Background: North American Association of Central Cancer Registries (NAACCR) was established in 1987 as a collaborative organization for cancer registries, government agencies, professional associations and private groups. NAACCR develops and promotes uniform data standards, provides education and training, certifies population-based registries, processes and publishes data from central registries and promotes the use of cancer surveillance data for research, public health and patient care. Cancer registries in the US include the national central registries, NCI-SEER and CDC-NPCR, individual State registries and hospital-based (care provider-based) registries. The Cancer Research Network (CRN) has adopted NAACCR data standards to define the Virtual Data Warehouse tumor registry table (VDW-TR). However, since the inception of the VDW-TR, there have been many version of NAACCR in effect. Aims/Methods: VDW-TR needed to have similar and merge-able data for multi-site projects. Data standards set by NAACCR are optimal for construction of this resource as they are designed to collect tumor data centrally from multiple data sources. The standards establish processes for data exchange and record layout in addition to coordinating input from sponsoring organizations, such as AJCC and NCI. NAACCR is also responsible for incorporating new items of interest as the data used to characterize cancers evolve. We describe how these changes were incorporated into the VDW-TR. Results: AJCC Collaborative Stage 1 (CS-1), applicable to cases diagnosed beginning with January 2004, brought many changes to data and data formats required for staging. These changes were not incorporated by the VDW tumor file in 2004 due to the lack of ownership and oversight. Discrepancies eventually developed between VDW data dictionary and NAACCR causing data value decay. ICD0-2 histology lists were expanded and recoded in ICD0-3, providing additional challenges, along with other rules-based changes in tumor classification. CS-1 also mandated addition of anatomic site specific factors. Many additional changes occurred in 2010 with CS-2. The specifications incorporated in our current VDW-TR address all of these data changes. Conclusion: The VDW has to adopt NAACCR changes as they are adapted to remain current with all standards. We are now sensitized to monitor and adjust for significant future changes in NAACCR.

Keywords: Tumor registry, NAACCR, VDW

C-A1-02:
Developing a Structure for Programmatic Quality Assurance Checks on the Virtual Data Warehouse

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Background/Aims: The HMORN Virtual Data Warehouse (VDW) has an expanding set of quality assurance data checks developed by its data content work groups. These checks improve the reliability and consistency of the data across sites. When the Center for Effectiveness and Safety Research (CESR) Data Coordinating Center sought to provide additional data checks, it defined a standard methodology for additional validation. The structure and methodology provides a basis to apply data checks consistently across the data content areas. Methods: The CESR Data Coordinating Center created a work group of data warehouse experts and analysts that began by compiling an inventory of existing quality assurance data checks. Using the inventory as a reference, the work group selected data content areas with few existing data checks to identify checks that could be documented and programmed more consistently. The work group developed a structure for defining, documenting, and programming new data checks. Finally, the work group tested and refined its documentation and programming structure for new data checks by creating new checks and learning how they fit into the existing structure. Results: The work group created a consistent process under which new data checks could be defined, documented, and programmed. This process included a structure to: • Improve the consistency of the types of programmatic data checks. • Document the data checks and processes for the VDW CESR Data Coordinating Center quality assurance programs. • Create a structure in which new data checks could be added that would not conflict with existing data checks. • Reuse programming logic across data content areas. Conclusions: This standard methodology enables more consistent implementation and documentation of data checks for the VDW. The methodology also provides information about the outcomes of the data checks which have been processed. Finally, the methodology should allow for quicker development of future data checks.

Keywords: Virtual Data Warehouse, Quality assurance

C-A1-04:
Challenges Faced as New Members of the HMO Research Network Virtual Data Warehouse

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Background/Aims: This presentation will focus on challenges faced by new HMO Research Network (HMORN) sites and their experiences with the Virtual Data Warehouse (VDW) tables for version 3 specifications. The step-by-step procedure developed by Scott and White will be showcased to provide a head start for new incoming sites. Sharing lessons learned during our one year in the HMORN VDW, our objective is to provide best practices for new incoming sites. The more information and guidance the existing members can provide, the better the achieved results will be. Sharing experiences will guide new incoming sites in making the best possible use of VDW. This presentation will highlight our one year in the HMORN VDW, our objective is to provide best practices for new incoming sites. Sharing lessons learned during our one year in the HMORN VDW. Sharing experiences will guide new incoming sites in making the best possible use of VDW. The comprehensive procedure followed by Scott and White will be highlighted to provide a head start for new incoming sites. Sharing lessons learned during our one year in the HMORN VDW. Our objective is to provide best practices for new incoming sites. Sharing experiences will guide new incoming sites in making the best possible use of VDW. The comprehensive procedure followed by Scott and White will be highlighted to provide a head start for new incoming sites. Sharing lessons learned during our one year in the HMORN VDW, our objective is to provide best practices for new incoming sites. Sharing experiences will guide new incoming sites in making the best possible use of VDW. The comprehensive procedure followed by Scott and White will be highlighted to provide a head start for new incoming sites. Sharing lessons learned during our one year in the HMORN VDW, our objective is to provide best practices for new incoming sites. Sharing experiences will guide new incoming sites in making the best possible use of VDW.