INTRODUCTION

Vasculitis is known as inflammation of blood vessels.[1] There have been known different variable forms in world.[1-4] Some bladder and kidney cancers have been reported to be associated with vasculitis.[5] There might be also linked with splinter hemorrhage. Various biomarkers are used in detection.[6]

CASE REPORT

A 55-year-old male patient admitted to our clinic with hemorrhage spontaneously developing in the right-hand third phalanx (finger) nail bed due to cold exposure [Figure 1]. The patient stated that this hemorrhage was in a repetitive manner for about 35 years. The diagnosis of his referral clinical manifestation was Raynaud’s syndrome. In his medical history, it was recorded that the patient was admitted to the emergency service for the cause of severe vertigo due to cold exposure 14 years ago. It was also seen in his anamnesis that following the pain associated with the cold sensation in the sacral region; hemorrhage-like color change was occurred at his third phalanx nail bed. The patient also said hemorrhage in his finger appeared within 1 week following the pain felt in the sacral region. When the third phalanx of right and left hands was compared, the third phalanx of the right hand was found to have a bigger diameter [Figure 2]. This diameter difference was detected in a clinic in the USA for the 1st time 26 years ago. The right-hand third finger biopsy was taken and no pathological findings were found. The patient also said that he had applied a numerous clinic until so far and diagnosed “Raynaud’s syndrome.” His last visit our hospital (emergency center) was due to dizziness, nausea, and vomiting and then consulted cardiovascular department to treat him. Then, acetylsalicylic acid was administered to the patient for antiaggregant therapy,[7] and acetylsalicylic acid allergy was developed within 10 min, and emergency intervention was performed due to angioneurotic edema. Later on, clopidogrel 75 mg was given to prevent the hemorrhage, which developed in the third fingernail bed, to obstruct the capillaries.

DISCUSSION

When we put all of the above anamnesis data together and evaluate it, although Raynaud’s syndrome was evaluated in the first place[7] when the patient’s finger structures were

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examined, presence of no loss of pain and sensory perception ability, presence of no response to the cold water stress test, and absence of color change in the nail as a result of cold and emotional stress exposure excluded the diagnosis of Raynaud syndrome. Therefore, the case suggests being splinter hemorrhage rather than Raynaud syndrome. Because the presence of dark red-brown linear bleeding in the nail can be seen in splinter hemorrhage and no physical trauma story was observed in this case. In such cases, the development of hemorrhage in the right third phalanx nail bed with recurrent intervals due to coldness other than dizziness and vomiting did not lead to a vital condition. However, initiation of clopidogrel by referral to the clinic at the first sensation of pain in the sacral region, to remove any potentially damaging effects of such cases, will protect the patient from potentially life-threatening effects. Up to this time, pain in the sacral area due to cold was only found in the right-hand third phalanx.

It is also understood that the appearance of this hemorrhage within 1 week following the pain felt in the sacral region is directly related to the growth rate of the nail. Because the nail growing is about 3.47 mm (0.11 mm/day) in 1 month. The determination of hemorrhage in the nail bed within 1 week following exposure to the cold confirms this grow within 1 week. The occurrence of dizziness due to the above-mentioned coldness suggests that the vasculitis derived splinter hemorrhage in this nail is associated with dizziness, nausea, and vomiting.

Based on all this information, it is understood that the development of hemorrhage in the nail is not a life-threatening condition. However, against all possibilities (including capillary occlusion), we think that giving the above treatment is important for patients. An other words, this repetitive vasculitis derived splinter hemorrhage is rare and heterogeneous disease that appears all the time with hemorrhage in the right third phalanx nail bed with recurrent intervals depending on the cold feeling in the sacral region and pain in the kidney. Recognition of this case by clinicians is important since a delay in diagnosis may impact the outcome significantly (such as thrombosis and vascular occlusion), which might be resulted in the mortality and morbidity. Thus, an overall clinical assessment is important in the initial evaluation of patients with suspected vasculitis derived splinter hemorrhage. Furthermore, differential diagnosis with secondary causes of vasculitis (e.g. bacterial infection) and with vasculitis mimics should be taken into account in a patient with suspected vasculitis.

REFERENCES
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