## Scientific abstracts from the ninth annual ACOMS residents meeting November 14, 2020, virtual presentation format

The Ninth Annual American College of Oral and Maxillofacial Surgeons Residents Meeting convened November 14, 2020, in a virtual presentation format. Special thanks are owed to the scientific chair for the meeting, Dr. Thomas Schlieve.

All attendees were invited to submit scientific abstracts or case reports for oral presentation at the meeting. Twenty-four abstract and case report authors shared their research and all accepted scientific abstracts were eligible for publication. We are pleased to announce the winner of the Resident Abstract Competition.

## **OUTSTANDING SCIENTIFIC ABSTRACT**

## TIMING IS EVERYTHING: MEASURING OUTCOMES IN PRIMARY CLEFT RHINO-

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**Purpose:** The timing of ideal repair of the cleft nasal deformity has been a contentious topic among craniomaxillofacial surgeons over the last several decades. Several tissues are adversely affected, from bone through the vestibule, cartilage, and external skin. While surgical techniques, paradigms and philosophies have evolved, several important considerations are factored into the clinical decision making to perform a rhinoplasty at the time of cleft repair, such as growth interruption and several craniofacial growth centers, scarring, and the predicted aesthetic result at growth maturity. To this end, we investigated the safety profile, hospitalization characteristics and costs of primary cleft lip repair with and without rhinoplasty.

**Methods:** A retrospective cohort was designed using the Kids Inpatient Database (KID), which is comprised of databases organized by the Healthcare Cost and Utilization Project. Data were collected from January 2000 to December 2011 and included infants 12 months and younger who underwent complete and incomplete cleft lip repair. Data were excluded if records did not include age at time of cleft lip repair. Predictor variables included extent of the initial cleft surgery, with or without rhinoplasty. Outcome variables included length of stay, total charges, and overall complications. Demographic characteristics included age, gender, race, insurance status, and median household income. Independent t-tests and chi-square tests were performed. Multiple linear regression models were used to analyze continuous variables, and a P value of .05 was considered statistically significant.

**Results:** The study sample included 4559 infants, of whom 1422 (31.2%) underwent primary cleft rhinoplasty. Primary cleft rhinoplasty patients had a significantly shorter length of stay (1.6 vs 2.8 days, P < .01) compared to the nonrhinoplasty cohort. However, the hospital charges between both groups were

not significantly different, suggesting that the cost of additional rhinoplasty offset the cost savings of the shorter length of stay. There was a significant increase in the inclusion of rhinoplasty with cleft lip repair over time (P < .01). A greater proportion of patients with unilateral cleft lip received a rhinoplasty (33.8% vs 26.0%, P < .01). Likewise, patients without cardiovascular anomalies (31.6% vs 24.4%, P = .02), patients with a cleft palate (33.1% vs 28.6%, P < .01), and patients treated in urban settings (72.9% vs 69.1%, P < .01) were more likely to undergo primary cleft rhinoplasty. The proportion of African Americans undergoing primary cleft rhinoplasty was less than that of the other cohort (4.6% vs 7.3%, P < .01). Similarly, the proportion of patients from the lower income quartile was less in the rhinoplasty cohort compared to that of the nonrhinoplasty cohort (23.3% vs 28.1%, P < .01). Patients treated with rhinoplasty were slightly older at the time of admission (4.2 vs 4.0 months, P = .03).

Conclusion: Performing primary cleft rhinoplasty is becoming more commonplace among pediatric craniomaxillofacial surgeons. Although concomitant rhinoplasty at the time of primary cleft lip repair is more costly, the length of stay in the hospital setting was shown to be shorter. Future studies should further investigate the safety profile and risk of postoperative complications in the rhinoplasty vs non-rhinoplasty cohort in primary cleft lip repair patients.

## EFFECTIVE METHOD OF LOWERING MRSA CARRIAGE RATES ON SURFACES IN A DENTAL SCHOOL—BASED ORAL & MAXILLOFA-

CIAL SURGERY CLINIC Kyle Frazier, DDS, Mark Stevens, DDS, Catherine Jauregui, PhD, Craig Taylor, DMD, Stephen Looney, PhD, and Rebecca Paquin, DMD, MD, The Dental College of Georgia at Augusta University

**Purpose:** The purpose of this study was to test whether the placement of a standardized cleaning protocol in oral and maxillofacial surgery operatories could effectively reduce MRSA (methicillin-resistant *Staphylococcus aureus*) colonization rates on operatory surfaces.

**Methods:** Eight operatories were each swabbed at 6 different sites using a moist sterile swab (Amies gel with charcoal). The sites were right light handle, right armrest, headlight band, headlight bulb cover, handpiece buttons, pen from pen pad. Swabs were immediately transported to the microbiology lab and inoculated onto agar media, 3 plates/swab. MRSA colonizations were counted. Rooms were initially swabbed twice approximately 2 months apart, without prior notice being given (experiment 1 and experiment 2, respectively). Following the posting of room cleaning protocols, the rooms were reswabbed following a further 2-month period (post-Standard Operating Procedure).

**Results:** For those sites resulting in the isolation of MRSA, the total count for all 6 sites was 5 for experiments 1 and 2; hence, the RR (relative risk) for the comparison of experiments 1 and 2 was  $1.00 \ (P = 1.000, 95\%)$  confidence interval, 0.27-3.72). In the post-SOP period, the total count was 0 for all 6 sites (Figure 1c); thus, the RR for the comparisons of experiment