Neurofibromatosis type 1 (NF1) with vocal cord palsy: baffling presentation of a benign tumour

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DESCRIPTION
A 33-year-old man presented with hoarseness of voice, cough and choking while eating for 1 week’s duration. His sister was diagnosed with neurofibromatosis but was asymptomatic. Two years previously he had paraparesis due to a dumb-bell neurofibroma of the posterior mediastinum with intraspinal extension, which was excised with full recovery, but the lesion recurred and a re-excision was performed with histopathological confirmation as neurofibroma. On examination the patient was conscious with stable vitals. Multiple, extensive neurofibromas were seen on the face (figure 1A) and plexiform lesions over the trunk with scars of previous surgical incisions of biopsy (figure 1B). He had left vocal cord paralysis, confirmed by indirect laryngoscopy. Chest radiograph anteroposterior view showed a homogeneous large mass with well-defined rounded margins in the upper left zone (figure 2A, arrow 1), displacing the trachea and the superior mediastinal structures to the right side (figure 2A, arrow 2) and elevation of the left dome of the diaphragm, suggesting left phrenic nerve involvement (figure 2A, arrow 3). The CT scan of the chest showed a soft tissue mass 12 × 11.6 × 10.6 cm, displacement of arch of aorta thus compressing the recurrent laryngeal nerve (top arrow), and the trachea and oesophagus displaced to the right and anteriorly (upper arrow), and erosion of the left rib (bottom arrow). The patient was unwilling for surgery. We present an unusually large neurofibroma type 1 (NF1), which resulted in recurrent laryngeal nerve palsy.

NF1, also known as von Recklinghausen disease, is a rather common genetic disease, affecting approximately 1 in 3000 individuals.1 There is currently no cure for NF1 and surgical treatment is aimed at alleviating the symptoms that arise when NF tumours compress nearby bodily tissues, which can cause damage to those tissues or organs.1

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Figure 1 (A) Multiple, extensive neurofibromas were seen on the face with the nasogastric tube; (B) plexiform lesions over the trunk with scars of previous surgical incisions of previous biopsy.
Learning points

- Neurofibroma (NF) as a cause for recurrent laryngeal nerve paralysis is rare.2–3
- No known medical therapies are beneficial to patients with NF1.4
- To prevent local recurrence, wide en bloc resection is the treatment of choice.5
- Surgical intervention may not guarantee a complete resection of the tumour, but it may serve a palliative function.1
- If the patients elect not to attend a specialist NF1 clinic, they should be fully conversant with the problems that they might encounter.6

Contributors

RC was the primary clinician under whom the patient was admitted, investigated and treated. TV, MS, PR were the residents and final year electives in charge of the case. All the authors had an equal role in writing, editing and formatting the manuscript and also in following up the patient.

Competing interests

None.

Patient consent

Obtained.

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