



**Table 1****Amendments Identified for ESMO-MCBS Version 1.1 to Incorporate Hematologic Malignancies.**

- Incorporate a way to grade single-arm studies evaluating curative treatments, such as CAR T-cell salvage therapy.
- Provide a mechanism for incorporating substantial interim survival gains for conditions with very long PFS or OS (eg, CLL, CML, indolent lymphoma and MM) when median survival has not yet been reached in the control arm.
- Improve the valuation of treatments that provide a strong, late gain in PFS when there is no plateauing of the PFS curve.
- Incorporate deep and complete cytogenetic responses and major molecular responses as surrogates for survival in CML.
- Allow the grading of non-inferiority studies that evaluate response rates.
- Provide a means of incorporating QOL benefit in studies evaluating response rate as a primary outcome and QOL as a secondary outcome.

CAR = chimeric antigen receptor, CLL = chronic lymphocytic leukemia, CML = chronic myeloid leukemia, MM = multiple myeloma, PFS = progression-free survival, OS = overall survival, QOL = quality of life.

We look forward to this important challenge with the secure knowledge that we now have an established track record of tremendous cooperation. We believe that the ESMO-MCBS:H will make a major contribution to the world of malignant hematology.

## Conclusions

The ESMO-MCBS version 1.1 is widely applicable to studies of recently approved treatments for hematological malignancies analyzed by EHA experts. However, a number of modifications are necessary to enable hematological malignancies to be validated within the ESMO-MCBS framework. Based on the findings of this EHA analysis, EHA and ESMO are committed to develop a version of the scale that is robustly validated to grade studies of new treatments for hematological malignancies. Collaboration between these organizations is ongoing in order to achieve this in a timely manner.

## References

1. Hammerman A, Greenberg-Dotan S, Feldhamer I, et al. The ESMO-Magnitude of Clinical Benefit Scale for novel oncology drugs: correspondence with three years of reimbursement decisions in Israel. *Expert Rev Pharmacoecon Outcomes Res.* 2018;18:119–122.
2. Wild C, Grossmann N, Bonanno PV, et al. Utilisation of the ESMO-MCBS in practice of HTA. *Ann Oncol.* 2016;27:2134–2136.
3. Kaufman HL, Atkins MB, Subedi P, et al. The promise of immuno-oncology: implications for defining the value of cancer treatment. *J Immunother Cancer.* 2019;7:129.
4. Cherny NI, Sullivan R, Dafni U, et al. A standardised, generic, validated approach to stratify the magnitude of clinical benefit that can be anticipated from anti-cancer therapies: the European Society for Medical Oncology Magnitude of Clinical Benefit Scale (ESMO-MCBS). *Ann Oncol.* 2015;26:1547–1573.
5. Cherny NI, Dafni U, Bogaerts J, et al. ESMO-Magnitude of Clinical Benefit Scale version 1.1. *Ann Oncol.* 2017;28:2340–2366.
6. Kiesewetter B, Cherny NI, Boissel N, et al. EHA evaluation of the ESMO-Magnitude of Clinical Benefit Scale version 1.1 (ESMO-MCBS v1.1) for hematologic malignancies. *ESMO Open.* 2020;5: pii: e000611.
7. Daniels N. Accountability for reasonableness. *BMJ.* 2000;321:1300–1301.