

## Data Supplement

Table S1 List of TNF- $\alpha$  inhibitors in this study

TNF- $\alpha$ inhibitor	Brand name drug	Year of introduction in Japan
Infliximab	Remicade <sup>®</sup>	2002
Etanercept	Enbrel <sup>®</sup>	2005
Adalimumab	Humira <sup>®</sup>	2008
Golimumab	Simponi <sup>®</sup>	2011
Certolizumab pegol	Cimzia <sup>®</sup>	2013

TNF, tumor necrosis factor.

Adalimumab was used in the market as Humia<sup>®</sup> (40 mg/1.8mL) between 2008 and 2017, and has been used as Humira<sup>®</sup> (40 mg/0.4 mL) since 2016.