

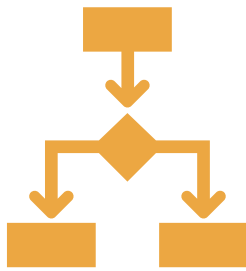


Quantifying What Matters to Patients

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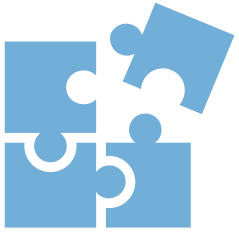


Why Generate Primary Evidence?



- ❑ Inform device design by prioritising attributes and features that address unmet needs
- ❑ Quantify the added value of features within real-world context
- ❑ Identify high-need patient segments to maximise utility
- ❑ Support messaging and value proposition development for launch readiness
- ❑ **Avoid late-stage pitfalls (e.g. over-investment in low-impact or “gimmicky” features that do not improve adherence or quality of life)**





Evidence Approaches in Practice

1. Market Research

- Commercial
- Decision-focused
- Flexible design and timelines

2. Real-world evidence

- Non-interventional studies (prospective or retrospective)
- Increasingly used in HTA and submissions
- Protocol-driven; ethics and governance required

3. Secondary data

- Existing data sources (e.g. real-world data, databases, claims)
- Often syndicated
- Large-scale and longitudinal
- Limited control over variables and level of detail

Selection will be driven by key decisions affected

- Approaches are often combined
- Factoring in: Stage of development, evidence requirements (e.g. regulatory, HTA, commercial), timelines and resources



From Questions to Evidence



- ❑ Define key decisions rather than broad exploratory question
 - ❑ Structure attributes into clearly differentiated and manageable sets
 - ❑ Design around meaningful end-benefits (e.g. simplicity, usability, dose-confirmation)
 - ❑ Apply appropriate methods, e.g. to capture trade-offs while remaining intuitive for respondents (e.g. Best-Worst scaling: conjoint techniques, Max Diff exercises) include randomization, filtering & routing, qualitative / explorative ethnographies / piloting
- ✓ Estimate market opportunity and distinguish must-haves vs optional features
 - ✓ Avoid reliance on untested assumption: Build evidence early & reduce launch risks



Case study_1



Patient preferences for injection devices



Situation

- ❑ Pharma company considering future device & digital innovation strategy
- ❑ Define which injection device features truly add value to patients
- ❑ Challenge: wide range of possible “smart” innovations vs unclear priorities



Approach

- ❑ Quantitative multi-country, online surveys with patients & caregivers who self-inject at home, indication-agnostic
- ❑ Over 600 (4 distinct groups)
- ❑ Best-Worst Scaling (max diff) exercise across device & digital features
 - Core device attributes, e.g. easy handling, dose-confirmation, temperature-excursion tracking
 - Connected / “smart” features, e.g. individualized reminders, connectivity



Outcome

- ❑ Publication
- ❑ Quantified hierarchy of feature importance
- ❑ Core functional attributes to prioritize
- ❑ Guidance on indication, patient population unmet needs & pain points
- ❑ Define role of “smart” features - supportive, not primary drivers of use
- ❑ Fed into practical guide to steer device development & innovation prioritisation



Case study_2



Chronic Spontaneous Urticaria patient preferences regarding biologics



Situation

- ❑ New injectable therapy in development for CSU
- ❑ Competes with antihistamines, DMARDs, biologics
- ❑ Need to understand relative importance of treatment attributes



Approach

- ❑ Sequential mixed-method study:
- ❑ CSU patients only
 - ❑ Qualitative interviews for attribute identification & disease burden insights
 - ❑ Quantitative choice-based experiment (CBE) Multi-country surveys
- ❑ n=10 interviews / country, n=150 online surveys / country



Outcome

- ❑ Quantified importance of treatment attributes
- ❑ Identified patient-relevant trade-offs
- ❑ Cross-country comparison of preferences
- ❑ Scenario testing vs existing therapies
- ❑ Outputs informed:
 - Clinical development priorities
 - Patient-relevant endpoints
 - Value communication



Case study_3



Ambulatory infusion-pump design & market definition



Situation

- ❑ Manufacturer preparing next-generation infusion pump and considering new innovative features (slim, multi-use, smart features)
- ❑ Broad, indication-agnostic opportunity (post-acute care stay, ambulatory infusion)
- ❑ Optimize device design and define target use-case



Approach

- ❑ Large-scale quantitative study
- ❑ 8 x countries 1360 online surveys
 - ❑ 855 Physicians, Nurses, & Hospital Pharmacists
 - ❑ 500 Patients & caregivers
- ❑ Extended survey length (30 to 40 minutes)
- ❑ Conjoint Exercise + MaxDiff:
 - ❑ Core device attributes
 - ❑ General features & end-benefits
- ❑ Focused on trade-offs and preference hierarchy



Outcome

- ❑ Design optimisation of a new mechanical infusion pump
- ❑ Compact, lightweight, robust, Long battery life (full infusion cycle), High usability (simple setup, minimal programming)
- ❑ Key drivers of preference: Mobility & independence, Safety (e.g. air bubble, anti-kink), Ease of use
- ❑ Clarified role of connectivity: work-flow & documentation not patient-facing autonomy, quantified willingness to pay for advanced 'smart' features
- ❑ Target use-case: extended ambulatory IV therapies involving variable, multi-phase infusion regimens with programmable flow and EPR integration

