

Budget impact analysis of sarilumab for the treatment of rheumatoid arthritis in patients with an inadequate response to conventional synthetic DMARD or TNF inhibitor therapies [Corrigendum]

Ferrufino CP, Munakata J, Wei W, et al. *Clinicoecon Outcomes Res.* 2018;10: 805—819.

On page 817, Table S2, the monitoring costs for (A) csDMARD-IR and (B) TNF-IR were changed. The updated table is as follows:

On page 810, Table 4, Drug costs column, Methotrexate, the Unit WAC was listed as \$1 however it should have been \$2.36. The updated table is as follows:

Table 4 Drug cost summary

Drug costs	Dose	Package size	WAC	Unit WAC	Annual cost ^a	Annual price increase ^b	Net WAC with ICER specified discounts ^c
Non-TNFi biologics							
Abatacept (SC)	125.0 mg	4 syringes	\$4,131	\$1,033	\$57,359	13.5%	\$2892
Abatacept (IV)	250.0 mg	1 vial	\$1,046	\$1,046	\$49,906	13.5%	\$732
Rituximab (IV)	100.0 mg	1 vial	\$835	\$835	\$50,863	5.0%	\$710
Sarilumab (SC)	150.0 mg	2 syringes	\$3,159	\$1,580	\$43,317	5.3%	\$2,527
Sarilumab (SC)	200.0 mg	2 syringes	\$3,159	\$1,580	\$41,208	5.3%	\$2,527
Tocilizumab (SC)	162.0 mg	1 syringe	\$985	\$985	\$40,117	8.4%	\$788
Tocilizumab (IV)	80.0 mg	1 vial	\$417	\$417	\$39,038	6.3%	\$333
TNFi biologics							
Adalimumab (SC)	40.0 mg	6 pens	\$14,616	\$2,436	\$73,542	14.9%	\$10,231
Certolizumab pegol (SC)	200.0 mg	3 syringe kits	\$12,132	\$4,044	\$68,232	9.9%	\$8,493
Etanercept (SC)	50.0 mg	4 syringes	\$4,872	\$1,218	\$59,953	16.4%	\$3,410
Golimumab (SC)	50.0 mg	1 syringe	\$4,520	\$4,520	\$68,955	14.5%	\$3,164
Golimumab (IV)	50.0 mg	1 vial	\$1,734	\$1,734	\$59,952	14.5%	\$1,213
Infliximab (IV)	100.0 mg	1 vial	\$1,168	\$1,168	\$37,228	8.3%	\$817
Infliximab (IV) biosimilar	100.0 mg	1 vial	\$889	\$889	\$28,332	8.3%	\$622
JAK inhibitors							
Tofacitinib (Oral)	5.0 mg	60 tablets	\$4,099	\$63	\$46,213	15.5%	\$3,891
csDMARDs							
Methotrexate	2.5 mg	100 tablets	\$236	\$2.36	\$1,139	0.0%	Not applicable
Concomitant medication:							
Prednisone	10.0 mg	1 tablet	\$0.19	\$0.19	\$69	0.0%	Not applicable

Notes: ^aAssuming full compliance, no fees, discounts or any patient out of pocket contributions. ^bBased on the compound annual growth rate for drug prices between January 2013 to January 2016. ^cDiscounts: TNFi: 30%, CD-20 directed cytolytic antibody: 15%, T-cell inhibitors: 30%, IL-6 inhibitors: 20%, JAK inhibitors: 5%.

Abbreviations: csDMARD, conventional synthetic disease-modifying antirheumatic drug; IV, intravenous; JAK, janus kinase; SC, subcutaneous; TNFi, tumor necrosis factor inhibitor; WAC, wholesale acquisition cost.

