

Collection of patient-reported outcomes (PROs) as a way to monitor symptomatic adverse events is common in cancer trials

Little is known about research staff and patient impressions of barriers and facilitators to PRO data collection

Sixteen clinical research associates (CRAs) out of a pool of 34 randomly selected CRAs at sites administering two multicenter cancer trials in the U.S. National Cancer Trial (NCT) Network that included PROs (NCT01262560 in lung cancer; NCT01515787 in rectal cancer) participated in semi-structured interviews on barriers and facilitators to PRO data collection including technology, training, workflow, effort, and communication

Remaining CRAs pooled for inclusion in group discussions on factors that impeded or helped PRO collection

Patients in two trials (NCT01262560; NCT00578006 in multiple cancer types) completed semi-structured surveys (N=81) on similar topics

Interviews were recorded, transcribed, and de-identified

Coding and thematic analysis employed Microsoft Excel, Dedoose and ATLAS.ti software

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Trial	NCT00578006	NCT01282560	NCT01515787
Cancer Type	Various (e.g.) bladder, breast, cervical, lung, etc.	Lung	Rectal
Trial Arms and Primary Outcome	Weekly PROs at home with automated alerts for concerning symptoms vs. usual care, checking quality of life after six months	Supportive care vs. 40 mL of liquid Manuka honey vs. 8 Manuka honey lozenges with stratification on esophagus percentage (< 30% or >= 30%) receiving 60 Gy radiation, comparing numerical rating pain scale after four weeks	(I) Phase II component: assessing if neoadjuvant FOLFOLX followed by selective use of SFUCMT group (Group 1) maintains high rate of pelvic R0 resection and is non-inferior for time to local recurrence (TLR) (II) Phase III component: determining how neoadjuvant FOLFOLX followed by selective use of SFUCMT (Group 1) compares to standard SFUCMT (Group 2) with respect to the co-primary endpoints of TLR and Disease-Free Survival (DFS)
Number of Sites	1	226	1073
Total Number of Patients	N=766	N = 163	Initial Goal: N = 1060; Est. enrollment N = 1194 as of 3/4/19
Study Duration per Patient	Mean of 7 months	Up to 12 weeks after initiation of chemotherapy	Up to 8 years after initial randomization
Recruitment Dates	2007-2011	February 2012-October 2013	2012 -
Frequency of PROs	Weekly (between visits)	Weekly (baseline, weekly during radiation therapy, and of radiation therapy and at 12 weeks post-initiation of radiation therapy)	Weekly during initial treatment, then every six months after initial treatment phase

Table 1: Summary of the three NCT trials, with CRA interviews sourced from NCT01262560 and NCT01515787 (light blue columns)

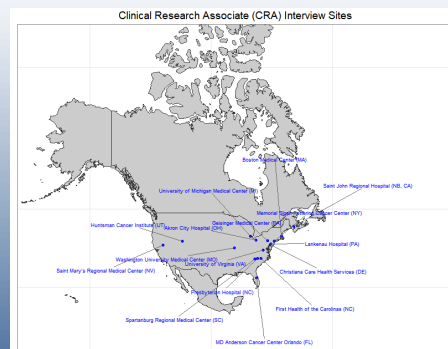


Figure 1: Interview sites for NCT01262560 and NCT01515787 CRAs

[illegible]

Table 2: Summary of the eleven codes used for the sixteen CRA interview transcripts from NCT01262560 and NCT01515787 (No. of excerpts: 502)

Utility of PROs acknowledged by CRAs and patients, but difficulty with collection of information, communication within care teams (e.g. timing of surveys)

Discrepancies noted in symptom reporting to people vs. machines, meaning creatively tailored solutions may be needed for special populations (elderly, visually impaired, poor, etc.)

Connectivity seen as an early challenge for home- and office-based reporting, may diminish with increased smartphone use, computer literacy

Development of best practices, and extension to other demographics, medical conditions

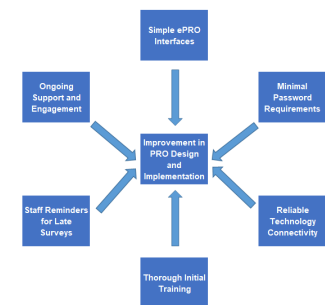


Figure 2: Emerging themes on barriers and facilitators for PRO implementation from CRA interviews and patient surveys

Acknowledgments

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