The Effectiveness of an Innovative Competency-Based Education and Training Program on Decreasing Audit Findings

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1. Background

Routine education and training of staff to build their clinical research competencies is crucial to address any gaps related to clinical research practices, compliance, and audit readiness. The industry standard of the "one-size-fits-all" good clinical practice (GCP) training may not fully prepare investigators, and other research staff for audits. Clinical Research Services Quality Assurance Unit (CRS-QAU) created an innovative education program consisting of tailored training designed to build greater research competencies.

2. Goals

We sought to determine if the innovative education and training program was effective in reducing audit findings within one year.

3. Solutions and Methods

CRS-QAU's education and training program offered GCP training to all new employees on a quarterly basis in 2020. After the audits in 2020, CRS-QAU's education and training administrators reviewed the areas of deficiencies in order to provide tailored training to employees. The innovative, competency-based trainings were offered in 2021 to new and existing employees on a monthly basis. We also provided individualized and group training as needed to support continuous learning and improve performance in their specific roles. Findings from audit reports received from the University of Miami's (UM) internal clinical research auditing body, sponsors, cooperative groups were collected. Audit reports included verification of research compliance, and validation of data submitted by clinical research staff. Audit findings were grouped into eight categories, and differences were analyzed comparing 2020 and 2021 data using the chi square test.

4. Outcomes

Comparing the 2 years, the greatest improvements in compliance occurred in subject accountability, informed consent and subject protection, adverse events reporting (- 91-100%). Substantial improvement occurred in test article, sponsor related, protocol compliance, documentation, and data (- 44-80%). The only area of increase was regulatory (+ 25%). Overall, a 69% decrease in the total number of findings was found in 2021 compared to 2020 [χ 2 (7, 13) = 42.57, P < .001]; [χ 2 (7, 18) = 42.57, P = 0.90, respectively].

5. Lessons Learned and Future Directions

CRS-QAU developed an innovative education and training program for its clinical research teams. Providing ongoing, tailored, competency-based education and training, performed in greater frequency and on an individualized (as needed) basis, is effective for reducing audit findings in key categories and over a short period of time (within 1 year).