Workshop: Data Quality Beyond Edits. It is not meant to lay out a specific methodology, but rather to serve as a guide for registries who wish to conduct more extensive quality control activities not validated by standardized edits. For more tools and resources visit www.naaccr.org.

Sources for Quality Control Task Resolution

Cases with discrepancies identified during quality control tasks can be resolved using a variety of sources. Time available for resolution may depend on registry workload and personnel resources.

1.   Check source record text – coded items should match source record text and all applicable coding rules should be applied per the appropriate coding manual.

2.   Check with reporting facilities – discrepancies that can not be resolved within the record may be followed back to the reporting facility for further investigation.

3.   Check with third-party sources – discrepancies that can not be resolved within the record may be checked with other sources including data aggregators (i.e., Lexis Nexis), vital records data, linkage with other state agency data (i.e., hospital discharge data, drivers license records, voter registration), or claims data.

👪 Data Quality Beyond Edits

NAACCR

Groups	Description	Check
Dx Date	Review diagnosis date at the turn of the year (ex. Dec/Jan with unknown day).	
Age	Review patients with current age >100 with vital status alive. More than likely patient is deceased, check death files or obituary search.	
Sex	Run NAACCR SEX Edits.	
	Review/verify transgender cases. Check text to confirm sex code.	
	Review male breast cases. Review text to confirm sex.	
Race	Review multi race patients against race priority rules. Use Appendix D of SEER Reporting Manual.	
	Unknown race/ethnicity - review text, follow-up to reporting source.	
SSN	Review invalid SSN: Per SSA, no SSN has the first three digits "000," "666," or "900-999" or with the second group of two digits "00" or with the third group of four digits "0000".*	
Address	Look for blocks of addresses that might not be accurate (i.e- prisions).	
Tips	Linkages to improve all demographics:	
	— Death files	
	— Birth files	
	— Motor vehicle files	
	— Claims data	

* 1. RM 10201.035 Invalid Social Security Numbers (SSNs). Social Security Administration.
https://secure.ssa.gov/apps10/poms.nsf/lnx/0110201035.

Data Quality Beyond Edits

Site Histology

Groups	Description	Check
Head and neck	Review site C00 with histology 8090-8110. It should be skin - make it not reportable.	
Hemato.	Review ALL - Acute Lymphoblastic Leukemia (histology 9811-98xx) cases with age >25.	
C50	Review site C50 (2018+) with histology 8010 (to see if should be recoded to 8500 per Solid Tumor Rules - STR).	
	Review site C50 with histology 8543/2 (confirm if in situ).	
C53-C57	Review site C559 for more specific code.	
C70-C72	Review site C70-71 with Surgery Code = 40-55 to verify correct code assigned. Codes 40 and 55 are partial or total resections of lobe of brain. Not done very often.	
C80	Review unknown primary sites (C809) - if your % of C809 is higher than expected.	
STR	Special studies when STR change; use changes from 2007 Multiple Primary and Histology rules (MPH) section to ID cases to review.	

Groups	Description	Check
Stage	Review cases with unknown stage (TNM, EOD or Summary Stage).	
Grade/ behavior	Review rare in situ sites (C25.0, C25.1, C56.9, C57.0, C62.9, C34) with behavior /2.	

Data Quality Beyond Edits

Deduplication and Multiple Primaries

Description	Check
Review bilateral primaries to make sure not 2 primaries.	
Resolution of duplicate patients and tumors.	
Review patients with sequence number >08.	
Run NAACCR de-duplication protocol using Match*Pro.	

Description	Check
Review diagnostic confirmation coded to 4-9 to make sure a more specific or microscopic code could not be used.	
Review laterality coded to 9 to see if a specific laterality can be assigned.	
Review cases if difference between date of diagnosis and date of treatment is long to verify correct date entered - based on NCCN (National Comprehensive Cancer Network) guidelines	
Review text for accuracy of coding for site C44 - Breslow depth - compare to T value	
Review text for accuracy of lab value coding for site C619 - PSA lab value (and value closest & prior to bx date)	

Do NOT do any of the following:

Do **NOT** code vital status based on current age and/or prognosis.

Do **NOT** code race based on address.

Do **NOT** change a data item just to pass edits.

Do **NOT** change data items without clear evidence (don't make assumptions).

Do **NOT** assume that the most recently received record is the most complete/most correct one.

Do **NOT** use override option just to pass the edit.

✓ Data Qualty Beyond Edits

Always do the following:

Review your standard setting organizations and/or funding agencies data quality report for the most recent diagnosis year.

Run frequencies by unknown primary site, race/ethinicity, histology, sequence number, sex, diagnosis date.

Review your overrides.

Work with your software vendor to flag reviewed cases.