



If a conflict arises between a Clinical Payment and Coding Policy (“CPCP”) and any plan document under which a member is entitled to Covered Services, the plan document will govern. If a conflict arises between a CPCP and any provider contract pursuant to which a provider participates in and/or provides Covered Services to eligible member(s) and/or plans, the provider contract will govern. “Plan documents” include, but are not limited to, Certificates of Health Care Benefits, benefit booklets, Summary Plan Descriptions, and other coverage documents. BCBSNM may use reasonable discretion interpreting and applying this policy to services being delivered in a particular case. BCBSNM has full and final discretionary authority for their interpretation and application to the extent provided under any applicable plan documents.

Providers are responsible for submission of accurate documentation of services performed. Providers are expected to submit claims for services rendered using valid code combinations from Health Insurance Portability and Accountability Act (“HIPAA”) approved code sets. Claims should be coded appropriately according to industry standard coding guidelines including, but not limited to: Uniform Billing (“UB”) Editor, American Medical Association (“AMA”), Current Procedural Terminology (“CPT®”), CPT® Assistant, Healthcare Common Procedure Coding System (“HCPCS”), ICD-10 CM and PCS, National Drug Codes (“NDC”), Diagnosis Related Group (“DRG”) guidelines, Centers for Medicare and Medicaid Services (“CMS”) National Correct Coding Initiative (“NCCI”) Policy Manual, CCI table edits and other CMS guidelines.

Claims are subject to the code edit protocols for services/procedures billed. Claim submissions are subject to claim review including but not limited to, any terms of benefit coverage, provider contract language, medical policies, clinical payment and coding policies as well as coding software logic. Upon request, the provider is urged to submit any additional documentation.

## **General Inflammation Testing**

**Policy Number: CPCPLAB049**

**Version 1.0**

**Plan CMO Approval Date: July 27, 2022**

**Plan Effective Date: January 1, 2023**

### **Description**

BCBSNM has implemented certain lab management reimbursement criteria. Not all requirements apply to each product. Providers are urged to review Plan documents for eligible coverage for services rendered.

### **Reimbursement Information:**

1. Measurement of erythrocyte sedimentation rate (ESR) for patients with Hodgkin Lymphoma **may be reimbursable**.
2. Measurement of either C-Reactive Protein (CRP) or ESR in the diagnosis, assessment and monitoring of inflammatory disorders, and/or undiagnosed conditions, and/or to detect acute phase inflammation **may be reimbursable** (please see Note 1).

3. Concurrent measurement of CRP and ESR **may be reimbursable** in the diagnosis of periprosthetic joint infections (PJI).
4. For any condition other than PJI, measurement of both CRP and ESR, at the same visit, in the diagnosis, assessment and monitoring of inflammatory disorders, and/or undiagnosed conditions, and/or to detect acute phase inflammation **is not reimbursable**
5. Measurement of either CRP and/or ESR during general exam without abnormal findings **is not reimbursable**.

**NOTE 1:**

For policy regarding the use of CRP as a cardiac biomarker, please see policy CPCPLAB046 Cardiac Biomarkers for Myocardial Infarction.

## Procedure Codes

Codes
85651, 85652, 86140

## References:

AAOS. (2019). Diagnosis and Prevention of Periprosthetic Joint Infections Clinical Practice Guideline. Retrieved from <https://www.aaos.org/pjguideline>

Anderson, J., Caplan, L., Yazdany, J., Robbins Mark, L., Neogi, T., Michaud, K., . . . Kazi, S. (2012). Rheumatoid arthritis disease activity measures: American College of Rheumatology recommendations for use in clinical practice. *Arthritis Care & Research*, 64(5), 640-647. doi:10.1002/acr.21649

Aster, J. C., & Pozdnyakova, O. (2020, 06/11/2018). Epidemiology, pathologic features, and diagnosis of classic Hodgkin lymphoma. UpToDate. Retrieved from <https://www.uptodate.com/contents/epidemiology-pathologic-features-and-diagnosis-of-classic-hodgkin-lymphoma>

Barber, C. E. H., Zell, J., Yazdany, J., Davis, A. M., Cappelli, L., Ehrlich-Jones, L., . . . Michaud, K. (2019). 2019 American College of Rheumatology Recommended Patient-Reported Functional Status Assessment Measures in Rheumatoid Arthritis. *Arthritis Care Res (Hoboken)*, 71(12), 1531-1539. doi:10.1002/acr.24040

