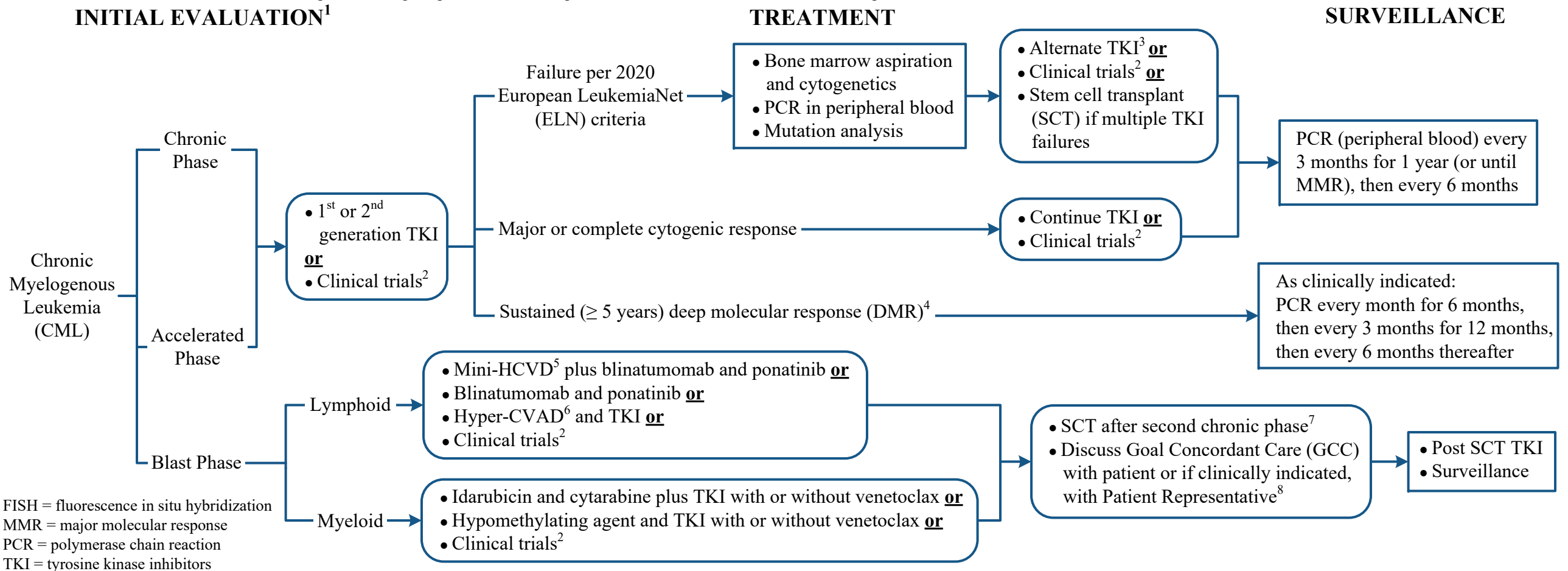


Disclaimer: This algorithm has been developed for MD Anderson using a multidisciplinary approach considering circumstances particular to MD Anderson's specific patient population, services and structure, and clinical information. This is not intended to replace the independent medical or professional judgment of physicians or other health care providers in the context of individual clinical circumstances to determine a patient's care. This algorithm should not be used to treat pregnant women.

**Notes:** Consider Clinical Trials as treatment options for eligible patients. Leukemia patients should be referred and treated at a comprehensive cancer center.



<sup>1</sup> See [Physical Activity, Nutrition, Obesity Screening and Management](#), and [Tobacco Cessation Treatment](#) algorithms; ongoing reassessment of lifestyle risks should be a part of routine clinical practice

<sup>2</sup> See [Leukemia Clinical Trials](#)

<sup>3</sup> If T315I, consider ponatinib

<sup>4</sup> DMR is defined as MR4.0:  $BCR::ABL1$  (IS)  $\leq 0.01\%$  or MR4.5:  $BCR::ABL1$  (IS)  $\leq 0.0032\%$

<sup>5</sup> Mini-HCVD (cyclophosphamide and dexamethasone at 50% dose reduction, no anthracycline, methotrexate at 75% dose reduction, cytarabine at 0.5 gram/m<sup>2</sup> for 4 doses)

<sup>6</sup> Hyper-CVAD = hyper-fractionated cyclophosphamide, vincristine, doxorubicin, and dexamethasone

<sup>7</sup> In the case of de novo CML-lymphoid blast phase, consider deferring SCT in patients who achieve minimal residual disease (MRD)–negative remission by next generation sequencing (NGS)

<sup>8</sup> GCC should be initiated by the Primary Oncologist. If Primary Oncologist is unavailable, Primary Team/Attending Physician to initiate GCC discussion and notify Primary Oncologist. Patients or if clinically indicated, the Patient Representative should be informed of therapeutic and/or palliative options. GCC discussion should be consistent, timely, and re-evaluated as clinically indicated. The Advance Care Planning (ACP) note should be used to document GCC discussion. Refer to [GCC home page](#) (for internal use only).

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## SUGGESTED READINGS

Hochhaus, A., Baccarani, M., Silver, R. T., Schiffer, C., Apperley, J. F., Cervantes, F., . . . Hehlmann, R. (2020). European LeukemiaNet 2020 recommendations for treating chronic myeloid leukemia. *Leukemia*, 34(4), 966-984. <https://doi.org/10.1038/s41375-020-0776-2>

Jabbour, E., & Kantarjian, H. (2022). Chronic myeloid leukemia: 2022 update on diagnosis, therapy and monitoring. *American Journal of Hematology*, 97(9), 1236-1256 <https://doi.org/10.1002/ajh.26642>

MD Anderson Institutional Policy #CLN1202 - Advance Care Planning Policy  
Advance Care Planning (ACP) Conversation Workflow (ATT1925)

National Comprehensive Cancer Network. (2023). *Chronic Myeloid Leukemia* (NCCN Guideline Version 2.2024). Retrieved from [https://www.nccn.org/professionals/physician\\_gls/pdf/cml.pdf](https://www.nccn.org/professionals/physician_gls/pdf/cml.pdf)

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