

# Rhabdomyomatous mesenchymal hamartoma presenting as a skin tag in a newborn



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## INTRODUCTION

Rhabdomyomatous mesenchymal hamartoma (RMH) is a rare congenital lesion in the dermal and subcutaneous tissues of newborns that was first described as a striated muscle hamartoma in 1986 and named in 1989.<sup>1</sup> Since then, 65 cases have been reported in the literature, some in association with other congenital abnormalities.<sup>2,3</sup> Most cases have been described in young patients on the head and neck, but cases have also been reported on the tongue, perianal region, vagina, and great toe.<sup>4</sup> On histologic examination, RMH consists of striated muscle bundles, adipose tissue, blood vessels, collagen, and nerves.<sup>5</sup> We report a case of a solitary RMH presenting as a skin tag on the midline chin of a newborn boy.

## CASE REPORT

A 15-day-old boy born at 38 weeks of gestation presented with a skin-covered, smooth, polypoid papule measuring 0.7 × 0.5 × 0.5 cm protruding from the chin (Fig 1). Histologic examination of the skin tag and subcutaneous tract showed a polypoid portion of benign hair-bearing skin with numerous bundles of normal-appearing skeletal muscle at the core with associated nerves and dense collagen (Fig 2). A diagnosis of RMH was made, and the lesion was excised under local anesthesia. No recurrence has been observed.

## DISCUSSION

RMH is a rare, congenital lesion characterized histopathologically by a disordered array of striated muscle bundles and several tissues of mesenchymal

### Abbreviation used:

RMH: rhabdomyomatous mesenchymal hamartoma



**Fig 1.** Smooth midline polypoid papule on the chin at presentation.

origin such as adipose tissue, blood vessels, and collagen.<sup>6</sup> RMH usually presents as a solitary lesion on the head and neck in infancy or childhood and is slightly more common in boys than girls.<sup>3</sup> The presenting lesions are often described as polypoid, as in our case; smooth papules, nodules, or subcutaneous swellings have also been reported.<sup>4-6</sup> RMH may be associated with congenital anomalies such as Delleman syndrome, ocular abnormalities, amniotic band syndrome, Goldenhar syndrome, cleft lip or gum, nasofrontal meningocele, and spinal dysraphism.<sup>2,3,7</sup> Although the etiology of RMH is

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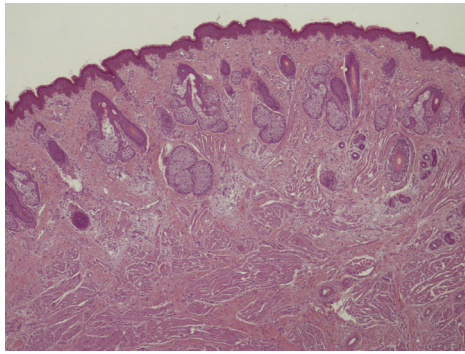
Conflicts of interest: None declared.

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**Fig 2.** Hair-bearing skin with bundles of haphazardly arranged skeletal muscle and occasional nerves within the dermis and associated with adnexal structures. (Hematoxylin-eosin stain; original magnification:  $\times 25$ .)

unknown, possible explanations include aberrant migration of embryonic mesenchymal tissue or abnormal development of mesodermal-derived somite cell populations.<sup>7</sup>

The differential diagnosis of this case included accessory tragus and congenital midline cleft; however, skeletal muscle is never a prominent feature of accessory tragi, and congenital midline clefts usually present on the anterior neck.<sup>8</sup> Surgery is the primary treatment of RMH usually with full recovery and no recurrence, although laser treatment has also been described.<sup>5</sup>

We report a case of RMH arising as a skin tag on the chin of a male newborn and describe the histo-

logic findings that allow this entity to be diagnosed. RMH should be considered in the differential diagnosis of infants presenting with polypoid lesions, particularly those that are midline.

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