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A case of cutaneous angiomyolipoma

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Angiomyolipoma (AML) is a tumor composed of adipocytes, smooth muscle, and blood vessels, commonly associated with kidney as a solitary mass. Extrarenal AMLs have been reported in liver, nasal cavity, oral cavity, heart, colon, lung, and skin. Cutaneous AML is a rare benign tumor and located in the acral skin or on the ear. While 30% of renal AMLs are associated with tuberous sclerosis (TS), none of cutaneous AML cases were reported to be related to TS to date. A 79-year-old male presented with a grayish dermal mass on the right great toe for a decade. Ultrasonography revealed a well-defined, oval, hyperechoic lesion with no significant increased vascularity in the subcutaneous tissue. The 0.8 × 0.4 × 0.4 cm sized circumscribed nodule was excised totally. Histopathologic examination revealed a proliferation of smooth muscle bundles, blood vessels, and mature adipose tissue. The muscle component was predominant without any atypia or mitoses. In immunohistochemistry analysis, SMA was positive in smooth muscle cells, while S100 and CD31 were negative. Finally, the patient was diagnosed as cutaneous AML. To our knowledge, only 5 cases of cutaneous AML have been reported in the Korean literature. Herein, we report a rare case of cutaneous AML which developed on the right great toe.

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