

Product Ideation for pre-filled syringe market

CASE STUDY



Purpose

To identify the product ideas for portfolio expansion in critical care for the US pre-filled syringe market.

Client

Industry Small pharma

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Sector Critical care

Client specification

- Products with patent expiry on or before 2025.
- Regulatory markets of interest-FDA.

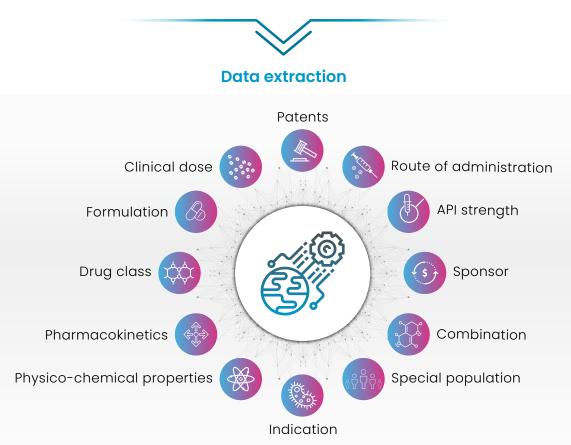
Our approach

Machine learning models were built using three different methods to prioritize biomarkers associated with drug-response. Pathway enrichment analysis was performed to understand the role of the biomarkers in disease pathophysiology. Stratification of patients based on these biomarkers resulted in correct prediction of drug response in 8 out of 11 patients.

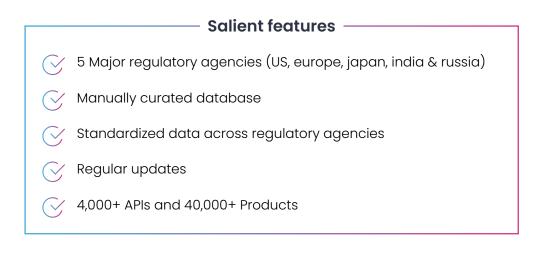
Location

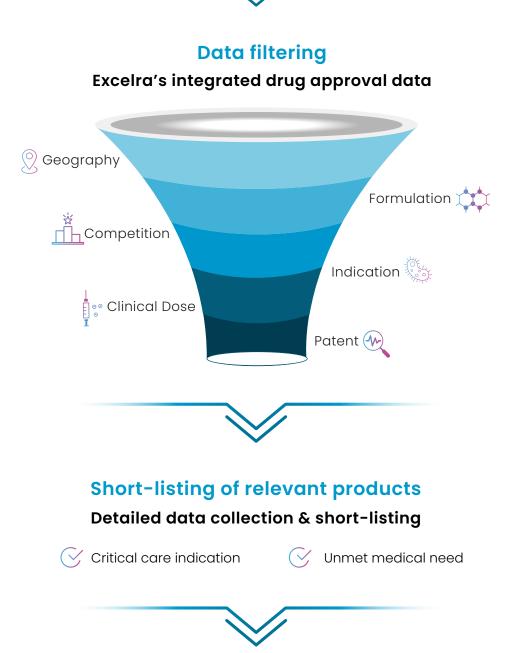
Europe





Excelra's drug life cycle management platform Simplified solutions from complex data





Analysis, ranking, and prioritization

Analysis, ranking and prioritization (contd.)

Drug name	API 1	API 2	API 3	API 4	API 5	API 6	API 7	API 8	API 9	API 10
Indication	Disease 1	Disease 2	Disease 3	Disease 4	Disease 5	Disease 6	Disease 7	Disease 8	Disease 9	Disease 10
Patent	HIGH									
Geography	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	HIGH	HIGH	HIGH	LOW
Formulation	HIGH	LOW								
Drug PFS availability and competition	HIGH	LOW	HIGH	LOW						
Indication in critical care	HIGH	HIGH	HIGH	LOW	LOW	LOW	LOW	LOW	HIGH	LOW
Dose and dose regimen	HIGH	LOW								
Dose precision necessary	HIGH	LOW	HIGH	LOW						



TOP product ideas in critical care

Our contribution

- Strategy for entry into niche therapeutic areas in new markets for generics.
- Recommendation of low risk-high value product ideas for accelerated entry into niche markets.
- 📿 Identifying differentiating parameters to tackle generic competition.
- Portfolio expansion by identifying commercially attractive product opportunities.
- Top 5 product ideas in critical care.

Our service portfolio

<₀> Data	Data curationFilter out the noise, focus your attentionClinical dataAnalysis-ready data for informed clinical decision-makingSemantic dataRefine your decisions, find your value
Insights	Bioinformatics Illuminating the path to faster discoveries Data science Unlock the power of data Visualization Pictures paint a thousand words
R&D technology	 Product design and development Unlock your potential with data-driven design and development Cloud enablement Optimize your output on the cloud Data engineering Mitigate risks, protect your data, and rationalize your portfolio and processes.

Where data means more

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