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**Information about the contributions of each person named as having participated in the study**

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**The guarantors of this manuscript confirm that all persons designated as authors qualify for authorship, and that each author has participated sufficiently in the work to take public responsibility for appropriate portions of the content.**

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**3) Design & Methods. The following authors were responsible for specific investigations (please detail):**

- Ilaria Ambaglio, Luca Malcovati, Matteo C. Da Vià, Elisa Bono, Marta Ubezio were responsible for clinical data collection
- Matteo G. Della Porta, Erica Travaglino were responsible for peripheral blood and bone marrow morphological analysis
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**4) Results. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):**

- Ilaria Ambaglio, Luca Malcovati, Matteo G. Della Porta, Erica Travaglino, Matteo C. Da Vià, Elisa Bono, Marta Ubezio were responsible for clinical data, including Table 1
- Ilaria Ambaglio, Luca Malcovati, were responsible for Figure 1 and 2
- Anna Gallì, Elli Papaemmanuil, Peter J. Campbell were responsible for mutation analysis results
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**5) Writing the manuscript. The following authors were responsible for writing the manuscript:**

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Not applicable