PHARMACOVIGILANCE How adverse events are detected, assessed, and understood throughout a product's life cycle¹

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Overview of safety in clinical trials ... *

Trial participants are selected according to pre-specified eligibility criteria^{2,3}

In randomized controlled trials (RCTs), incidence of adverse events (AEs) with a product is **compared** with a control (eg, placebo)⁴⁻⁶

In clinical trials, all AEs are reported for the study duration (including controlled and open-label phases) regardless of causality^{2,3,5,6-8}

*Refers specifically to manufacturer/company-sponsored clinical trials.5,7



... the real-world setting

A larger and more heterogenous patient population use the approved/marketed product in the real-world setting (eg, patients with more complex comorbidities)^{9,10}

Establishing whether a causal relationship exists between real-world AEs and the drug is challenging because:

- There may be unidentified or unaccounted for confounding factors¹⁰
- The incidence of real-world AEs includes background
- rates of the affected population¹⁰

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In the post-marketing setting, the manufacturer must communicate all AEs that are reported to them to regulatory agencies regardless of causality¹¹

AEs are communicated to regulatory agencies according to specified timelines^{11,12}

> See reverse for information on safety signal detection, evaluation, and management

How are safety signals detected, evaluated, and managed?



Regulatory authorities have the final decision on the content and language included in the product label and what subsequent action may be required if signals are identified post-approval^{8,9,17,19,20}

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