

Designing a coordinate skin mapping system for skin cancer surgeries on the head for preventing wrong-site surgeries

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Abstract

AIM: Surgical site accuracy in skin cancer surgery has been and will stay as a never-ending concern. Several methods are used for the purpose including photography, marking unified or self-drawn diagrams and written description in the notes. In our suggested, easy still accurate system, skin lesions can be pinpointed depending on head coordinates and measuring distances.

Methods: Using aesthetic subunits can be feasible in defining a surgical site especially on areas with several units such as ear and nose. Still, it can be challenging in describing two or more lesions on the same subunit. Marking plain 2d or 3d models is operator dependent and does not consider individual sizing variations that occasionally will not fit in the model used. A coordinate system that depends on crossing landmark lines in two dimensions and

numerical measurement may be the solution for localizing lesions on head and neck. There is no need for models to be in each patient's notes. Only both ends of the referral process should have them to make the marking easier.

Conclusion: Conclusion Surgical site accuracy has been and will stay a never-ending concern. In the previously detailed innovative system, an easy, still accurate, method is demonstrated. Testing its specificity and sensitivity against other methods such as description in the notes using zones or aesthetic subunits, patient description and photographs will be the prospective step to do.

Biography

Eleni Hadjikyriacou undertook her primary medical qualification, Masters in Medicine, at the age of 24 years from University of Debrecen, Hungary. Following graduation she began her foundation training in UK, at general surgery department in Harrow Hospital, London. She is currently a Core Surgical Trainee in Plastics at Morristons Hospital in Swansea.