

# Clinical Case Discussion

Prepared by

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# Case 1

A 67-year-old woman attend outpatient Clinic because of **tiredness** and **paraesthesiae** (abnormal sensation of pins and needles) in her feet as well as **anemia**. On Examination Sensory **peripheral neuropathy**

Laboratory investigations:

Hb	<b>9.2 g/dl</b>	(12 – 16.7 g/dl)
MCV	<b>102 fL</b>	(92 – 98 fL)
Vitamin B12	<b>90 ng/ml</b>	(150 – 600 ng/ml)
Folate	<b>2.8 µg/L</b>	(2.0 – 3.8 µg/L )

- How do you describe the laboratory investigation of this lady?
- What could be the cause of peripheral neuropathy in this lady?
- What further test you think explain the cause of this condition?

# Case 2

- A 75-year-old woman presented to his general practitioner with tiredness, muscle aches, and difficulty standing. In her investigation, results showed

Calcium	<b>7.5</b> mg/dl	(8.5 – 10.5 mg/dl)
Phosphorus	<b>1.5</b> mg/dl	(2.5 – 5.0 mg/dl)
PTH	<b>157</b> ng/L	(20 – 74 ng/L)
Alkaline phosphatase	<b>763</b> IU/L	(29 -130 IU/L)
25 Hydroxy Vitamin D	<b>8.1</b> µg/L	(30- 100 µg/L)

- What is the leading cause of this lady's calcium and phosphorus change?
- What contributes to the rise of Alkaline phosphatase in this condition?
- What is the most likely diagnosis of this condition? How would you explain it?

# Case 3

A 35-year-old poor farmer presented with a history of frequent diarrhea and dry scaly lesions around the neck for the past 2-month; examination showed a characteristic lesion around the neck and dorsum of the hand. Lesions were very itchy, especially on sun exposure. He mentions a bad dietary habit of excessive consumption of maize.

- Which Vitamin deficiency is most likely associated with this condition? What is the most likely diagnosis?
- What could be the cause of such vitamin deficiency?
- What other causes could be present with a similar condition?



# Case 4

- A 9-day-old baby girl who was delivered at home was brought to the emergency department complaining of bleeding from the umbilical stump. The mother gives no history of antenatal care

What is the most likely diagnosis of this condition?

How would you explain the development of the patient's condition?

What measures should be taken to prevent her condition?