Berbari, E., Baddour, Larry, Chen, Antonia. (2020). Prosthetic joint infection: Epidemiology, microbiology, clinical manifestations, and diagnosis. Retrieved from [https://www.uptodate.com/contents/prosthetic-joint-infection-epidemiology-microbiology-clinical-manifestations-and-diagnosis?search=periprosthetic%20joint%20infection&source=search\\_result&selectedTitle=1~150&usage\\_type=default&display\\_rank=1#H2957426242](https://www.uptodate.com/contents/prosthetic-joint-infection-epidemiology-microbiology-clinical-manifestations-and-diagnosis?search=periprosthetic%20joint%20infection&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1#H2957426242)

Berbari, E., Mabry, T., Tsaras, G., Spangehl, M., Erwin, P. J., Murad, M. H., . . . Osmon, D. (2010). Inflammatory blood laboratory levels as markers of prosthetic joint infection: a systematic review and meta-analysis. *J Bone Joint Surg Am*, 92(11), 2102-2109. doi:10.2106/jbjs.I.01199

- Bernstein, J. A., Lang, D. M., Khan, D. A., Craig, T., Dreyfus, D., Hsieh, F., . . . Wallace, D. (2014). The diagnosis and management of acute and chronic urticaria: 2014 update. *J Allergy Clin Immunol*, 133(5), 1270-1277. doi:10.1016/j.jaci.2014.02.036
- Bingham, J. S., Hassebrock, J. D., Christensen, A. L., Beauchamp, C. P., Clarke, H. D., & Spangehl, M. J. (2019). Screening for Periprosthetic Joint Infections With ESR and CRP: The Ideal Cutoffs. *J Arthroplasty*. doi:10.1016/j.arth.2019.11.040
- Bitik, B., Mercan, R., Tufan, A., Tezcan, E., Küçük, H., İlhan, M., . . . Göker, B. (2015). Differential diagnosis of elevated erythrocyte sedimentation rate and C-reactive protein levels: a rheumatology perspective. *European Journal of Rheumatology*, 2(4), 131-134. doi:10.5152/eurjrheum.2015.0113
- Black, S., Kushner, I., & Samols, D. (2004). C-reactive Protein. *J Biol Chem*, 279(47), 48487-48490. doi:10.1074/jbc.R400025200
- Bykerk, V. P., Akhavan, P., Hazlewood, G. S., Schieir, O., Dooley, A., Haraoui, B., . . . Bombardier, C. (2012). Canadian Rheumatology Association Recommendations for Pharmacological Management of Rheumatoid Arthritis with Traditional and Biologic Disease-modifying Antirheumatic Drugs. *The Journal of Rheumatology*, 39(8), 1559. Retrieved from <http://www.jrheum.org/content/39/8/1559.abstract>
- Caylor, T. L., & Perkins, A. (2013). Recognition and management of polymyalgia rheumatica and giant cell arteritis. *Am Fam Physician*, 88(10), 676-684.
- Colebatch, A. N., Edwards, C. J., Østergaard, M., van der Heijde, D., Balint, P. V., Agostino, M.-A., . . . Conaghan, P. G. (2013). EULAR recommendations for the use of imaging of the joints in the clinical management of rheumatoid arthritis. *Annals of the Rheumatic Diseases*, 72(6), 804. Retrieved from <http://ard.bmj.com/content/72/6/804.abstract>
- Combe, B., Landewe, R., Daien, C. I., Hua, C., Aletaha, D., Álvaro-Gracia, J. M., . . . van Vollenhoven, R. (2017). 2016 update of the EULAR recommendations for the management of early arthritis. *Annals of the Rheumatic Diseases*, 76(6), 948. Retrieved from <http://ard.bmj.com/content/76/6/948.abstract>
- Conditions, N. C. C. f. C. (2009). National Institute for Health and Clinical Excellence: Guidance. In *Rheumatoid Arthritis: National Clinical Guideline for Management and Treatment in Adults*. London: Royal College of Physicians (UK) Royal College of Physicians of London.
- Crowson, C. S., Rahman, M. U., & Matteson, E. L. (2009). Which Measure of Inflammation to Use? A Comparison of Erythrocyte Sedimentation Rate and C-Reactive Protein Measurements from Randomized Clinical Trials of Golimumab in Rheumatoid Arthritis. *The Journal of Rheumatology*, 36(8), 1606. Retrieved from <http://www.jrheum.org/content/36/8/1606.abstract>
- Dasgupta, B. (2010). Concise guidance: diagnosis and management of giant cell arteritis. *Clin Med (Lond)*, 10(4), 381-386.
- Dasgupta, B., Borg, F. A., Hassan, N., Alexander, L., Barraclough, K., Bourke, B., . . . Samanta, A. (2010). BSR and BHPR guidelines for the management of giant cell arteritis. *Rheumatology (Oxford)*, 49(8), 1594-1597. doi:10.1093/rheumatology/keq039a
- Dasgupta, B., Borg, F. A., Hassan, N., Barraclough, K., Bourke, B., Fulcher, J., . . . Samanta, A.

