

## Example of Performance Monitoring in the Post-Stem Cell Transplant Chimerism Monitoring Programme

The table below is a hypothetical example to help describe performance monitoring within the Chimerism programme. It considers a single participant over six trials.

| Trial (Performance)                      | Post SCT Sample | Sample z-score | Performance Monitoring<br>A: Action, C: Critical |   |   |   |   |   |  |  |  |  |  |  |
|------------------------------------------|-----------------|----------------|--------------------------------------------------|---|---|---|---|---|--|--|--|--|--|--|
| Trial 1<br>(Satisfactory)                | A               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |
|                                          | B               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |
| Trial 2<br>(Satisfactory)                | C               | Action         | A                                                | A | A |   |   |   |  |  |  |  |  |  |
|                                          | D               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |
| Trial 3 - Non return<br>(Unsatisfactory) | E               | Action (NR)    |                                                  |   | A | A | A |   |  |  |  |  |  |  |
|                                          | F               | Action (NR)    |                                                  |   |   | A | A | A |  |  |  |  |  |  |
| Trial 4<br>(Persistent Unsatisfactory)   | G               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |
|                                          | H               | Action         |                                                  |   |   |   |   |   |  |  |  |  |  |  |
| Trial 5<br>(Satisfactory)                | I               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |
|                                          | J               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |
| Trial 6<br>(Unsatisfactory)              | K               | Critical       |                                                  |   |   |   |   |   |  |  |  |  |  |  |
|                                          | L               | Satisfactory   |                                                  |   |   |   |   |   |  |  |  |  |  |  |

**Trial 1:** Results for both samples, A and B, were given satisfactory z scores, therefore performance was Satisfactory.

**Trial 2:** An Action z score was given for sample C, while the result for sample D was satisfactory. Overall performance was Satisfactory.

**Trial 3:** No results were returned and therefore an Action score was awarded for both sample E and sample F. Considering the rolling 3-sample period CDE, the combination of action scores for samples C and E generated a critical score, shaded dark red. A further critical score was awarded for the period DEF (also shaded dark red) as a result of the combination of Action scores for samples E and F. Performance was considered Unsatisfactory.

**Trial 4:** The result for sample G was satisfactory, however an Action z score was awarded for sample H. Considering the rolling 3-sample period FGH (also shaded dark red), the combination of Action scores for samples F and H results in a further Critical score. Please note that for the period EFG (shaded blue), a Critical score was not awarded as the specific combination of Action scores for samples E and F had already been accounted for in the period DEF. Considering the 3-trial (six sample) period of trials 2, 3 and 4 (shaded red), a total of three critical scores (shaded dark red) have been awarded and therefore the participant was deemed to have shown Persistent Unsatisfactory Performance.

**Trial 5:** Results for both samples, I and J, were given satisfactory z scores, therefore the performance status returned to Satisfactory.

**Trial 6:** Whilst the result for sample L was satisfactory, the result for sample K was awarded a Critical score, again resulting in Unsatisfactory Performance status.