



A Comparative Study of ClinCheck Software Utilization by Invisalign® Providers in the Las Vegas Metropolitan Area

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INTRODUCTION

For proper utilization of Invisalign, the clinician must be trained to use the Invisalign ClinCheck software to view and manipulate the virtual models. However, novices may overlook the importance of proper ClinCheck modification and inappropriate treatment may result. Nowadays, many general dentists are practicing orthodontics through Invisalign with its relative easiness, and therefore, it is worthwhile to investigate how different Invisalign providers utilize the ClinCheck software. The purpose of this study is to give information on the frequency and the amount of time Invisalign providers are spending on initial ClinCheck, midcourse correction and final refinement, and show if there are variables such as volume of patients seen per day, providers' experience with Invisalign, adjustment of fee, and the status of employment that affect how providers utilize ClinCheck.

OBJECTIVES

To compare how much time and how many modification general dentists and orthodontists are making for Invisalign ClinCheck software modification, along with the variables including volume of patients, providers' experience with Invisalign, status of employment and adjustment of fee.

MATERIALS AND METHODS

In this cross-sectional survey study, a web-based survey of 20 questions, with Qualtrics as the platform, will be emailed to 605 Invisalign providers in the Las Vegas Metropolitan Area (515 general dentists and 90 orthodontists). The resulting data will be analyzed with statistical software, SPSS version 25.0 through Pearson's Chi-square test in order to study the association among categorical variables of our interest.

RESEARCH QUESTIONS

1. How do Invisalign providers with different educational background in orthodontics differ in the way they review and modify Invisalign ClinCheck software?
2. How do the variables such as volume of patients per day, providers' experience with Invisalign, status of employment, and adjustment of fee affect providers' ClinCheck modification?

HYPOTHESES

1. There is no difference in the number and the amount of time for ClinCheck modification between general dentists and orthodontists.
2. There is no difference in the number and the amount of time for ClinCheck modification among doctors working in different clinical settings.
3. There is no difference in the number and the amount of time for ClinCheck modification among doctors with different clinical experience
4. There is no difference in the number and the amount of time for ClinCheck modification among doctors with different volume of patients per day.
5. There is no difference in the number and the amount of time for ClinCheck modification among doctors who does or does not adjust the fee based on the number of anticipated refinements.

VARIABLES

- Years of experience in Invisalign
- The average number of Invisalign patients per day
- The average number of total patients per day
- Education level (Specialty vs GP)
- Adjusted fee for multiple refinements (Yes vs No)
- Status of employment

RESEARCH DESIGN & SAMPLE

- Cross-sectional survey study
- Population size
 - 515 General Practitioners
 - 90 Orthodontists
- Web-based survey through emails provided on Align Technology website
- One-primary emails and two-reminding emails to be sent

INCLUSION/EXCLUSION CRITERIA

Inclusion criteria:

- Active general dental and orthodontic licenses of Nevada State Dental Board
- Invisalign providers
- Practice Invisalign in Las Vegas Metropolitan area

Exclusion criteria:

- Orthodontic residents
- Dental students
- Retired orthodontists
- Dentists that are Invisalign providers
- Dentists outside Las Vegas Metropolitan area

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