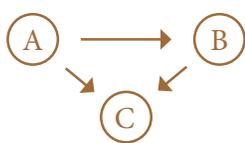


The role of real-world evidence in the COVID-19 era

Real-world evidence (RWE) can be used across development cycle to highlight unmet need, define priority patient segments, competitively position a product before launch, understand real-world treatment patterns and outcomes, and to build an evidence base when clinical trial programs are delayed.

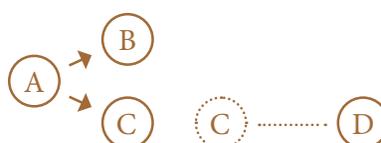
Discovery	Exploratory development			Full development			Life-cycle development
Pre-Clin	Ph I	Ph IIa	Ph IIb	Ph III/IIIb	File	Launch	Ph IV
<p>How can RWE inform and strengthen the clinical evidence and help build a new product's value narrative?</p>	<ul style="list-style-type: none"> Establish unmet need that the new therapy will address Describe current treatment landscape and strengths and weaknesses of available therapies Design Phase 3 clinical studies to capture desired patient population and clinical endpoints 			<ul style="list-style-type: none"> Provide clinical experience for clinicians not involved in Phase 3 clinical study programs Create advocacy within medical community and better understand clinical challenges Extend evidence of effectiveness and safety to real-world setting 			<ul style="list-style-type: none"> Strengthen and extend value proposition of the new therapy with further evidence generation Respond to value positioning of competitors and strengthen evidence base for access and pricing negotiations Confirm safety of the new therapy (i.e. pharmacovigilance)
<p>What types of RWE can be generated?</p>	<ul style="list-style-type: none"> Burden of illness (epidemiology and healthcare resource utilization (HCRU) and costs) Profile of patient population, including biomarkers Current treatment patterns and treatment needs Effectiveness, safety, HCRU and costs, and impact on patient-reported outcomes of current therapies 			<ul style="list-style-type: none"> Effectiveness/safety of new therapy in real-world setting Broader understanding impact of new product on HCRU and costs of disease management to feed into economic models Understanding of compliance, need for dose reductions and/or treatment switching or discontinuation 			<ul style="list-style-type: none"> Descriptive and comparative effectiveness in real-world setting Descriptive and comparative safety, including long-term safety data on new therapy HCRU and costs of new therapy to strengthen value narrative

Real-world solutions can strengthen clinical evidence.



Indirect treatment comparisons

Compare outcomes of healthcare interventions from separate studies in absence of head-to-head Phase III studies



Single-arm studies

Remove control arm so all study participants receive the novel healthcare intervention and compare with historical controls

Case study: historical control and single-arm study.

Challenge

Slow recruitment into head-to-head Phase III study caused a delay in study readout, so there was the need for comparative data with standard of care in addition to existing Phase 3 clinical efficacy data for the new therapy

Approach

Conducted retrospective analysis of Flatiron electronic health record database to establish historical control to compare with existing Phase 3 clinical data on the new therapy

Impact

Single-arm study findings were shared as part of discussions with the FDA and supported regulatory approval under an agreement to deliver head-to-head Phase III data at a later stage

Using real-world evidence (RWE) intelligently to help adapt to the 'new normal'.

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SHIFT