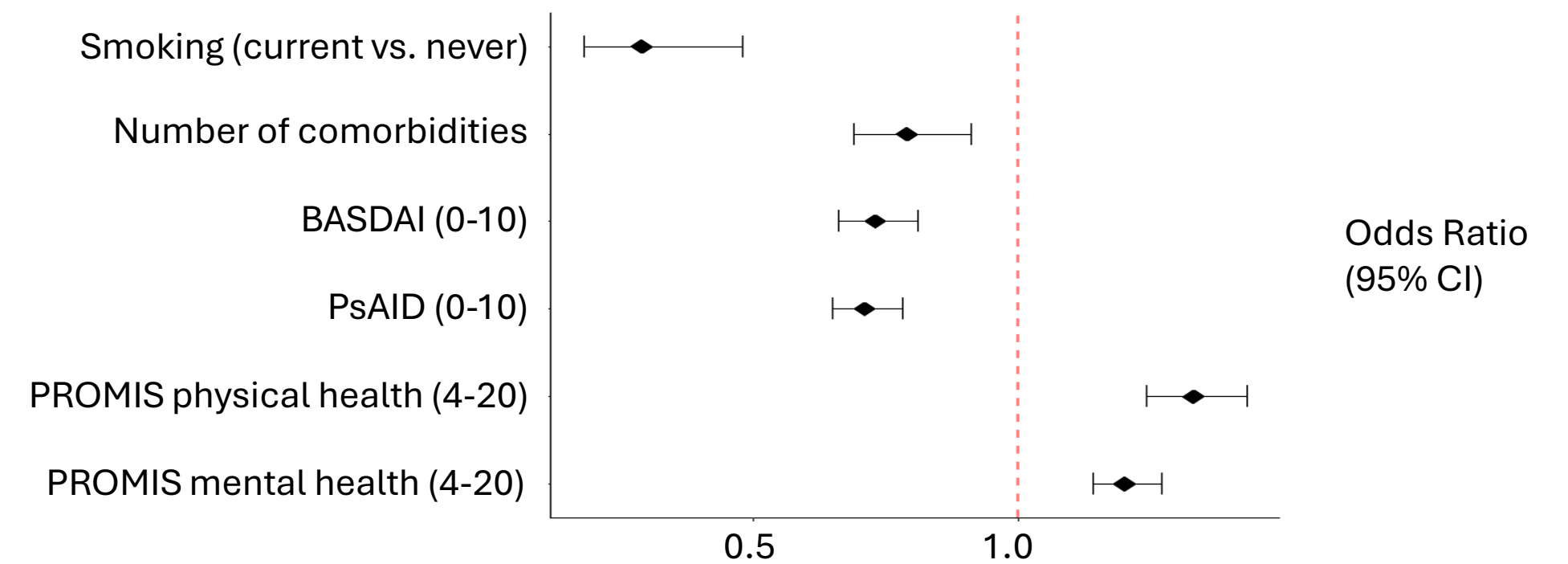
Baseline

Of those, 592 completed the WPAI questionnaire:

21% had work absence

77% had impaired productivity (Median: 20%, IQR: 10-50%)

187; 22%
677; 78%

■ Working ■ Not working

12-month Follow-Up

11; 6%
165; 94%

■ Remained working
■ Left work at 12-mon

Likelihood of working at baseline

Smoking (current vs. never)
Number of comorbidities
BASDAI (0-10)
PsAID (0-10)
PROMIS physical health (4-20)
PROMIS mental health (4-20)

Odds Ratio (95% CI)

0.5   1.0

Predictors of work ABSENCE at 12-month follow-up

	Any absence, OR [95% CI]	
	Univariable model	Multivariable model
Commencing biologics	1.45 [0.57, 3.67]	
Physically demanding work	1.31 [0.49, 3.47]	
Driving as part of work	0.37 [0.11, 1.29]	
Smoking status (ref: Never)		
Ex	1.62 [0.61, 4.31]	
Current	4.35 [0.64, 29.5]	
(WPAI) % Activity impairment (0-100)	1.06 [1.04, 1.09]	1.05 [1.02,1.07]
Number of comorbidities	1.44 [0.91, 2.30]	
Jenkins sleep scale (0-10)	1.15 [1.05, 1.27]	
BASDAI (0-10)	1.80 [1.37, 2.36]	
PSD scale (0-31)	1.29 [1.16, 1.43]	1.14 [1.00,1.30]
PsAID (0-10)	1.96 [1.49, 2.60]	
(PROMIS) Physical health (4-20)	0.58 [0.47, 0.73]	
(PROMIS) Mental health (4-20)	0.69 [0.58, 0.82]	
(PROMIS) Fatigue health (8-40)	1.16 [1.09, 1.24]	

Predictors of work IMPAIRMENT at 12-month follow-up

	Percent work impairment, β(t-stat)	
	Univariable model	Multivariable model
Commencing biologics	5.30 (3.04)	-6.38 (3.13)
Physically demanding work	6.69 (3.46)	
Driving as part of work	-1.36 (3.32)	
Smoking status (ref: Never)		
Ex	3.04 (3.69)	
Current	17.89 (8.23)	
(WPAI) % Activity impairment (0-100)	0.37 (0.05)	0.18 (0.07)
Number of comorbidities	3.98 (1.65)	
Jenkins sleep scale (0-10)	1.34 (0.29)	
BASDAI (0-10)	4.28 (0.61)	
PSD scale (0-31)	1.83 (0.27)	
PsAID (0-10)	4.61 (0.59)	
(PROMIS) Physical health (4-20)	-3.45 (0.45)	-1.97 (0.75)
(PROMIS) Mental health (4-20)	-2.30 (0.42)	
(PROMIS) Fatigue health (8-40)	1.15 (0.17)	0.41 (0.23)