Research Billing I: The Most Basic Basics

Clinical Research Resources Office 14 February 2024



Poll 1: What description best fits your role?

- 1. Clinical research coordinator
- 2. Clinical research financial analyst/manager
- 3. Regulatory specialist, study team or department
- 4. IRB administrator
- 5. Department administrator
- 6. Investigator
- 7. Other



Poll 2: Does your role include attention to research billing?

- 1. Yes, directly
- 2. Yes, indirectly
- 3. No
- 4. I am not sure



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Primary objectives*

- 1. Understand basic research billing compliance (RBC) requirements
- 2. Identify the range of studies subject to them
- 3. Consider the role of RBC in protecting participants and providers

*Discussion of the BMC/BUMC RBC process is Part II, 13 March



Contextualizing research billing compliance

- Scope of relevance: any study that includes ≥1 clinical provisions
- In the last 16 years: graduated from hot topic to perennial top risk*
 - o In response to federal rulings in 1995, 2000
 - Initial codification: ~30 years after human subjects protections'
 - Centers for Medicare and Medicaid Services (CMS) has primary oversight**
 - Some CR clinical items are "routine," billable to federally insured patients ***
 - Non-compliance is subject to significant penalties
 - o (How) does research billing risk relate to research ethics?

*https://assets.hcca-info.org/Portals/0/PDFs/Resources/ResourceOverview/650_0_TopRiskAreasResearchComp.pdf

CMS rules span across many federal payers; often "Medicare" is employed as a synonym * "Standard of care" is frequently used as a synonym for "routine"



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Scope of relevance: clinical research



For RBC purposes, clinical research = ≥ 1 clinical item

- Whenever protocol includes ≥1 clinical "procedures, services, or other items"*
- Interventional or observation studies
 - Intended or not to affect health outcomes
 - Sponsored internally or externally
- · Range of study's clinical services: buccal swab to organ transplant
 - o IRB requirement tends to conform with RBC need but is neither necessary nor sufficient
 - o FDA-regulated and federally sponsored CR are subject to extra requirements
- Context paradigm: services provided in BMC clinic and documented, coded, and billed in electronic medical record (EMR)
 - Exceptions do not exempt provider from RBC
 - Services are billed separately as practitioner (professional) or institutional (technical) to same CMS administrator
 - Match is expected

*CMS terminology to cover all billables; includes surgeries, office visits, labs, images, drugs, devices, sutures: everything is coded



Some studies are excluded from coverage; most require special RB claims modifications

Routine care includes items provided, in an active or control arm, that are:

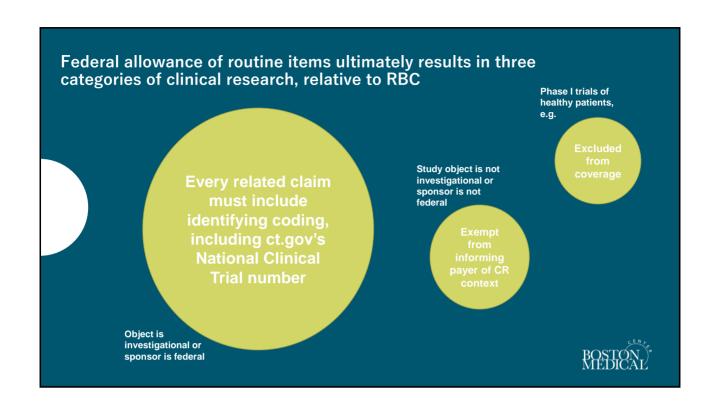
- Conventional care (= the care that the patient would receive anyway)
- o Needed "solely" to provide the investigational item
 - o E.g., chemotherapy administration charges
- o Used for "clinically appropriate" patient monitoring
- o Needed to diagnose, prevent, or treat complications

Routine care excludes item(s) provided:

- o For data-collection purposes only (beyond clinical management of the patient)
- o As the object of the investigation, unless it is "conventional care

*Content paraphrased from National Coverage Determination 310.1, issued in 2000, modified in 2007







Misbilling and its discontents

Research billing non-compliance = misbilling

- · Most egregious: charge participant when sponsor is the required payer
- Times two: charging participant and sponsor = double billing (and double credit to professional provider)

Challenges

- · Billing is frequent
- Electronic medical record: not designed to manage RB's twin oddities
 - o Alternative payer: sponsor
 - Alternative reason for service: data collection
- Medical coding = identification of exact services provided = intricate with pitfalls
 - o Special research claims modifications for most; absence of them for others
 - Clinical documentation must support submitted claims



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Misbilling federal payers violates the False Claims Act*

