Treatment of basal cell carcinomas and basaloid follicular hamartomas in basal cell nevus syndrome children and adolescents

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Dear Editor,

Patients with basal cell nevus syndrome (BCNS) can develop over hundreds of basal cell carcinomas (BCCs) in their lives, of which the first can already be seen in early childhood. In children and adolescents, typically tens of shiny, sometimes pigmented, papules can be present at once, histologically diagnosed as BCCs or basaloid follicular hamartomas (BFHs), recognized as part of the cutaneous tumor spectrum in BCNS (1). Surgery can be painful and traumatizing, and scars can be mutilating due to the high number of lesions in BCNS patients. Left untreated, the lesions can progress and treatment can be more challenging, resulting in larger scars. Imiquimod 5% cream has proven to be a very effective noninvasive therapy for BCCs, with a cure rate of ~80%, 5 years after treatment (2). Prior curettage can shorten imiquimod treatment duration with comparable cure rates (3). Especially in BCNS, a large advantage is that multiple lesions can be treated at once. Here, we describe a case series of young BCNS patients with multiple small BCCs or BFH treated with curettage and imiquimod 5%.

Between January 2017 and February 2020, 100 clinical BCCs or BFHs were treated with curettage followed by imiquimod cream application in 4 BCNS patients with a confirmed germline PTCH1 mutation. Curettage was performed under general anesthesia (for other reasons) in a 4-year old patient and an hour after application of lidocaine/prilocaine in the older patients (14, 19 and 20 years old). Lesions were 1-5 millimeters and located on the trunk (77), neck (13), arms (6), legs (2), and face (2). In all patients, at least one lesion was histologically confirmed to be a BCC. A mean number of 14 lesions were curettaged per session (range 4–23) and patients applied imiquimod 5% cream 5 days/week during 6 weeks, using 1 sachet (250 mg) per day. Treatment results were evaluated on follow-up visits each 4-6 months based on photographs taken before treatment (Figure 1). Median follow-up time of all BCCs was 11 months (range, 5-26 months), in which 6 of 100 BCCs recurred. One patient reported mild pain during both curettage (after lidocaine/prilocaine) and imiquimod treatment, but preferred it over excision. No other side effects were mentioned and none of the patients was lost to follow-up.

Imiquimod was previously described in the treatment of BCCs in 3 BCNS-children, with partial response following application 3 days/week for a total duration of at least 8 weeks (4). Based on the results of a recent RCT, we used the recommended schedule of 5 days per week for 6 weeks (3). Safety data on imiquimod treatment in children is sparse, but in several phase II trials there was low systemic exposure and side effects consisted mostly of application site reactions (5).

Based on our small case series, curettage followed by imiquimod 5% cream seems effective in the treatment of multiple small BCCs at once. The use of appropriate anesthesia is important to prevent traumatizing procedures in young BCNS patients who will need medical care for the rest of their lives.

Figure 1. (A) Overview of the back of a patient before treatment; multiple lesions. (B) Overview of the back 26 months after treatment; no recurrences but multiple new lesions.
Disclosure statement
No potential conflict of interest was reported by the author(s).

Consent for publication
The patient in this manuscript has given written informed consent to publication of the photographs.

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