

**Technological Overreach (in medical research)** Technological overreach refers to the misuse or overapplication of advanced technologies—such as high-resolution imaging, robotics, AI, or genomics—in situations where:

The clinical relevance is negligible

The evidence base is weak

The goal is novelty or aesthetics, rather than solving a real medical problem

⚠ **Common Characteristics:** Flashy but functionless Cutting-edge tools are applied to trivial findings with no impact on diagnosis, treatment, or patient outcomes.

**Disproportionate resources** Expensive technology is deployed to solve non-problems or to generate pseudo-findings.

**Speculative conclusions** Authors claim future utility or significance without empirical support or validation in clinical settings.

**Redundant innovation** Technology is used to “rediscover” already-known anatomy or processes, adding nothing but visual gloss.

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