



How the use of Clinical Specialists can positively impact high-level regulatory studies

ACTIONABLE ADVICE ON HOW TO ENHANCE YOUR CLINICAL STUDY

Benjamin Rieck, CEO of AngioConsult GmbH

London, May 29th, 2024



01

Table of Contents

Importance of Regulatory Studies in Medical Device Approval	02
Clinical Data in Medical Device Studies	03
Challenges faced	05
Role of Clinical Specialists	06
Case Study: Protembis	09
Case Study: TVA	10
Case Study: CardioValve	11
Practical Takeaways	13
Contact Information	14

Importance of Regulatory Studies in Medical Device Approval

Facts first:

There are more than two million kinds of medical devices on the global market.

MDR Article 62: Clinical investigations shall be designed and conducted in such a way that the rights, safety, dignity and well-being of the subjects participating in a clinical investigation are protected and prevail over all other interests and the clinical data generated are scientifically **valid, reliable and robust.**

Clinical Data in Medical Device Studies

Clinical data is the base of a successful clinical study.

Why do we need clinical data for medical devices?

1. Safety of the device/technology
2. Clinical benefit (non-inferiority / superiority)

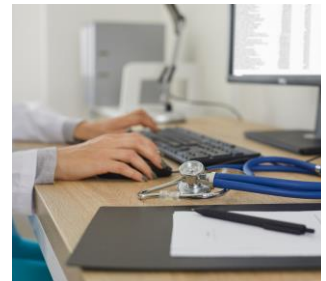
3. Clinical performance of devices/ technologies






4. Risk analysis and management

5. Finding the balance between innovation and safety

What is the importance of good clinical data?

1. Regulatory requirements / approval
2. Supporting in funding efforts
3. Supporting on commercialization progress
4. Clinical performance of devices/ technologies
5. Risk analysis and management



	PRE-MARKET			POST-MARKET	
Clinical Development Stage	Pre-Clinical	Pilot	Pivotal	Post-Market Surveillance (PMS)	
Type	Exploratory	Exploratory & Confirmatory	Confirmatory		Observational
Descriptors	 <ul style="list-style-type: none"> - In-Vitro - In-Vivo - Bench-test 	 <ul style="list-style-type: none"> - First-in-Human - Pilot Study - Safety Study - Exploratory Study - Early/Traditional Feasibility Study - Proof-of-Concept - Investigator Initiated* 	 <ul style="list-style-type: none"> - Pre-Market CI/Study - Pivotal CI/Study - PMA CI/Study - Phase III Study 	 <ul style="list-style-type: none"> - Post-market CI/Study - Investigator Initiated* - PMCF Study - Post-Authorization Study (PAS) - Validation Study 	 <ul style="list-style-type: none"> - Post-Market CI/Study - PMCF Study - Investigator Initiated* - Registry - Survey - Case Series - Cohort - Post-Authorization Study (PAS)
Burden to Human Subject	None	Interventional		Non-Interventional	

04

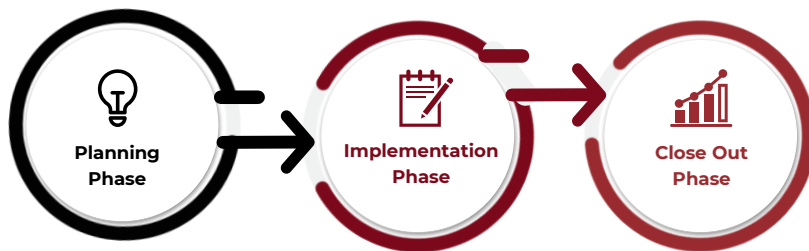
*Investigator-Initiated Studies can be interventional and non-interventional. Investigator-initiated Studies don't have to be sponsored by investigators.

© Jon I. Bergsteinnsson

Challenges faced

05

There are many challenges associated with starting clinical trials.



<ul style="list-style-type: none"> Lack of personnel Identifying suitable sites Time investments High costs/lack of budget Creating study documents Approval by authorities 	<ul style="list-style-type: none"> Insufficient device and procedure training Study protocols are too complex No suitable patient recruitment High costs Frequent protocol adjustments Low compliance in follow-up schedule Missing enrollment target Lack of on-site guidance during clinical cases 	<ul style="list-style-type: none"> Data analysis Aggregating and publishing results
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------



Whereas CEOs concentrate on regulations and CROs,

Clinical specialists put their focus **on the medical personnel** and their role in the study.

