

**Table S1.** Possible causes of known hypophosphatasemia.

Treatment-related causes	Disease-related causes	Other cause
Corticosteroids Clofibrate Antiresorptive drugs Hormone therapy (selective estrogen receptor modulators) Immunosuppressants Chemotherapy Surgery Vitamin D intoxication Massive infusion	Hypophosphatasia Severe disorders including sepsis, renal failure, hepatic failure, multi- organ failure, and major trauma Cancers Hypoparathyroidism Hypothyroidism Hypercortisolism Severe Malnutrition Multiple Myeloma Celiac disease Deficiency of magnesium, vitamin C, vitamin B12 Severe Anemia Wilson disease Cleidocranial dysplasia Osteogenesis imperfecta Mseleni joint disease	Improperly collected specimen

**Table S2.** Diseases and number of cases that required corticosteroid use.

Diagnosis for corticosteroid use	Number
Systemic lupus erythematosus	9
ANCA-associated vasculitis	5
Sarcoidosis	5
Pemphigus vulgaris	5
Rheumatoid arthritis	4
Myasthenia Gravis	3
Autoimmune hemolytic anemia	2
Sjögren syndrome	2
mixed connective tissue disease	2
Systemic scleroderma	2
Dermatomyositis	1
Castleman's disease	1
Psoriasis	1

Cancer	5
Hormone Replacement Therapy	3
Eosinophilic gastroenteritis	1
Interstitial pneumonia	1
Facial nerve palsy	1
Adult-onset Still's disease	1
Immunosuppressive therapy in renal transplantation	1
Allergic bronchopulmonary mycosis	1

**Table S3.** Diseases and number of cases that required immunosuppressant use.

<b>Diagnosis for immunosuppressant use</b>	<b>Number</b>
ANCA-associated vasculitis	5
Rheumatoid arthritis	6
Sjögren syndrome	4
Systemic lupus erythematosus	9
mixed connective tissue disease	2
Dermatomyositis	1
Castleman's disease	1
Sarcoidosis	5
Pemphigus vulgaris	4
Systemic scleroderma	2
Psoriasis	1
Interstitial pneumonia	1
Adult-onset Still's disease	1
Immunosuppressive therapy in renal transplantation	1