

Table 1: Definition of Autoimmune diseases

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$\zeta$ = 1 admission (ICD-10 codes as below) OR  $\zeta$ = 2 physician claims (ICD-9 codes as below)

Disease	ICD9 codes		ICD10 codes
	Physician claims	Hospital data	

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Pernicious anemia	281	281.0	D51.0
Autoimmune hemolytic anemia	283	283.0	D59.1
Ankylosing spondylitis	720	720.0	M45

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