Anatomic Right MEHLP
1. Coronal Cut CT view through paranasal sinuses. Illustrations depict dissection technique.

Introduction

The Modified Endoscopic Lothrop Procedure (MELP), as described by Scott et al., is a technique that offers access to both lateral and supraorbital frontal sinuses from a single incision in the upper eyelid. The procedure involves removing the bone of the medial orbital wall, the lamina papyracea, and the floor of the anterior skull base, allowing for access to the frontal sinus.

Methods and Materials

Cadaver Dissection

Cadaver dissection was performed at the UMDNJ – New Jersey Medical School. Dissection was performed with standard technique, at the UMDNJ – New Jersey Medical School. All dissections were performed with a sinus instrumentation set. Standard 30° and 70° endoscopes were used interchangeably.

Conclusion

A limited number of cadaveric studies have described the use of the Modified Endoscopic Hemi-Lothrop Procedure (MEHLP) to provide access to the lateral frontal sinus. We describe a new adaptation of this technique, the Modified MEHLP (MEHLP®), which we believe will decrease the potential post-operative morbidity by limiting dissection to the ipsilateral nasal cavity.

References

Gross WE, Gross, CW, Becker D, Moore D, Phillips D. Description of Operative Technique: Endonasal view of cadaveric left frontal sinus via Modified Endoscopic Lothrop Procedure. A) Schematic of visual field access via traditional Lothrop procedure. B) Schematic of visual field access via Modified Endoscopic Hemi-Lothrop Procedure via contralateral nasal cavity. 2-4 In this anatomic cadaver study, we demonstrate a new adaptation of the previously described MELP, which we have titled Modified Endoscopic Hemi-Lothrop Procedure (MEHLP®). This study was supported by an unrestricted educational grant from the Dean's Office of New Jersey Medical School.