Retrospective analysis of paediatric lid lesions at Southampton General Hospital assessing correlation between clinical and histological diagnosis over 11 years

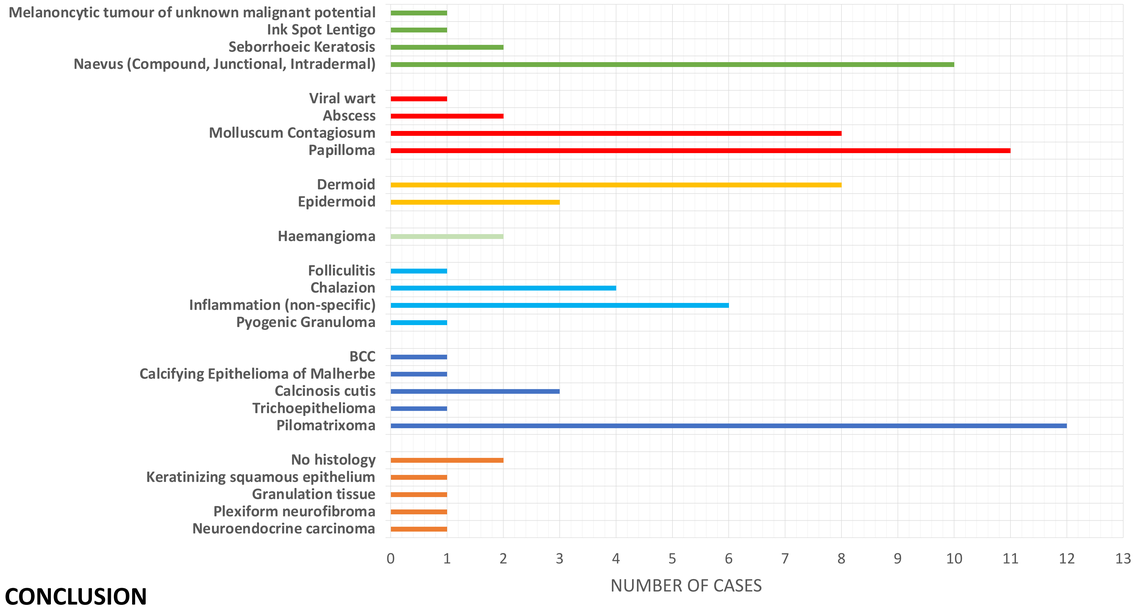
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AIM

To correlate and assess the accuracy of clinical diagnosis in comparison to histological results in paediatric patients with periocular lid lesions at a large tertiary centre, University Hospital Southampton

Histological Diagnosis (Fig 1.)



CONCLUSION

- There is a significant variation in the accuracy of the clinical diagnosis of paediatric lid lesions
- Molluscum and papilloma have high diagnostic accuracy rates
- Pilomatrixoma despite being the most common lesion has the least clinical diagnostic accuracy
- Cancerous lesions can be present in children so have a low threshold to biopsy unusual lesions
- There is a trend towards the oculoplastic team managing paediatric lid lesions so patients should be referred to specialist clinics

RESULTS

- 85 lesions were identified in total and categorised into: *Pigmented*, *Infective*, *Congenital*, *Dermatological*, *Vascular*, *Inflammatory*, *Miscellaneous* (Fig 1).
- Average age of the operated patient was 8.8 with an age range of 1-17.
- Overall the clinical diagnostic accuracy rate was 40% (34/85).
- Only 14% of the pigmented lesion were accurately diagnosed.
- 22 infective lesions were identified with a high diagnostic accuracy of 82%.
- 11 lesions were congenital lesions.
- Dermoid cysts were the most common and 88% of these were correctly identified clinically.
- 18 were identified as other dermatological lesion.
- Despite being the most common lesion only 8% of pilomatrixoma were diagnosed accurately.
- There was a further 2 vascular lesion and 12 inflammatory lesions.
- 6 lesions were labelled as miscellaneous

Grade of Doctor Operating	Number of procedures performed
Oculoplastic Consultant	34
Paediatric Consultant	20
Other Consultant	1
Oculoplastic Fellow	6
Paediatric Fellow	3
Trainee	10
Paediatric Specialty Doctor	11

TABLE 1.

TABLE 1 Explained:

From 2010 – 2014 the surgeries were predominantly being performed by the paediatric team

Cases were then taken over by the oculoplastic team from 2014

From 2019 onwards no cases were performed by paediatric consultants

35% clinical diagnosis accuracy rate in Oculoplastic consultant cases

45% clinical diagnosis accuracy rate in Paediatric consultant cases

METHODOLOGY

- Medisoft search
- 11 years data
- 2010 – 2021
- < 18 years of age at time of surgery
- No restrictions on who performed the procedure

Clinical diagnosis was obtained from last clinical letter or from the clinical details on the histological request

Histological diagnosis was obtained from the histological report on CHARTS

Procedures searched for on medisoft:

- excision of lesion of eyelid
- excision of lesion of eyebrow
- eyelid incisional biopsy
- excision of lesion of canthus
- excision of skin lesion
- eyelid biopsy
- eyelid shave biopsy
- eyelid excisional biopsy
- biopsy of skin lesion