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□ Causal Language

Causal language refers to wording that suggests a cause-and-effect relationship between two variables.

□ Definition

Causal language is used when an author implies that one factor **directly causes** another — rather than merely being associated or correlated — even if the study design **does not support** such inference.

Examples:

- [] "Treatment **leads to** improved survival"
- [] "Dose escalation **prevents** local failure"

Correct alternatives:

- ☐ "Treatment was associated with improved survival"
- [] "Higher dose **correlated with** lower failure rates"

△ Why It's Problematic

Using causal language in:

- Retrospective studies
- Observational studies without causal inference methods

... can:

- Overstate conclusions
- Mislead clinicians or policymakers
- Hide potential confounding factors or biases

□ Only Appropriate In:

- Randomized Controlled Trials (RCTs)
- Studies using robust causal inference tools:
 - Propensity score matching
 - Instrumental variable analysis
 - Directed acyclic graphs (DAGs)

If a study does not randomize exposure and lacks causal modeling, causal language should be avoided.

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