Case Report

Persistent Salmon Patch on the Forehead and Glabellum in a Chinese Adult

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Salmon patches are present in approximately 44% of all neonates. The lesions tend to fade with time and those on the glabellum, eyelids, nose, and upper lip are rarely detected after the age of 6. We report a 33-year-old Chinese female with a salmon patch on the forehead and glabellum. To our knowledge, the occurrence of a salmon patch on the forehead and glabellum in adulthood has not been reported. The persistent salmon patch on the face of an adult is benign and not associated with any neurocutaneous syndrome or underlying vascular abnormality. The color of the lesion can be ameliorated with laser therapy if cosmesis is a concern.

1. Introduction

Salmon patches, also known as nevus flammeus simplex, are the most common vascular lesions in infancy [1]. Colloquially, the lesions on the forehead and eyelids are known as “angel’s kisses” and the ones in the occipital area as “stork bite marks” [1]. Presumably, salmon patches are composed of ectatic dermal capillaries that represent the persistence of fetal circulating patterns in the skin [2]. In the Caucasian population, salmon patches are present in approximately 44% of all neonates [2]. They are much less common in dark-skinned neonates [3]. Both sexes are equally affected [3]. The lesions tend to fade with time and those on the glabellum, eyelids, nose, and upper lip are rarely detected after the age of 6 [1]. We describe a 33-year-old female with a salmon patch on the forehead and glabellum. To our knowledge, the occurrence of a salmon patch on the forehead and glabellum in adulthood has not been reported.

2. Case Report

A 33-year-old Chinese female presented with pain in the neck, back, and shoulders as a result of a motor vehicle accident. On examination, there was tenderness and hypertonicity in the paraspinal muscles in the cervical area, paraspinal muscles in the lumbar area, and trapezius muscles. Incidentally, a salmon patch was noted on the forehead and the glabellum (Figure 1). The patch was faintly erythematous in color. There were no other salmon patches noted on any parts of her body. The rest of the physical examination was unremarkable. In particular, she did not have dysmorphic features or hepatomegaly.

According to the patient, the patch was present at birth but was erythematous in color. She did not have similar erythematous patches elsewhere such as the eyelids, nose, philtrum, lips, and the occipital areas. She recalled that the patch would deepen in color with crying and vigorous activity. The color of the patch had become lighter over time. She was born to a gravida 3, para 2, 24-year-old mother at term following a normal vaginal delivery and an uncomplicated pregnancy. The mother was not on any medication or alcohol during the pregnancy. The parents were nonconsanguineous. No family members had similar skin lesions in adulthood.

3. Discussion

Clinically, the lesions of salmon patches are scarlet to pink, flat, can be totally blanched, and usually deepen in color...
Some investigators, however, believe that salmon patches on the forehead and the glabellum may be a forme fruste of congenital medial frontofacial capillary malformation.

Salmon patches tend to fade and disappear with time; nuchal lesions tend to persist longer [3, 10, 11]. Leung and Telmesani examined 808 Caucasian newborn term infants (440 males and 368 females) and 1,575 Caucasian children for the presence of salmon patches [2]. The patches were present in 192 (43.6%) males and 161 (43.8%) females in the neonatal period. The most frequent site was the nape, followed by the glabellum, eyelids, nose, and upper lip. Salmon patches were not detected in boys after age 6 and in girls after age 5. On the other hand, Oster and Nielson detected nuchal salmon patches in 501 (46.2%) of 1,084 Danish school-aged girls and 382 (35.1%) of 1,087 Danish school-aged boys [12]. Corson found nuchal salmon patches in 13 (4.7%) of 275 medical students [10]. Verbov and Steinberg examined 188 hospital inpatients and old-aged residents (67 males and 121 females), aged 60 years and over, for the presence and absence of a salmon patch over the occiput and nape [11]. Forty (60%) of the males and 51 (42%) of the females showed typical nuchal patches. From these studies, it seems clear that salmon patches are common in the neonatal period. These patches, except those located in the occiput and nape, tend to disappear or significantly regress with time. Those in the occiput and nape tend to persist longer. Facial lesions are rare after puberty and have not been reported in adulthood. We herein report the occurrence of a salmon patch on the forehead and glabellum of a Chinese adult. With the reporting of this case, it is hoped that similar cases will be forthcoming. Familiarity of the existence of salmon patch on the forehead and glabellum in adulthood would allow a straightforward diagnosis to be made and unnecessary referrals to be avoided.

The persistent salmon patch on the face of an adult is benign and not associated with any neurocutaneous syndrome or underlying vascular abnormality. The color of the lesion can be ameliorated with laser therapy if cosmesis is a concern.

4. Conclusion

Salmon patches, except those located in the occiput and nape, tend to disappear or significantly regress with time. Facial lesions are rare after puberty and have not been reported in adulthood. We report a 33-year-old Chinese female with a salmon patch on the forehead and glabellum. To our knowledge, the occurrence of a salmon patch on the forehead and glabellum in adulthood has not been reported.

Conflict of Interests

Professor Leung, Dr. Barankin, and Professor Hon have disclosed no relevant financial relationship. They have received no external funding for the preparation of this paper.
References


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