**Supplementary Table 1.** *The final version of the 44-task competency survey*

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| **Domain** | **Task Competency** |
| Scientific Concepts & Research Design | * Research grant applications |
| * Completing a literature review to justify study background |
| * Developing study designs |
| * Developing study budgets |
| Ethical and Participant Safety Considerations | * Managing ethical and professional conflicts |
| * Managing clinical study fraud and misconduct |
| * Recognizing, reporting, and following-up on adverse events |
| * Institutional Review Board (IRB) preparation, submission, and modifications |
| * Institutional Review Board (IRB) reporting and termination |
| Investigational Products Development and Regulation | * Pharmacovigilance |
| * Investigational product use instruction |
| Clinical Trial Operations (GCPs) | * Monitoring compliance |
| * Resolving issues related to study protocols |
| * Clinical audits and inspections |
| * Preparing regulatory documents |
| * Tracking regulatory submissions |
| Study and Site Management | * Study protocol, feasibility, and initiation |
| * Completing essential documents |
| * Completing/managing study close-out |
| * Study monitoring according to protocol |
| * Administrative activities associated with clinical trials |
| * Educating research staff |
| * Managing the pre-award grant process |
| * Managing the post-award grant process |
| * Order and maintain equipment and supplies |
| * Collection, processing, and shipping of samples |
| * Complete the start-up process with study subjects |
| * Enrolling, consenting, and educating study subjects |
| * Preparing, implementing, and monitoring data collection |
| * Managing close-out process with study participants |
| Data Management and Informatics | * Reviewing and report a medical record |
| * Collection of data with Electronic Data Capture (EDC) system/Case report form |
| * Data analysis |
| * Managing research databases |
| * Ensuring security of data |
| Leadership and Professionalism | * Supervisory duties |
| * Guiding and instructing my staff to provide quality experiences |
| Communication and Teamwork | * Interpreting results and making recommendations for improvement |
| * Presenting and communicating research findings to a professional audience |
| * Producing scientific publications/publishing research results |
| * Interprofessional collaboration |
| * Organizing study meetings |
| * Leading meetings |
| * Communicating with sponsors and/or key business partners |