(2010). BSR and BHPR guidelines for the management of polymyalgia rheumatica. *Rheumatology (Oxford)*, 49(1), 186-190. doi:10.1093/rheumatology/kep303a

Dejaco, C., Ramiro, S., Duftner, C., Besson, F. L., Bley, T. A., Blockmans, D., . . . Schmidt, W. A. (2018). EULAR recommendations for the use of imaging in large vessel vasculitis in clinical practice. *Annals of the Rheumatic Diseases*, 77(5), 636. Retrieved from <http://ard.bmj.com/content/77/5/636.abstract>

Dejaco, C., Singh Yogesh, P., Perel, P., Hutchings, A., Camellino, D., Mackie, S., . . . Dasgupta, B. (2015). 2015 Recommendations for the Management of Polymyalgia Rheumatica: A European League Against Rheumatism/American College of Rheumatology Collaborative Initiative. *Arthritis & Rheumatology*, 67(10), 2569-2580. doi:10.1002/art.39333

Docken, W. P. (2021, 11/02/2017). Clinical manifestations and diagnosis of polymyalgia rheumatica. UpToDate. Retrieved from <https://www.uptodate.com/contents/clinical-manifestations-and-diagnosis-of-polymyalgia-rheumatica>

Docken, W. P., & Rosenbaum, J. T. (2019, 12/08/2017). Clinical manifestations of giant cell arteritis. UpToDate. Retrieved from <https://www.uptodate.com/contents/clinical-manifestations-of-giant-cell-arteritis>

England, B. R., Tiong, B. K., Bergman, M. J., Curtis, J. R., Kazi, S., Mikuls, T. R., . . . Michaud, K. (2019). 2019 Update of the American College of Rheumatology Recommended Rheumatoid Arthritis Disease Activity Measures. *Arthritis Care Res (Hoboken)*, 71(12), 1540-1555. doi:10.1002/acr.24042

Ernst, A. A., Weiss, S. J., Tracy, L. A., & Weiss, N. R. (2010). Usefulness of CRP and ESR in predicting septic joints. *South Med J*, 103(6), 522-526. doi:10.1097/SMJ.0b013e3181ddd246

FDA. (2005). Review Criteria for Assessment of C-Reactive Protein (CRP), High Sensitivity C-Reactive Protein (hsCRP)k and Cardiac C-Reactive Protein (cCRP) Assays. Rockville, MD: U.S. Department of Health and Human Services Retrieved from <https://www.fda.gov/downloads/medicaldevices/deviceregulationandguidance/guidancedocuments/ucm071017.pdf>

FDA. (2018). Devices@FDA. Retrieved from <https://www.accessdata.fda.gov/scripts/cdrh/devicesatfda/index.cfm>

Fransen, J., & van Riel, P. L. (2006). DAS remission cut points. *Clin Exp Rheumatol*, 24(6 Suppl 43), S-29-32.

Gaitonde, S., Samols, D., & Kushner, I. (2008). C-reactive protein and systemic lupus erythematosus. *Arthritis Care & Research*, 59(12), 1814-1820. doi:10.1002/art.24316

Gergianaki, I., & Bertsias, G. (2018). Systemic Lupus Erythematosus in Primary Care: An Update and Practical Messages for the General Practitioner. *Frontiers in Medicine*, 5, 161. doi:10.3389/fmed.2018.00161

Gordon, C., Amissah-Arthur, M.-B., Gayed, M., Brown, S., Bruce, I. N., D'Cruz, D., . . . Guidelines Working, G. (2018). The British Society for Rheumatology guideline for the management of systemic lupus erythematosus in adults. *Rheumatology*, 57(1), e1-e45. doi:10.1093/rheumatology/kex286

