



Subject: Benlysta (Belimumab)*

Effective Date: February 26, 2013

Department: Utilization Management

Policy: Injectable belimumab (**J0490**) is reimbursable under plans administered by QualCare, Inc. when eligible member benefit is in place and medical necessity exists.

Objective: To assure consistent reimbursement for injectable belimumab as a medically necessary service and to delineate criteria that provides evidence of that medical necessity.

Procedure:

Definition: Belimumab is an injectable, intravenously infused, monoclonal antibody that neutralizes BlyS family of ligands, thus blocking a crucial survival signals in early B-cell development.

Requests for coverage of injectable belimumab must be applied against all of the following criteria.

1. The member is age 18 years or older with a diagnosis of active systemic lupus erythematosus (SLE), (**ICD code 710.0**) (**ICD-10 M32.1, M32.10, M32.11, M32.12, M32.13, M32.14, M32.15, M32.19**) despite being on standard therapy(see medication classes below).
2. The documentation by laboratory report of a positive test for either anti-nuclear antibody (ANA) \geq 1:80, or anti-double stranded DNA (anti-dsDNA) \geq 30 IU/ml at some time during the illness.
3. The member is on one or more of the following class of medications:
 - ✓ Anti-malarials (ie plaquenil)
 - ✓ Corticosteroids
 - ✓ Immuno suppressives (ie immuran, cyclosporine)(excludes IV cyclophosphamide)

✓ Non-steroidal anti-inflammatory drugs

Medical necessity will be determined on a case by case basis considering current medical literature for members with any of the following:

- Severe central nervous system involvement
- Severe lupus nephritis (serum creatinine ≥ 2.5 ; Proteinuria ≥ 6 gms/24hrs)
- Requires hemodialysis
- On prednisone dose of > 100 mg /day
- On another biologic agent or IV cyclophosphamide

Note on authorization parameters- the standard recommended dosing for belimumab is 10mg/kg at 2 week intervals for three doses followed by the same dose at 4 week intervals. When the above medical necessity criteria are met authorization can be approved for yearly intervals.

References

Tunnicliffe DJ, Palmer SC, Henderson L, Masson P, et al. Immunosuppressive treatment for proliferative lupus nephritis. *Cochrane Database Syst Rev.* 2018;6:CD002922(Jun)

Letaief H, Lukas C, Barnetche T, Gaujoux-Viala C, Combe B, Morel J. Efficacy and safety of biological DMARDs modulating B cells in primary Sjögren's syndrome: Systematic review and meta-analysis. *Joint Bone Spine.* 2018;85(1):15-22(Jan)

Adamichou C, Georgakis G. Cytokine targets in lupus nephritis: Current and future prospects. *Clin Immunol.* 2018: S1521-6616(18)30280-8(Sep)

Sciascia S, Radin M, Yazdany J, Levy RA et al. Efficacy of belimumab on renal outcomes in patients with systemic lupus erythematosus: A systematic review. *Autoimmun Rev.* 2017;16(3):287-293(Mar)

Wei LQ, Liang YG, Zhao Y, Liang HT, Qin DC, She MC. Efficacy and Safety of Belimumab Plus Standard Therapy in Patients With Systemic Lupus Erythematosus: A Meta-analysis. *Clin Ther.* 2016;38(5):1134-40(May)

Jordan N, D'Cruz DP. Belimumab for the treatment of systemic lupus erythematosus. *Expert Rev Clin Immunol.* 2015;11(2):195-204(Feb)

Jin X, Ding C. Belimumab--an anti-BLyS human monoclonal antibody for rheumatoid arthritis. *Expert Opin Biol Ther.* 2013;13(2):315-22(Feb)

Merrill JT¹, Ginzler EM, Wallace DJ, McKay JD Long-term safety profile of belimumab plus standard therapy in patients with systemic lupus erythematosus. *Arthritis Rheum* 2012;64(10):3364-73(Oct)

Kim SS, Kirou KA, Erkan D. Belimumab in systemic lupus erythematosus: and update for clinicians. *Ther Adv in Chronic Dis.* 2012;3(1):11-23

Navarra, S.V., Guzman, R.M., Gallacher, A.E., Hall, S., Levy, R.A., Jimenez, R.E. et al. (2011) Efficacy and safety of belimumab in patients with active systemic lupus erythematosus: a randomized, placebo-controlled, phase 3 trial. *Lancet* 377: 721–731.

van Vollenhoven, R., Schwarting, A., Navarra, S., Roth, D., Zhong, Z., Cooper, S. et al. (2011) Durability of response in SLE patients treated with belimumab in the phase 3 BLISS-52 and BLISS-76 studies. *Ann Rheum Dis* 70(Suppl. 3): 321.

Cruz, D.D., Manzi, S., Sanchez-Guerrero, J., Merrill, J., Furie, R., Gladman, D. et al. (2011) Belimumab reduced disease activity across multiple organ domains in patients with SLE: combined results from BLISS-52 and BLISS-76. *Ann Rheum Dis* 70(Suppl. 3): 318.

Wallace, D., Navarra, S., Houssiau, F., Gallacher, A., Guzman, R., Thomas, M. et al. (2011) Safety profile of belimumab in patients with active systemic lupus erythematosus: pooled phase 2/3 data. *Ann Rheum Dis* 70 (Suppl. 3): 318.

Furie, R., Zamani, R., Wallace, O., Tegzova, D., Petri, D., Merrill, M. et al. (2010) Belimumab, a BlyS specific inhibitor, reduced disease activity and severe flares in seropositive SLE patients: BLISS-76 study results through wk 76. *Arthritis Rheum* 62(Suppl. 10):1454.

Wallace, D.J., Stohl, W., Furie, R.A., Lisse, J.R., McKay, J.D., Merrill, J.T. et al. (2009) A phase II, randomized, double-blind placebo-controlled, dose ranging study of belimumab in patients with active systemic lupus erythematosus. *Arthritis Rheum* 61: 1168–1178.

Petri, M., Stohl, W., Chatham, W., McCune, W.J., Chevrier, M., Ryel, J. et al. (2008) Association of plasma b lymphocyte stimulator levels and disease activity in systemic lupus erythematosus. *Arthritis Rheum* 58: 2453–2459.

Furie, R., Stohl, W., Ginzler, E.M., Becker, M., Mishra, N., Chatham, W. et al. (2008) Biologic activity and safety of belimumab, a neutralizing anti-Blymphocyte stimulator (BlyS) monoclonal antibody: a phase I trial in patients with systemic lupus erythematosus. *Arthritis Res Ther* 10: R109

Benlysta FDA Label- accessed online 02/13/13 at www.accessdata.fda.gov/drugsatfda_docs/label/2012/125370s016lbl.pdf

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*Consistent with Summary Plan Description (SPD). When there is discordance between this policy and the SPD, the provisions of the SPD prevail.