

Supplemental Table 3: Clinical and demographic variables integrated in machine learning models

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Sex	RF
Age	Anti-CCP
Weight (kg)	CRP
Height (m)	Methotrexate use
BMI	Methotrexate dose
Menopausal status	DMARD (other) use
Smoking (no, active, past)	DMARD name
Alcohol (no, active, past)	Biologics use
Serum 25OH-VitD	Biologics name
Morning stiffness	Prednisone use
SJC66	Prednisone dose
TJC68	regular NSAID use
HAQ	Osteoporosis treatment (Biphosphonate, denosumab) use
DAS28	Osteoporosis treatment (Biphosphonate, denosumab) name
	Calcium-vitamin D use