





centre for musculoskeletal health & work

Key finding

b/ts DMARD therapy, better physical health, low levels of fatigue & fibromyalgia-like symptoms, are associated with future ability to work in people with PsA

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Predictors of work impairment and absence amongst people with psoriatic arthritis (PsA): Evidence from the British Society for Rheumatology PsA **Register (BSR-PsA)**

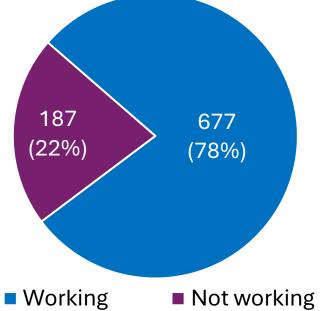
Data:

- BSR-PsA register (Jan 2024 data release)
- **Outcomes:**
- **Analyses:**

Baseline:

864 participants with PsA

	Working	Not working		
Age (median), years	47	52		
Female	52%	69%		
Time since diagnosis, years	4	5		
Commencing b/tsDMARD	36%	42%	V	



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	l health (4-20)	

0.5

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Predictors of work outcomes at 12 months: univariable GEE

		Any absence: OR [95% CI]	Work impairment: β (t-stat)
Commencing b/tsDMARD	Yes vs No	1.45 [0.57, 3.67]	5.30 (3.04)
Physically demanding work	Yes vs No	1.31 [0.49, 3.47]	6.69 (3.46)
Driving as part of work	Yes vs No	0.37 [0.11, 1.29]	-1.36 (3.32)
Smoking status	Never (reference)		
	Ex	1.62 [0.61, 4.31]	3.04 (3.69)
	Current	4.35 [0.64, 29.5]	17.89 (8.23)
(WPAI) Activity impairment	0 to 100%	1.06 [1.04, 1.09]	0.37 (0.05)
Number of comorbidities	0 to 6	1.44 [0.91, 2.30]	3.98 (1.65)
Jenkins sleep scale	0 (good) to 20 (poor)	1.15 [1.05, 1.27]	1.34 (0.29)
(BASDAI) disease activity	0 (low) to 10 (high)	1.80 [1.37, 2.36]	4.28 (0.61)
Polysymptomatic Distress Scale	0 (low) to 31 (high)	1.29 [1.16, 1.43]	1.83 (0.27)
(PsAID)PsA Impact of Disease	0 (low) to 10 (high)	1.96 [1.49, 2.60]	4.61 (0.59)
(PROMIS) Physical health	4 (poor) to 20 (good)	0.58 [0.47, 0.73]	-3.45 (0.45)
(PROMIS) Mental health	4 (poor) to 20 (good)	0.69 [0.58, 0.82]	-2.30 (0.42)
(PROMIS) Fatigue	8 (good) to 40 (poor)	1.16 [1.09, 1.24]	1.15 (0.17)

Potential predictors with less than 5% missing data were evaluated in the univariable models adjusted for age,

0.41 (0.23)

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Independent predictors of work outcomes at 12 months: multivariable models Any absence: OR [95% CI] Work impairment: β (t-stat) -6.38 (3.13) 1.05 [1.02,1.07] 0.18 (0.07) 1.14 [1.00,1.30] -1.97 (0.75)

Commencing b/tsDMARD	Yes vs No
(WPAI) Activity impairment	0 to 100%
Polysymptomatic Distress Scale	0 (low) to 31 (high)
(PROMIS) Physical health	4 (poor) to 20 (good)
(PROMIS) Fatigue	8 (good) to 40 (poor)
N	



* Candidate variables reaching a significance threshold of p<0.2 in the univariable analysis were offered to a forward stepwise regression. Age, sex, and deprivation were forced into prediction

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• Work status (yes/no) • Work absence (yes/no) • Impaired productivity (% work time impaired) • Descriptive • Logistic regression • GEE models (multivariable: forward stepwise)

592 completed the WPAI questionnaire:

- 21% had work absence
- 77% had impaired productivity (Median: 20% IQR: 10-50%)

176 provided data at 12-month follow-up:

• **11 (6.3%)** reported leaving work

