

## PICTURE STORY

**From a blackened birthmark to the blooming brain**

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**Background**

Malignant melanoma has a prevalence of about 1.52 per 100,000 population in Sri Lanka according to the WHO cancer fact-sheet 2020 [1]. Melanoma warrants complete surgical cure by simple excision when diagnosed early. However, prognosis rapidly declines with metastatic disease. We present a picture story of a patient with metastatic malignant melanoma which was missed at the onset because the lesion developed from a congenital melanocytic naevus over his back.

**Case vignette**

A 71-year-old male, sand-miner by profession, was brought by the family due to worsening confusion and ill-health over the preceding 2 months. Thorough examination revealed an apathetic fair-skinned man with generalized lymphadenopathy, multiple skin nodules over the chest and back suggestive of 'sebaceous cysts' (Figure 1) and an irregular shaped, variegated naevus over the back



**Figure 1. Multiple subcutaneous nodules mimicking sebaceous cysts the neck and chest wall.**



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(Figure 2) which had been there since birth but the family claimed to have noted recent enlargement. The right axillary lymph-node was noted to be pigmented during the excision biopsy (Figure 3). Due to the new onset cognitive decline and confusion a non-contrast CT brain was performed which showed multiple hyperdense and 'ring-enhancing-like' lesions with significant perilesional oedema (Figure 4). Histological analysis of the excision biopsied lymph-node and the skin nodules confirmed the diagnosis of metastatic malignant melanoma (Figure 5). Serum lactate dehydrogenase (LDH) level was 1050 IU/l. The patient was referred to the oncology team for immunotherapy. The patient passed away during oncological treatment due to pneumonia.



Figure 3. The excision biopsy specimen of the right sided pigmented axillary lymph node.



Figure 2. The irregular shaped, variegated lesion over the back of the chest.



Figure 4. The Non-contrast CT brain showing ring-enhancing-like hyperdense lesions.

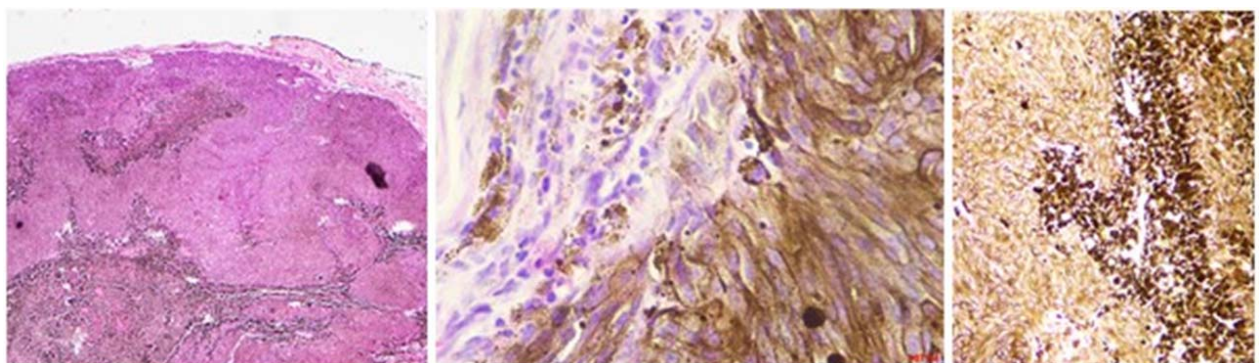


Figure 5. H & E (left) and MART (middle and right) appearance of the histology specimen of the lymph node.

## Discussion

Malignant melanoma (MM) can spread to any organ in the body. Lymph nodes are the earliest site of spread followed by skin. Skin deposits can mimic a number of benign skin conditions. Above patient's skin deposits mimicked multiple sebaceous cysts at first impression, partly due to the inherent bluish hue of the sebaceous cysts but were histologically confirmed as metastatic deposits. Brain metastasis confer the worst prognosis in MM along-with serum LDH level. The interesting contrast-enhanced appearance of melanoma brain deposits in Non-contrast CT brain is due to the common occurrence of haemorrhage in these lesions. In certain cases, there is no active haemorrhage at diagnosis but the hyperdensity in the imaging is due to previous bleeding causing haemosiderin deposition and not the presence of melanin [2].

Although the median time from onset to distant metastasis is 25 months [3], diagnosis is often delayed because of hidden sites of primary lesion including head, neck or back as in this case, and lack of awareness among patients about self-examination for concerning skin lesions and sinister signs to look for in a longstanding naevus. Another contributory factor is the lack of knowledge among non-dermatology medical practitioners about total body examination for skin cancer in Sri Lanka, according to a cross-sectional study by Herath et al in 2018 [4]. The authors emphasize the importance of thorough clinical

examination as the single most important diagnostic clue in a patient presenting with non-specific symptoms, which cannot be replaced by any investigation in solving the clinical problem at the earliest.

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