

S1. ICD-9-CM code used for diagnosis in the current study.

Variable	Code
Disease	
Depressive disorders	296.2, 296.3, 300.4, 311
Bipolar disorder	A code: A212; ICD-9-CM codes: 296.0, 296.1, 296.4, 296.5, 296.6, 296.7, 296.80, 296.89
Main outcomes	
Rotator cuff tear	726.1, 727.61, 840.4
Rotator cuff repair surgery	64121B, 64122B (Taiwan NHI procedure code)
MRI	33084B, 33085B (Taiwan NHI procedure code)
Ultrasonography	19005B, 19007B (Taiwan NHI procedure code)
Comorbidities	
Autoimmune disease	
SLE	710.xx
Rheumatoid arthritis	714.xx
Cancer	140.xx–209.xx, 230.xx-239.xx
Diabetes mellitus	250.xx, 251.xx
Gouty arthritis	274.xx
Hypertension	401.xx–405.xx
Hyperlipidemia	272.xx
Ischemic heart disease	410.xx–413.xx, 414.0x, 414.2x, 414.8x, 414.9x, 429.2x
Obesity	278.0x