

ESMO-MAGNITUDE OF CLINICAL BENEFIT SCALE V1.1

INSTRUCTIONS

01. There are 5 forms

Evaluation form 1: for new approaches to adjuvant therapy or new potentially curative therapies.

Evaluation form 2a: for therapies that are not likely to be curative with primary endpoint of overall survival (OS) with separate sheets for:

- IF median OS with the standard treatment is ≤ 12 months
- IF median OS with the standard treatment is >12 months, ≤ 24 months
- IF median OS with the standard treatment is >24 months

Evaluation form 2b: for therapies that are not likely to be curative with primary endpoint progression-free survival (PFS) with separate sheets for:

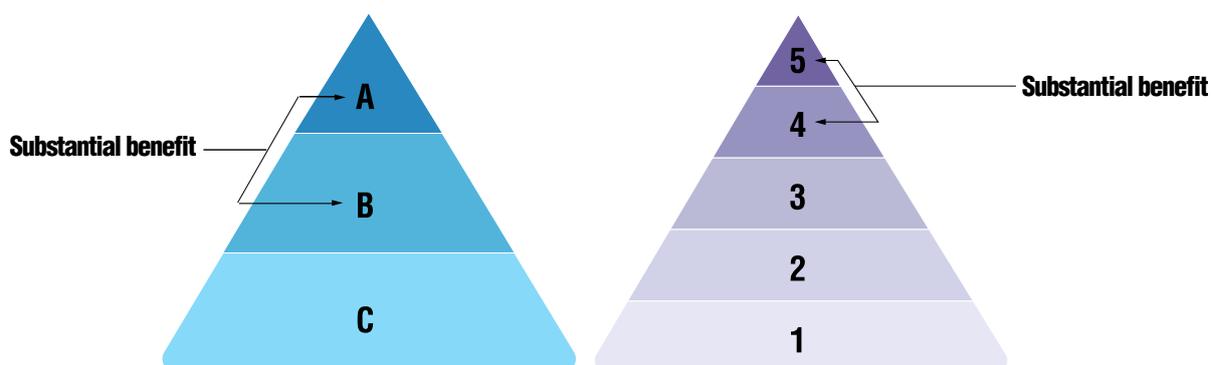
- IF median PFS with standard treatment is ≤ 6 months
- IF median PFS with standard treatment is >6 months

Evaluation form 2c: for therapies that are not likely to be curative with primary endpoint other than OS or PFS or equivalent (non-inferiority) studies.

Evaluation form 3: for single-arm studies in “orphan diseases” and for diseases with “high unmet need” when primary outcome is PFS or overall response rate (ORR).

02. ESMO-MCBS scores

The highest grades of the ESMO-MCBS in the curative setting are A and B and in the non-curative setting 5 and 4, which indicate a substantial magnitude of benefit.



03. Analysis of phase III trials

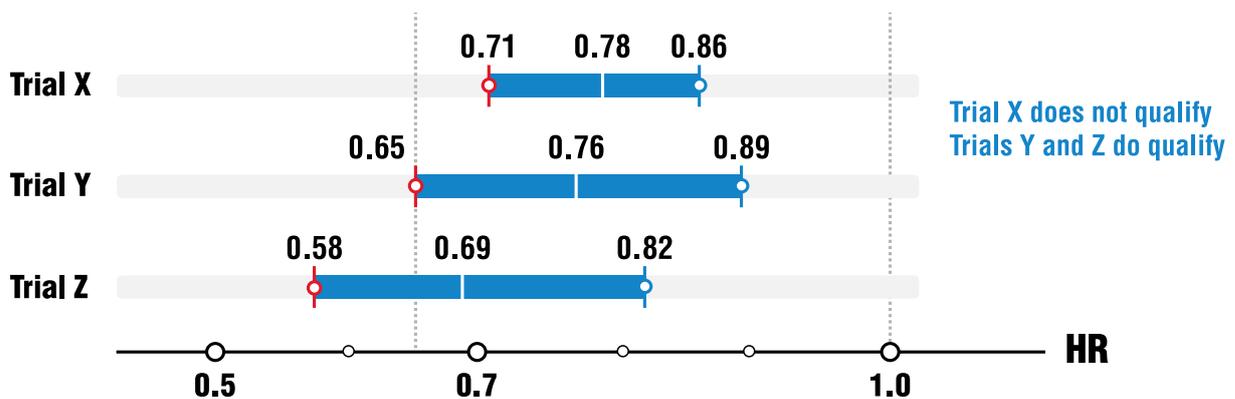
- Adequately powered studies showing statistically significant improvement in the primary outcome (defined by $P < 0.050$).
- Careful analyses “control arm” and identification of endpoints.

- **Check subgroup analysis**
 - a. Studies with pre-planned subgroup analyses with a maximum of 3 subgroups can be graded (provided there is adjustment for multiple comparisons).
 - b. When statistically significant results are reported for any subgroup, then each of these should be graded separately.
 - c. Subgroups not showing statistically significant results are not graded.
 - d. Except for studies that incorporate collection of tissue samples to enable re-stratification based on new genetic or other biomarkers, findings from un-planned (post-hoc) subgroup analysis cannot be graded and they can only be used as foundation for hypothesis generation.

04. **More than one outcome may be applicable**

The statistical significance of secondary outcomes are determined by the same criteria as for primary outcomes i.e. defined by $P < 0.050$.

05. **For a required hazard ratio (HR), not the point estimate but the lower limit of 95% confidence interval (CI) estimated based on the observed HR in the trial should encompass the required HR.**



06. **In the case of OS in the non-curative setting check for:**

- Reduced toxicity
- Improvement in quality of life (QoL)
- Report final adjusted grade taking into account toxicity, and QoL when relevant.

07. **In the case of PFS in the non-curative setting check for:**

- Indicators of toxicity
- Survival data also available
- Early termination with crossover based on planned interim survival analysis
- Global QoL advantage using validated scale if applicable
- Report final adjusted grade taking into account toxicity, survival advantage and QoL when applicable.