

**Clinical validation** refers to the process of confirming that a concept, test, method, or theory is accurate, reliable, and applicable in real-world clinical settings. It typically involves:

1. **Testing in humans** — not just animals or theoretical models. 2. **Correlating findings with clinical outcomes**, such as patient recovery, symptoms, or prognosis. 3. **Reproducibility** — results must be consistent across different patient populations, institutions, and methodologies. 4. **Prospective data** — ideally involving forward-looking studies (e.g., cohort studies, randomized trials) rather than retrospective analyses.

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