Maximizing Efficiency in Randomized Clinical Trials: A Decade of Visiontree ePRO **Utilization for Patient Surveys**

INTRODUCTION

The healthcare industry has seen a significant shift towards patient centered care and the integration of technology to enhance the delivery of service. Visiontree is a comprehensive approach that integrates clinic workflow with research data collection using an electronic patient reported outcome (ePRO) platform.

- Background: Patient reported outcomes (PROs) are critical to healthcare research, providing insight into the patients' health and treatment outcomes.
- Problem: Despite the value of PROs, achieving high compliance rates can be challenging. Traditional methods of PRO collection often suffer from missing data and transcription errors, leading to inaccurate information.
- Significance: PRO data from clinical trials are frequently underreported. Providing a method to increase compliance can facilitate future publications.
- Objective: The aim of this proposal is to share the ePRO collection process for a randomized head and neck clinical trial.
- ePROs provide insight of how the patients' view their symptoms
- ePRO platforms can **decrease transcription error, increase compliance,** and **time** savings
- Visiontree, an industry leading, data-first ePRO platform, maximizes patient compliant workflows and data collection.

IETHODS

Protocol title "Phase II/III Randomized IMPT vs. IMRT for the treatment of Oropharyngeal Cancer of the Head and Neck"



MD Anderson Symptom Inventory (MDASI), MD Anderson Dysphagia Inventory (MDADI), FACT-HN, Xerostomia (XQ), EQ-5D-3L and Work Productivity Index (WPAI:SHP).



440 patients across all sites



16 multi-sites



229 patients from MDACC

Materials: Patients use electronic devices such as smartphones, tablets and computers to access electronic forms. The Visiontree automated platform provides pre-built forms, automated reports and analysis tools.

Procedure: Visiontree supported the six pre-built PRO forms that automatically alerted patients to complete questionnaires at protocol specific timepoints (baseline, weeks 1-7 during treatment, recovery, every 3 months the first year, every 4 months the second year and annually through year 5). Automated Visiontree reminders were sent as a secondary method to collect data.

Data analysis: In this analysis the key outcome variable was compliance. Compliance is measured by the percentage of forms completed within a designated timeframe.

Compliance Rate = Number of subjects who complete all forms at a specific timepoint Number of subjects expected to complete forms

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VisionTree

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The use of Visiontree ePRO provides real-time data collection, automated reminders, and interactive interfaces that engage the patient in the reporting process. The Visiontree system enhances patient engagement, facilitates remote monitoring and streamlines the

• Patient compliance: PRO compliance rates ranged from **51%-75%** from the start of

• Time savings: The Visiontree platform decreased the form collection time from an estimated 84 minutes to 3 minutes per patient form at each timepoint. This time savings

Compare with previous research: Literature shows that patient compliance rates can widely

	RESEARCH	RANDOMIZED TRIAL
ND OF TREATMENT	68%	53%
3 MONTHS	52%	61%
12 MONTHS	25%	60%

EHR Integration: Integrating Visiontree with our electronic health records (EHR) creates

• ePRO increases patient compliance by streamlining the collection process. • Utilizing ePRO maximizes time saving and can reduce the cost for research staff.

The use of electronic patient reported outcome measures has shown to maintain

Visiontree ePRO platform offers a streamlined approach to collecting, completing and

The adoption of Visiontree ePRO holds great promise for transforming the way patient-

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