- Ha, C. S., Hodgson, D. C., Advani, R., Dabaja, B. S., Dhakal, S., Flowers, C. R., . . . Constine, L. S. (2014, 2014). Follow-up of Hodgkin lymphoma. *American College of Radiology ACR Appropriateness Criteria*. Retrieved from <https://acsearch.acr.org/docs/69388/Narrative/>
- Hale, A. J., Ricotta, D. N., & Freed, J. A. (2019). Evaluating the Erythrocyte Sedimentation Rate. *Jama*, 321(14), 1404-1405. doi:10.1001/jama.2019.1178
- Hamann, P. D. H., Shaddick, G., Hyrich, K., Green, A., McHugh, N., & Pauling, J. D. (2019). Gender stratified adjustment of the DAS28-CRP improves inter-score agreement with the DAS28-ESR in rheumatoid arthritis. *Rheumatology (Oxford)*, 58(5), 831-835. doi:10.1093/rheumatology/key374
- Henderson, L. A., Canna, S. W., Friedman, K. G., Gorelik, M., Lapidus, S. K., Bassiri, H., . . . Mehta, J. J. (2020). American College of Rheumatology Clinical Guidance for Multisystem Inflammatory Syndrome in Children Associated With SARS-CoV-2 and Hyperinflammation in Pediatric COVID-19: Version 1. *Arthritis Rheumatol*, 72(11), 1791-1805. doi:10.1002/art.41454
- Hensor, E. M. A., Emery, P., Bingham, S. J., & Conaghan, P. G. (2010). Discrepancies in categorizing rheumatoid arthritis patients by DAS-28(ESR) and DAS-28(CRP): can they be reduced? *Rheumatology*, 49(8), 1521-1529. doi:10.1093/rheumatology/keq117
- Horsti, J., Rontu, R., & Collings, A. (2010). A Comparison Between the StaRRsed Auto-Compact Erythrocyte Sedimentation Rate Instrument and the Westergren Method. *Journal of Clinical Medicine Research*, 2(6), 261-265. doi:10.4021/jocmr476w
- Keeling, S. O., Alabdurubalnabi, Z., Avina-Zubieta, A., Barr, S., Bergeron, L., Bernatsky, S., . . . Santesso, N. (2018). Canadian Rheumatology Association Recommendations for the Assessment and Monitoring of Systemic Lupus Erythematosus. *J Rheumatol*, 45(10), 1426-1439. doi:10.3899/jrheum.171459
- Keenan, R. T., Swearingen, C. J., & Yazici, Y. (2008). Erythrocyte sedimentation rate and C-reactive protein levels are poorly correlated with clinical measures of disease activity in rheumatoid arthritis, systemic lupus erythematosus and osteoarthritis patients. *Clin Exp Rheumatol*, 26(5), 814-819.
- Kheir, M. M., Tan, T. L., Shohat, N., Foltz, C., & Parvizi, J. (2018). Routine Diagnostic Tests for Periprosthetic Joint Infection Demonstrate a High False-Negative Rate and Are Influenced by the Infecting Organism. *J Bone Joint Surg Am*, 100(23), 2057-2065. doi:10.2106/jbjs.17.01429
- Kratz, A., Plebani, M., Peng, M., Lee, Y. K., McCafferty, R., & Machin, S. J. (2017). ICSH recommendations for modified and alternate methods measuring the erythrocyte sedimentation rate. *International Journal of Laboratory Hematology*, 39(5), 448-457. doi:10.1111/ijlh.12693
- Kushner, I. (2021, 07/12/2017). Acute phase reactants. UpToDate. Retrieved from <https://www.uptodate.com/contents/acute-phase-reactants>
- Mackie, S. L., Dejaco, C., Appenzeller, S., Camellino, D., Duftner, C., Gonzalez-Chiappe, S., . . . Dasgupta, B. (2020). British Society for Rheumatology guideline on diagnosis and treatment of giant cell arteritis. *Rheumatology (Oxford)*, 59(3), e1-e23. doi:10.1093/rheumatology/kez672
- March, L., Barrett, C., Gale, F., Lassere, M., McQuade, J., Trevena, L., . . . Landgren, F. (2009). Clinical guideline for the diagnosis and management of early rheumatoid arthritis. *South*

Melbourne, Victoria, Australia: The Royal Australian College of General Practitioners Retrieved from [https://www.racgp.org.au/download/documents/Guidelines/Musculoskeletal/racgp\\_ra\\_guideline.pdf](https://www.racgp.org.au/download/documents/Guidelines/Musculoskeletal/racgp_ra_guideline.pdf)

