



Real World Evidence as an investment

Capturing value at scale

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Почему мы проводим этот вебинар



- 1 Внимание к RWE растет
- 2 Мало информации на тему инвестиций в RWE

- Подход к RWE как к инвестиции может принести пользу системе здравоохранения, в центре которой пациент
- 4 Необходимо участие всех участников системы здравоохранения

В настоящий момент нет единого трактования термина «инвестиция»



Терминология

- Инвестиция (От лат. investire облачать) денежные средства, …, иное имущество, … вкладываемые в объекты предпринимательской … деятельности в целях получения прибыли и (или) достижения иного полезного эффекта¹
- Инвестиции это любые ... средства, призванные служить удовлетворению будущих потребностей, для чего они отвлекаются от текущего использования и вкладываются в ... направление, приносящее выгоду²
- **Возврат на инвестиции (ROI)** рентабельность, показатель окупаемости вложений. Е.д. ROI 30% = вложено \$100, вернулось \$130, прибыль \$30







Признаки инвестиций



Ожидание дохода



Определенный срок вложения



Уровень риска

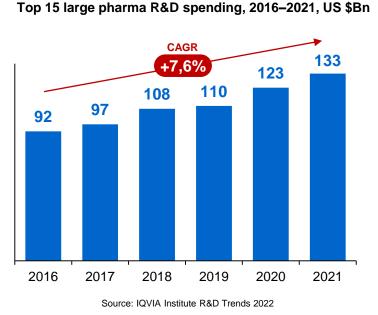


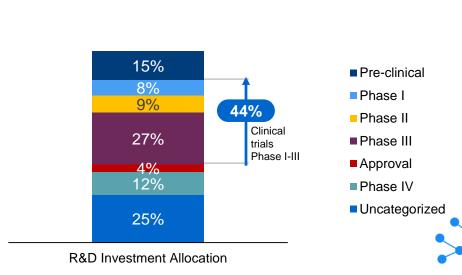
Roche

Разработка препаратов (R&D) является примером длительно существующего инвестиционного механизма в фарм индустрии

- In 2021, the top 15 largest pharma companies invested \$133 billion in R&D expenditure (7.6% CAGR from 2016)
- ✓ Of the total global R&D investment, 44% is allocated for Phase I–III clinical trials, 27% dedicated to Phase III.
- Ost was not identified as a top criteria for country selection. The pressure for fast-speed and quality trials drives the final decisions







R&D by Function in PhRMA member companies, 2020, %

Source: Pharmaceutical Research and Manufacturers of America, PhRMA Annual Membership Survey, 2021.

Почему скорость так важна









Every additional week spent getting to market accounts for a loss of US\$300,000 in sales¹

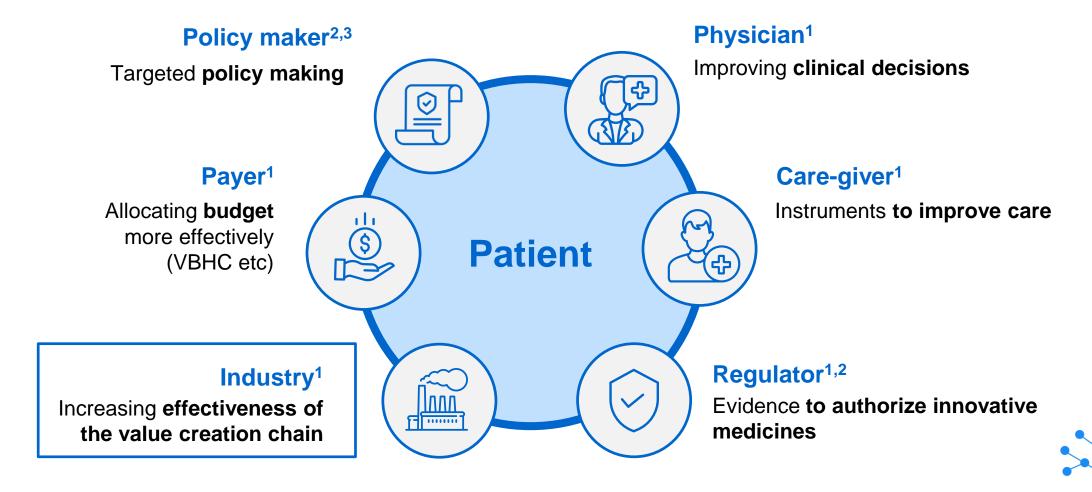
There's a shift in focus for the early use of RWE in the product life cycle²



Real World Evidence тоже является инвестицией и «питает» ценностно-ориентированный подход в здравоохранении



Социальная значимость Real World Evidence



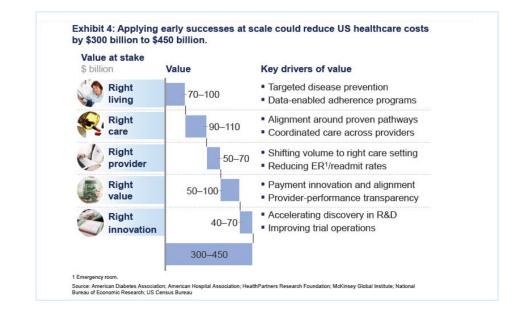
Ценностно – ориентированный подход позволяет снизить затраты в системе здравоохранения США на 12-17%

