

Cleft, the transverse dimension: CSAG vs CCUK

Principle Applicant: Charlotte Molyneaux

Scientific outline

Aim: To determine changes in the transverse dimensions of maxillary unilateral cleft lip and palate patient populations between the CSAG and CCUK studies.

Design: Retrospective analysis of data collected by the CSAG and CCUK projects.

Population: All available models from five-year-olds with nonsyndromic UCLP from CSAG and CCUK projects.

Ethics: The original CCUK study obtained full ethical approval (REC reference number 10/H0107/33, South West 5 REC).3

The project has been registered as service evaluation with UH Bristol.

Data collection and management: CSAG and CCUK maxillary models will be digitally scanned. Measurements of the intercanine, intermolar and palatal depths will be gained. The arch shape of the maxillary models will also be described.

As both the studies collected data from unilateral cleft lip and palate patient populations at the age of 5 years this will allow assessment of the transverse dimension prior to any significant orthodontic intervention. Thus, the findings will give an impression of the surgical success of the cleft repair.

Study Limitations: Accuracy of data collection by CSAG and CCUK. Accuracy of digital plotting of identified points. Sample size.

Research Management: The investigator will perform this study based at the Royal United Hospital Bath and the Bristol Dental Hospital under the direction and supervision of Professors Sandy and Ireland and Dr Waylen. Results of this research will be written up as a DDS project as well as scientific papers submitted for publication in peer-reviewed journals.

Keywords: Complete unilateral cleft lip and palate, CSAG, CCUK, transverse dimension, maxilla.