Table S2 Budget impact by cost metric in years 1–5, in (A) csDMARD-IR, (B) TNF-IR populations, (C) combination (pooled csDMARD-IR and TNF-IR), and (D) monotherapy (csDMARD-IR or TNF-IR)

Cost by metric	Year 1	Year 2	Year 3	Year 4	Year 5	Years 1–5
(A) csDMARD-IR						
DMARDs						
Base-case	\$20,254,095	\$20,824,169	\$21,474,496	\$22,205,356	\$23,026,048	\$107,784,164
Projected	\$20,226,459	\$20,764,870	\$21,378,464	\$22,066,321	\$22,836,306	\$107,272,419
Net	–\$27,636	–\$59,299	–\$96,033	–\$139,035	–\$189,742	–\$511,744
Administration						
Base-case	\$223,299	\$223,756	\$224,254	\$224,677	\$224,996	\$1,120,982
Projected	\$222,182	\$221,518	\$220,890	\$220,184	\$219,371	\$1,104,146
Net	–\$1,116	–\$2,238	–\$3,364	–\$4,494	–\$5,625	–\$16,836
Concomitant medications						
Base-case	\$8,699	\$8,717	\$8,736	\$8,752	\$8,765	\$43,668
Projected	\$8,696	\$8,712	\$8,729	\$8,743	\$8,753	\$43,634
Net	–\$3	–\$5	–\$7	–\$9	–\$12	–\$35
Monitoring						
Base-case	\$61,176	\$61,301	\$61,438	\$61,554	\$61,641	\$307,110
Projected	\$61,321	\$61,593	\$61,876	\$62,139	\$62,373	\$309,302
Net	\$145	\$291	\$438	\$585	\$732	\$2,192
Total costs						
Base-case	\$20,547,268	\$21,117,943	\$21,768,924	\$22,500,339	\$23,321,449	\$109,255,924
Projected	\$20,518,659	\$21,056,693	\$21,669,959	\$22,357,386	\$23,126,803	\$108,729,500
Net	–\$28,610	–\$61,249	–\$98,965	–\$142,953	–\$194,646	–\$526,424
(B) TNF-IR						
DMARDs						
Base-case	\$15,608,855	\$16,031,438	\$16,510,886	\$17,046,450	\$17,644,182	\$82,841,812
Projected	\$15,592,910	\$15,996,734	\$16,453,889	\$16,962,801	\$17,528,531	\$82,534,865
Net	–\$15,945	–\$34,705	–\$56,997	–\$83,649	–\$115,651	–\$306,948
Administration						
Base-case	\$228,199	\$228,667	\$229,176	\$229,608	\$229,934	\$1,145,585
Projected	\$227,058	\$226,380	\$225,738	\$225,016	\$224,186	\$1,128,379
Net	–\$1,141	–\$2,287	–\$3,438	–\$4,592	–\$5,748	–\$17,206
Concomitant medications						
Base-case	\$7,206	\$7,220	\$7,236	\$7,250	\$7,260	\$36,173
Projected	\$7,204	\$7,218	\$7,233	\$7,245	\$7,254	\$35,154
Net	–\$2	–\$2	–\$3	–\$5	–\$6	–\$9
Monitoring						
Base-case	\$55,731	\$55,846	\$55,970	\$56,075	\$56,155	\$279,777
Projected	\$55,833	\$56,050	\$56,277	\$56,485	\$56,668	\$281,313
Net	\$102	\$204	\$307	\$410	\$513	\$1,536
Total costs						
Base-case	\$15,899,992	\$16,323,171	\$16,803,268	\$17,339,384	\$17,937,532	\$84,303,347
Projected	\$15,883,006	\$16,286,381	\$16,743,137	\$17,251,548	\$17,816,639	\$83,980,711
Net	–\$16,986	–\$36,790	–\$60,131	–\$87,837	–\$120,893	–\$322,637
(C) Combination therapy (pooled csDMARD-IR and TNF-IR)						
DMARDs						
Base-case	\$36,177,639	\$37,182,732	\$38,327,255	\$39,610,950	\$41,049,549	\$192,348,125
Projected	\$36,132,484	\$37,085,458	\$38,169,098	\$39,381,082	\$40,734,673	\$191,502,794
Net	–\$45,155	–\$97,274	–\$158,157	–\$229,868	–\$314,876	–\$845,331
Administration						
Base-case	\$442,973	\$443,881	\$444,869	\$445,708	\$446,340	\$2,223,771
Projected	\$440,758	\$439,442	\$438,196	\$436,794	\$435,182	\$2,190,372
Net	–\$2,215	–\$4,439	–\$6,673	–\$8,914	–\$11,159	–\$33,399