McCarthy, E. M., MacMullan, P. A., Al-Mudhaffer, S., Madigan, A., Donnelly, S., McCarthy, C. J., . . . McCarthy, G. M. (2014). Plasma Fibrinogen Along with Patient-reported Outcome Measures Enhances Management of Polymyalgia Rheumatica: A Prospective Study. *The Journal of Rheumatology*, 41(5), 931. Retrieved from <http://www.jrheum.org/content/41/5/931.abstract>

Mukhtyar, C., Guillevin, L., Cid, M. C., Dasgupta, B., de Groot, K., Gross, W., . . . Luqmani, R. (2009). EULAR recommendations for the management of large vessel vasculitis. *Annals of the Rheumatic Diseases*, 68(3), 318. Retrieved from <http://ard.bmj.com/content/68/3/318.abstract>

National Guideline, C. (2014). ACR Appropriateness Criteria Follow-up of Hodgkin Lymphoma. Retrieved from <https://www.guideline.gov/summaries/summary/48304/acr-appropriateness-criteria--followup-of-hodgkin-lymphoma?q=ESR>

National Guideline, C. (2015). Irritable bowel syndrome in adults: diagnosis and management of irritable bowel syndrome in primary care. Retrieved from <https://www.guideline.gov/summaries/summary/49049/irritable-bowel-syndrome-in-adults-diagnosis-and-management-of-irritable-bowel-syndrome-in-primary-care?q=ESR>

National Guideline, C. (2016). American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network 2015 recommendations for the treatment of ankylosing spondylitis and nonradiographic axial spondyloarthritis. Retrieved from <https://www.guideline.gov/summaries/summary/50567/american-college-of-rheumatologyspondylitis-association-of-american-spondyloarthritis-research-and-treatment-network-2015-recommendations-for-the-treatment-of-ankylosing-spondylitis-and-nonradiographic-axial-spondyloarthritis?q=ESR>

NCCN. (2020). T-Cell Lymphomas Version 1.2020 - January 6, 2020. Retrieved from [https://www.nccn.org/professionals/physician\\_gls/pdf/t-cell.pdf](https://www.nccn.org/professionals/physician_gls/pdf/t-cell.pdf)

NCCN. (2021a). Hodgkin Lymphoma Version 1.2020 - January 30, 2020. Retrieved from [https://www.nccn.org/professionals/physician\\_gls/pdf/hodgkins.pdf](https://www.nccn.org/professionals/physician_gls/pdf/hodgkins.pdf)

NCCN. (2021b). NCCN Clinical Practice Guidelines in Oncology B-Cell Lymphomas. NCCN Guidelines, 5.2019. Retrieved from [https://www.nccn.org/professionals/physician\\_gls/pdf/b-cell.pdf](https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf)

NICE. (2017, April 2017). Irritable bowel syndrome in adults: diagnosis and management. Clinical Guideline. Retrieved from <https://www.nice.org.uk/guidance/cg61/resources/irritable-bowel-syndrome-in-adults-diagnosis-and-management-pdf-975562917829>

NICE. (2020). Rheumatoid arthritis in adults: management. Retrieved from <https://www.nice.org.uk/guidance/ng100/chapter/Recommendations>

Nielung, L., Christensen, R., Danneskiold-Samsøe, B., Bliddal, H., Holm, C. C., Ellegaard, K., . . . Bartels, E. M. (2015). Validity and Agreement between the 28-Joint Disease Activity Score Based on C-Reactive Protein and Erythrocyte Sedimentation Rate in Patients with Rheumatoid Arthritis. *Arthritis*, 2015, 401690. doi:10.1155/2015/401690

