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Clinical and molecular characteristics of MEF2D fusion-positive precursor B-cell acute lymphoblastic leukemia in childhood, including a novel translocation resulting in MEF2D-HNRNPH1 gene fusion

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Contributions: K.O., N.K., Y.S., M.K., T.Y., K.M., K.H., M.K., Y.M., K.K., A.M., and A.O. designed the study. K.F., D.H., S.H., M.I., R.K., T.K., I.K., A.M., M.M., K.M., Y.N., M.-J.P., T.U., S.Y., and H.T. prepared clinical materials, and collected and analyzed clinical information. K.N., Y.M., H.S., K.M., T.Y., and M.K. prepared the library and performed next-generation sequencing. H.I., K.O., H.O.-K., H.S., and T.Y. performed bioinformatics analyses of the sequencing data. S.H., K.O., A.Y., H.T., Y.S., A.Y., T.F., and N.K. performed the experiments for validation of the genetic abnormalities and immunophenotyping and analyzed the data. K.O., N.K., and Y.S. generated figures and tables. K.O., N.K. and A.M. wrote the manuscript. K.O., N.K., Y.M., H.Y., K.K., A.M., and A.O. organized the entire project. All authors critically reviewed and revised the manuscript.