Authors’ contributions

PS performed the medical examination and initiated the cinacalcet treatment regarding the FHH patients.

AQR analyzed and interpreted the patient data and was a major contributor in writing the manuscript. NRJ contributed in writing the manuscript. All authors read and approved the final manuscript.

Pedigree of the three related individuals

Figure 1. Shows the pedigree of the three related individuals diagnosed with FHH and carrying the R220W mutation. I-1 and I-2 are symptomatic and have osteoporosis. II-1 is asymptomatic with normal BMD. The amino acid substitution was found in the affected proband I-2 and the same mutation was revealed in I-1 and II-1. The filled symbol illustrates the individuals carrying the R220W mutation.