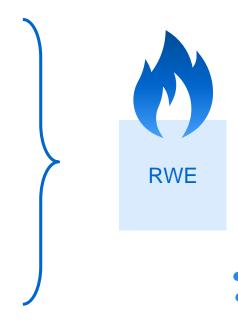


- (%) The
 - The new value pathways are: right living, care, provider, value, innovation
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- Value is derived from the balance of healthcare spend (cost) and patient impact (outcomes)

The pathways could account for \$300bn to \$450 bn reduced healthcare spend in US healthcare costs



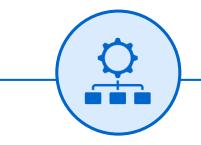






Примеры инвестиций в RWE





Инфраструктура и доступ к данным <u>BD4BO</u> <u>EHDEN</u>



Технологии¹



Проведение RWE исследования



Люди (capabilities, employees, operating model, etc)²



Фарминдустрия использует RWE по всему жизненному циклу продукта для создания ценности



RWD prize of \$4 billion to seize over 3 years globally1

Cost Revenue

	Function	Examples of use cases	Level	Impact examples	
	R&D	Unmet need and targets for product developmentClinical trial design and execution	GLOBAL	Cost reduction, faster launch	\$500 m \$1250 m
ĘĠ	REGULATORY	 Filing new molecules, label extensions Post-marketing surveillance, eliminate need for a trial / study 	GLOBAL AND LOCAL	Cost reduction, faster launch	\$300 m \$300 m
[}<	CLINICAL PRACTICE	Scientific excellence:	LOCAL	Earlier uptake, bigger patient pool	\$300 m
急	MARKET ACCESS	Improve evidence of economic valueComparative effectivenessValue-based contracts	LOCAL	Earlier access, uplift in sales	\$750 m
	COMMERCIAL	Internal strategic and operational decisions, commercial precision	LOCAL	Cost reduction, uplift in sales	\$100 m \$500 m

Advanced analytics, AIML (Artificial Intelligence & Machine Learning) or predictive modeling can be leveraged across all types of usage



Advanced RWE аналитика позволяет увеличивать возврат на инвестиции как на до-, так и пострегистрационном этапе





Advanced RWE analytics uses predictive models to extract deeper insights



It gives additional opportunities to derive value which traditional analytics can't offer



A top-20 pharmaco could unlock >\$300 mln a year over next 3-5 years by adopting advanced RWE analytics across its value chain:





R&D cost saving of \$100 million via:

- Optimization of RCT design
- Use of RWE studies rather than RCTs
- Implementation of synthetic trial arms



Revenue generation of \$200 million via:

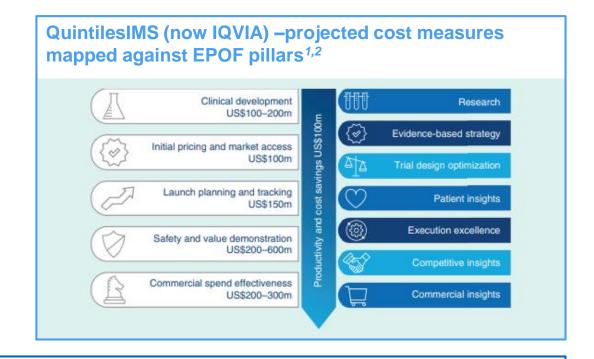
- Identification of new targets for molecules
- Time to market acceleration
- Improved formulary position and payer negotiations
- Stronger evidence of differentiation



Evidence-powered operating framework may be associated with significant efficiency savings for pharma



- Integrated evidence generation strategy is a must
- Framework (EPOF) enables strategy implementation
- Framework use case example: early feasibility analysis





A company that captures \$1 billion in RWE value for itself ultimately creates improvements in the healthcare system valued in the tens of billions of dollars





RWE return calculation: mission critical



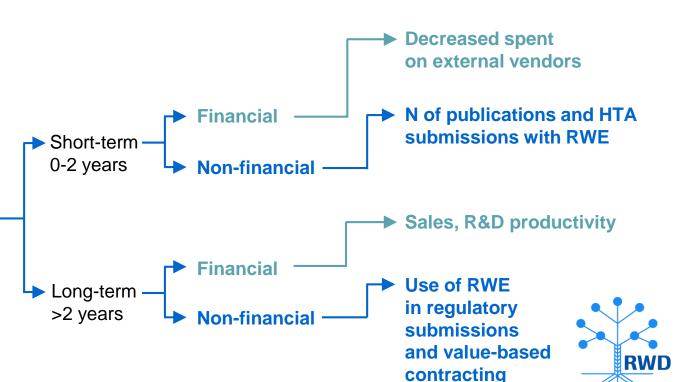
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Companies are making RWE investments across the product life cycle in the hope of achieving cost savings and efficiencies

Metrics for RWE ROI calculation

Investments are made in people, data and technology (including machine learning)

There's a bunch of experimenting with financial and non-financial metrics for short- and long-term return





Take-away messages



Real World Evidence is an investment tool with a societal and financial value



As any investment, RWE can be characterized by a certain ROI



ROI is an important consideration for investing in any RWE dimension



There are difficulties assessing ROI in RWE studies that should be taken into account in planning and conduct



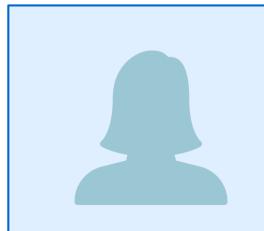
Acknowledgements





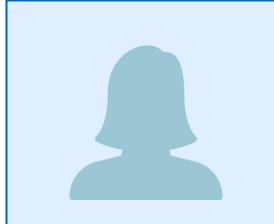
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Doing now what patients need next