(Continued)

Table S2 (Continued)

Cost by metric	Year 1	Year 2	Year 3	Year 4	Year 5	Years 1–5
Concomitant medications						
Base-case	\$15,932	\$15,965	\$16,000	\$16,031	\$16,053	\$79,981
Projected	\$15,929	\$15,957	\$15,989	\$16,016	\$16,035	\$79,925
Net	–\$3	–\$8	–\$11	–\$15	–\$19	–\$56
Monitoring						
Base-case	\$116,023	\$116,260	\$116,519	\$116,739	\$116,905	\$582,446
Projected	\$116,274	\$116,765	\$117,277	\$117,752	\$118,172	\$586,240
Net	\$252	\$504	\$758	\$1,013	\$1,262	\$3,794
Total costs						
Base-case	\$36,752,567	\$37,758,838	\$38,904,643	\$40,189,428	\$41,628,848	\$195,234,324
Projected	\$36,705,445	\$37,657,622	\$38,740,560	\$39,951,644	\$41,304,062	\$194,359,332
Net	–\$47,122	–\$101,216	–\$164,083	–\$237,784	–\$324,786	–\$874,992
Cost by metric	Year 1	Year 2	Year 3	Year 4	Year 5	Years 1–5
(D) Monotherapy (csDMARD-IR or TNF-IR)						
DMARDs						
Base-case	\$10,746,634	\$11,047,944	\$11,391,063	\$11,775,969	\$12,207,397	\$57,169,007
Projected	\$10,732,920	\$11,018,425	\$11,343,110	\$11,706,334	\$12,112,089	\$56,912,879
Net	–\$13,714	–\$29,518	–\$47,952	–\$69,635	–\$95,308	–\$256,127
Administration						
Base-case	\$132,892	\$133,164	\$133,461	\$133,712	\$133,902	\$667,131
Projected	\$132,228	\$131,833	\$131,459	\$131,038	\$130,555	\$657,112
Net	–\$664	–\$1,332	–\$2,002	–\$2,674	–\$3,348	–\$10,020
Concomitant medications						
Base-case	\$4,780	\$4,789	\$4,800	\$4,809	\$4,816	\$23,994
Projected	\$4,779	\$4,787	\$4,797	\$4,805	\$4,810	\$23,978
Net	–\$1	–\$2	–\$3	–\$4	–\$6	–\$17
Monitoring						
Base-case	\$5,902	\$5,914	\$5,927	\$5,938	\$5,947	\$29,628
Projected	\$6,025	\$6,161	\$6,298	\$6,434	\$6,567	\$31,486
Net	\$123	\$247	\$371	\$496	\$621	\$1,858
Total costs						
Base-case	\$10,890,208	\$11,191,811	\$11,535,251	\$11,920,429	\$12,352,061	\$57,889,760
Projected	\$10,875,951	\$11,161,206	\$11,485,664	\$11,848,611	\$12,254,022	\$57,625,454
Net	–\$14,256	–\$30,605	–\$49,586	–\$71,818	–\$98,040	–\$264,306

Abbreviations: csDMARD, conventional synthetic disease-modifying antirheumatic drug; DMARD, disease-modifying antirheumatic drug; IR, inadequate response; TNF, tumor necrosis factor inhibitor.

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