

PROTOCOL SUMMARY

Title: Anterior Openbite Malocclusions in Adults: Recommendations, Treatment, and Stability.

Précis: Almost all research on AOB treatment and stability is from retrospective case series. Therefore, this study has tremendous potential to provide practitioners with stronger evidence about AOB treatment outcomes and stability for adults. It will also provide information about retention outcomes. Additionally, the gathering of patient-reported data about the decision to pursue a specific treatment option and patient satisfaction after treatment may be extremely valuable.

This is a prospective, observational 3.5 year cohort study of approximately 840 adult patients in active orthodontic treatment for anterior openbite (AOB) who **expect** to have treatment completed within 24 months of enrollment into the study from approximately 210 National Dental Practice-Based Research Network (National Dental PBRN) orthodontists or dentists who routinely perform orthodontic treatment.

Objectives: **Primary:** The primary objective is to estimate the proportion of patients 1) treated successfully (determined at end of active treatment), and 2) whose treatment is stable (determined at one year post active treatment).

The primary outcome measure to determine success of treatment will be overbite at the end of treatment, and the primary measure to determine stability of treatment ascertained one year after removal of orthodontic appliances is the overbite measurement.

Secondary: The secondary objectives are to:

1. Identify how dentofacial characteristics, as well as patient and practitioner characteristics, influence:
 - a. Treatment recommendations, and
 - b. Acceptance of treatment recommendations.
2. Identify how treatment modalities, as well as dentofacial, patient, and practitioner characteristics, are associated with the following, both determined at the time orthodontic appliances are removed (end of active treatment):
 - a. Treatment success, and
 - b. Patient satisfaction.

3. Identify how retainer regimens, as well as treatment modalities, dentofacial, patient and practitioner characteristics are associated with the following, both determined one year after end of active treatment:
 - a. Treatment stability, and
 - b. Patient satisfaction.

Population: The study will include approximately 840 adult National Dental PBRN practice AOB patients age 19 or older that are currently in active treatment, and **expect** to have treatment completed within 24 months of enrollment into the study.

Number of Sites: Approximately 210 National Dental PBRN practitioners.

Study Duration: Approximately 3.5 years

Subject Participation Duration: Approximately 3 years

Estimated Time to Complete Enrollment: Approximately 6 months