- O'Neill, S. G., Giles, I., Lambrianides, A., Manson, J., D'Cruz, D., Schrieber, L., . . . Rahman, A. (2010). Antibodies to apolipoprotein A-I, high-density lipoprotein, and C-reactive protein are associated with disease activity in patients with systemic lupus erythematosus. *Arthritis & Rheumatism*, 62(3), 845-854. doi:10.1002/art.27286
- Parvizi, J., Tan, T. L., Goswami, K., Higuera, C., Della Valle, C., Chen, A. F., & Shohat, N. (2018). The 2018 Definition of Periprosthetic Hip and Knee Infection: An Evidence-Based and Validated Criteria. *The Journal of Arthroplasty*, 33(5), 1309-1314.e1302. doi:https://doi.org/10.1016/j.arth.2018.02.078
- Parvizi, J., Zmistowski, B., Berbari, E. F., Bauer, T. W., Springer, B. D., Della Valle, C. J., . . . Zalavras, C. G. (2011). New definition for periprosthetic joint infection: from the Workgroup of the Musculoskeletal Infection Society. *Clin Orthop Relat Res*, 469(11), 2992-2994. doi:10.1007/s11999-011-2102-9
- Pathology, A. S. f. C. (2015, 02/03/2015). Don't order an erythrocyte sedimentation rate (ESR) to look for inflammation in patients with undiagnosed conditions. Twenty Things Physicians and Patients Should Question. Retrieved from <http://www.choosingwisely.org/clinician-lists/american-society-clinical-pathology-erythrocyte-sedimentation-rate-for-acute-phase-inflammation/>
- Perez-Prieto, D., Portillo, M. E., Puig-Verdie, L., Alier, A., Martinez, S., Sorli, L., . . . Monllau, J. C. (2017). C-reactive protein may misdiagnose prosthetic joint infections, particularly chronic and low-grade infections. *Int Orthop*, 41(7), 1315-1319. doi:10.1007/s00264-017-3430-5
- Sherkatolabbasieh, H., Firouzi, M., & Shafizadeh, S. (2020). Evaluation of platelet count, erythrocyte sedimentation rate and C-reactive protein levels in paediatric patients with inflammatory and infectious disease. *New Microbes and New Infections*, 37, 100725. doi:https://doi.org/10.1016/j.nmni.2020.100725
- Singh, J. A., Saag, K. G., Bridges, S. L., Akl, E. A., Bannuru, R. R., Sullivan, M. C., . . . McAlindon, T. (2015). 2015 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. *Arthritis & Rheumatology*, 68(1), 1-26. doi:10.1002/art.39480
- Suarez-Almazor, M. E., Gonzalez-Lopez, L., Gamez-Nava, J. I., Belseck, E., Kendall, C. J., & Davis, P. (1998). Utilization and predictive value of laboratory tests in patients referred to rheumatologists by primary care physicians. *J Rheumatol*, 25(10), 1980-1985.
- Taylor, P. C., & Maini, R. N. (2020, 05/05/2017). Biologic markers in the diagnosis and assessment of rheumatoid arthritis. UpToDate. Retrieved from <https://www.uptodate.com/contents/biologic-markers-in-the-diagnosis-and-assessment-of-rheumatoid-arthritis>
- Venables, P., & Maini, R. N. (2021, 08/23/2018). Diagnosis and differential diagnosis of rheumatoid arthritis. UpToDate. Retrieved from <https://www.uptodate.com/contents/diagnosis-and-differential-diagnosis-of-rheumatoid-arthritis>
- Ward, M. M., Deodhar, A., Akl, E. A., Lui, A., Ermann, J., Gensler, L. S., . . . Caplan, L. (2016). American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network 2015 Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. *Arthritis & rheumatology (Hoboken, N.J.)*, 68(2), 282-298. doi:10.1002/art.39298

Wasserman, A. (2018). Rheumatoid Arthritis: Common Questions About Diagnosis and Management. *Am Fam Physician*, 97(7), 455-462. Retrieved from <https://www.aafp.org/afp/2018/0401/p455.html>

Watson, J., Jones, H. E., Banks, J., Whiting, P., Salisbury, C., & Hamilton, W. (2019). Use of multiple inflammatory marker tests in primary care: using Clinical Practice Research Datalink to evaluate accuracy. *Br J Gen Pract*, 69(684), e462-e469. doi:10.3399/bjgp19X704309

WHO. (2018). World Health Organization Model List of Essential In Vitro Diagnostics First edition (2018). Retrieved from [https://www.who.int/medical\\_devices/diagnostics/WHO\\_EDL\\_2018.pdf](https://www.who.int/medical_devices/diagnostics/WHO_EDL_2018.pdf)

WHO. (2019). Second WHO Model List of Essential In Vitro Diagnostics. Retrieved from [https://www.who.int/docs/default-source/nutritionlibrary/complementary-feeding/second-who-model-list-v8-2019.pdf?sfvrsn=6fe86adf\\_1](https://www.who.int/docs/default-source/nutritionlibrary/complementary-feeding/second-who-model-list-v8-2019.pdf?sfvrsn=6fe86adf_1)

Wu, A. H., Lewandrowski, K., Gronowski, A. M., Grenache, D. G., Sokoll, L. J., & Magnani, B. (2010). Antiquated tests within the clinical pathology laboratory. *Am J Manag Care*, 16(9), e220-227.

### Policy Update History:

1/1/2023	New policy
----------	------------