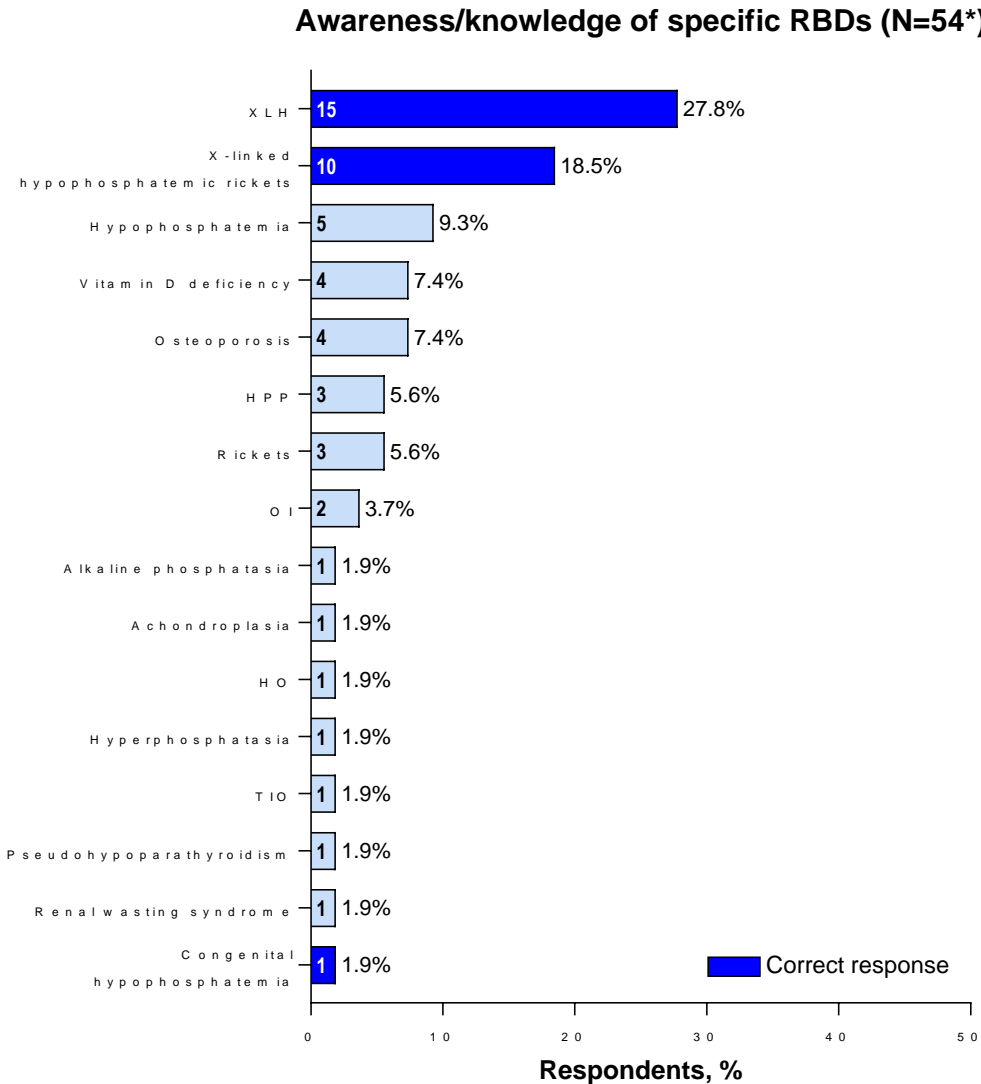


## Online Resource 2: Supplementary Figures

### Fig S11 Responses to first case study assessing awareness and knowledge of specific RBDs

The question described an inherited disorder that is characterized by low levels of phosphate in the blood due to loss of phosphate in the urine (phosphate wasting/phosphaturia) and leads to poorly mineralized bones and osteomalacia. Symptoms in children included rickets, delayed/disproportionate growth, craniosynostosis, delayed motor development, and gait abnormalities. Symptoms in adults included fractures, osteoarthritis, enthesopathy, spinal stenosis, and hearing loss. Across both age groups included short stature, deformity of weight-bearing limbs, osteomalacia, bone and joint pain, stiffness, dental complications, muscle pain and weakness, Chiari malformation, and gait disturbance. \*Number of respondents who reported knowing what the diagnosis was (this is the denominator for the percentage calculations). The values in the bars are the number of respondents reporting the particular diagnosis. HO; hypophosphatemic osteomalacia; HPP, hypophosphatasia; OI, osteogenesis imperfecta; RBD, rare bone disorder; TIO, tumor-induced osteomalacia; XLH, X-linked hypophosphatemia.



**Fig SI2 Responses to second case study assessing awareness and knowledge of specific RBDs**

The question described an inherited disorder that has often as its first sign early (premature) loss of primary (baby) teeth in a child. The affected child may have short stature with abnormally shaped skull, bowed legs or knock knees, enlarged wrist and ankle joints characteristic of rickets. Adults may present with fractures including atypical femur fractures and may have other signs of osteomalacia. Diagnosis may be made by finding low levels of an enzyme in the blood as well as elevated levels of Vitamin B6 and/or its metabolites in the blood. \*Number of respondents who reported knowing what the diagnosis was (this is the denominator for the percentage calculations). The values in the bars are the number of respondents reporting the particular diagnosis. FGF23, fibroblast growth factor 23; HPP, hypophosphatasia; OI, osteogenesis imperfecta; RBD, rare bone disorder; XLH, X-linked hypophosphatemia.

### Awareness/knowledge of specific RBDs (N=34\*)