- · Individuals (eg, clinicians) and institutions are liable
- · Civil and criminal penalties
 - o Criminal: requires "knowingly" committing fraud but systemic negligence counts
- Every instance of discovered federal overpayment faces
 - Penalties, adjusted annually, 2/12/2024: \$13,946-\$27,894**
 - o Damages, trebled: overpayment amount x 3
- · Quickly adds up
 - o Moffitt Cancer Center agrees to pay \$19.5m, 4 January 2024***
 - Items "provided during research studies that were not eligible for reimbursement"
- · Note: the FCA is invoked in effort violations with similar high settlements

^{***}https://www.justice.gov/opa/pr/florida-research-hospital-agrees-pay-more-195-million-resolve-liability-relating-self



^{*} Also possible: exclusion from participation in federal insurer payments

^{**} https://www.federalregister.gov/documents/2024/02/12/2024-02829/civil-monetary-penalties-inflation-adjustments-for-2024

Following standard medical billing, RBC = no free services!

Without positive financial needs assessment, no service may be provided without charge*

- CMS demands that beneficiaries receive the lowest price
- If a provider does not charge a patient, or documents a lower service but provides a higher service, a new Medicare beneficiary price is established
- Applies to:
 - · Every patient, including study participants
 - Every service, direct or ancillary, professional or technical
- · Research presents a susceptible context:
 - Failure to bill the participant or the sponsor = free service

*Or at a rate lower than the applicable federal rate



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Beyond billing patient/insurance

Services provided outside of standard BMC clinic (external to Epic, may or may not employ medical coding)

1. Research cores/recharge centers

- o Cannot misbill participants: no routine services apply
- Nevertheless, strong documentation required to prevent audit alerts, establish compliance with federal cost principles

2. Effort instead of medical coding: rife with violation potential

- o Professional (pro) and technical services are tandem charges
- $_{\circ}\;$ Effort = pro service only; technical applies even when use of effort is compliant
 - Somewhat distinct electronic pathways but audit-susceptible
 - Absence of pro charges raises flags
 - NIH: accepts pro services as effort; requires routine tech services to be billed as routine



Do the responsibilities of RBC fall within research ethics?

- Most violations appear to go undetectedHealthcare institutions vary in formal diligenceResearch-related regulations are disparate



Summary



Research billing basics: recap

- Relevant whenever a study includes ≥1 prospective clinical services
- Narrow context: in play whenever a patient-care charge is generated in the context of research
 - o Protocol-specified or for treatment of a study-related adverse event
 - o At BMC, the required clinical documentation and charging occur through Epic
 - May be billable to the patient/insurance or to the sponsor
 - o If the study is a clinical trial, most likely requires special claims modification
 - o Failure to add complete set of modification results in claims rejection (= loss of revenue)
- Larger context, less understood: whenever a study-related clinical item occurs
 - · Recharge center/core billing by federal requirements
 - · Charged to sponsor as time and effort
 - · Should have been billed or charged as time and effort but wasn't
- · Penalties for non-compliance are significant
- Ethical research stewardship includes commitment to RBC(?)



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Appendix: background for Part II



Allowance of research-related routine services fundamentally altered CR compliance

- 1. Analysis at the item level: routine or research-only
 - Inexact, time-consuming: robust documentation needed
 - · Frequency and extent of service matter
 - · Clinicians vary in clinical practice history
- 2. Analysis of study characteristics
 - · Relatively simple determination:
 - · Follow-through is complex
- 3. Identification of study participants/visits, including documentation of:
 - exact items provided (and not provided)
 - · treatment of study-related adverse events
- 4. Charge "segregation" for billing review and, for most CR, claims modification
- 5. Back-end confirmation of correct payer for each clinical item
- 6. Over time, standard process features evolved and were shared



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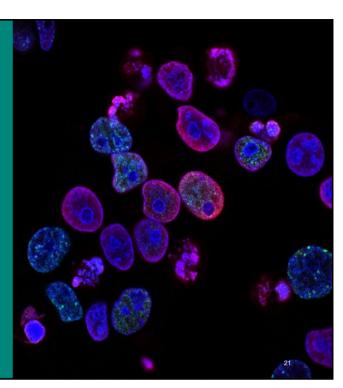
Upcoming presentation March 13th on the BMC RBC Process including:

- Coverage Analysis
 - Analysis at the item level
 - o Analysis of study characteristics
- Identification and documentation of study participants/visits
- Charge "segregation" for billing review
- RBC Systems
 - o Clinical Trial Management System
 - $_{\circ}$ Electronic Health Record System
- Charge "segregation" for billing review
- · Back-end confirmation of correct payer for each clinical item



References

- 1995: U.S. allows Medicare billing related to investigational devices: 42 CFR 405.201-213 Medicare Services Coverage Decisions That Related to Health Care Technology (amended 2004, 2013, 2021)
- 2000: Medicare extends billing to "clinical trials", National Coverage Determination 310.1 (amended 2007)
- Medicare Claims Processing Manual, Chapter 32, especially §§68-69 (investigational devices; qualifying clinical trials)





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