

Real-world validation

Real-world validation refers to the process of evaluating a [model](#), [intervention](#), [device](#), or [strategy](#) under actual usage conditions, outside of controlled or [experimental settings](#).

Common contexts

- **Medicine:** Validation of clinical scores (e.g., [HERMES-24 Score](#)) using real-world data from hospital records or patient registries.
- **Artificial Intelligence:** Testing models on noisy, unstructured, or biased data typically encountered in operational environments.
- **Pharmaceuticals:** Post-marketing studies to confirm drug efficacy and safety in broader, more diverse populations.
- **Engineering:** Field testing of devices, software, or systems under variable and realistic conditions.

Comparison with controlled validation

Feature	Controlled Validation	Real-world Validation
Environment	Laboratory or clinical trial	Routine clinical practice or real conditions
Data	Clean, selected	Noisy, heterogeneous, and complex
Objective	Internal validity	External validity (generalizability)

From:

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Last update:

2025/07/04 15:48