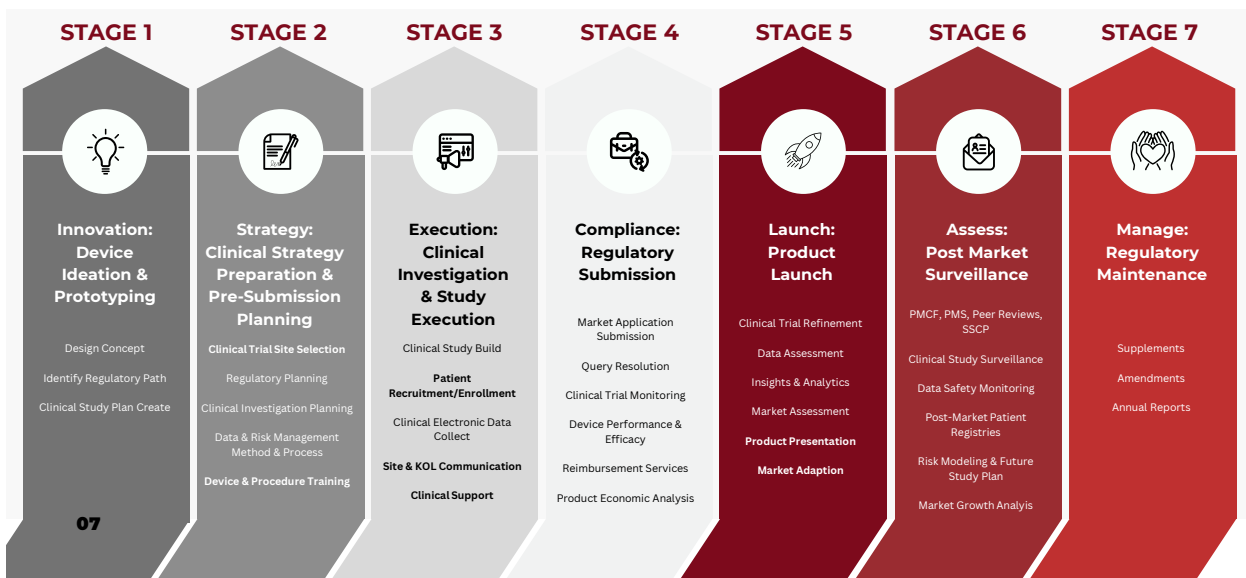
Did you know?

More than 70% of MedTech companies are outsourcing at least some of their clinical activities. **But why?**

06

So much to do. So little time.

Clinical studies are an equilibrium of multiple groups of people running multiple tasks simultaneously.



07

CLINICAL SPECIALISTS

- Clinical Support
- Experience and knowledge in regard to clinical environment, clinical procedures and tools
- Device Training
- Patient management
- Support in screening process
- KOL & site management
- Reporting to engineering
- Reporting to CRO data management

ENGINEERS

- Expertise device/technology
- Ability to make changes on the device
- Specialist for this specific device
- No experience in clinical environment
- No medical knowledge
- No didactic training in communication with medical staff

CRO

- Data management
- Regulatory submission
- Follow-up monitoring
- Clinical case support
- KOL engagement
- Direct communication with study sites
- Study site selection

08

Case Study: Protembis

09

Embolic protection during TAVI

Startup Management

- Creation of the business plan
- Preparation of the pitch deck

Fundraising Consulting

- Connecting with investors
- Communication with investors

European Market Analysis

- Creation of market report
- Market analysis
- Collection and analysis of facts and figures of the embolic protection and TAVI market

Project Development

- Coordination, planning, organization, execution and controlling of all project steps
- Dual strategy: strategic planning (consulting competence) and operational support
- Staffing
- Site selection and qualification
- SIV's

Clinical Case Support

- Worldwide case support and case proctoring with the ProtEmbo System in Cathlab and Hybrid OR on site
- Site communication
- Procedure and device training
- Establishment of online training program
- Case data management

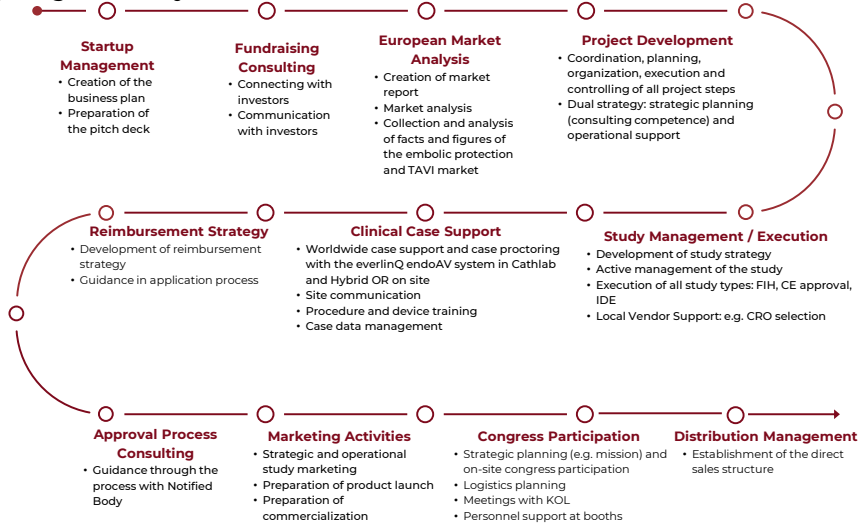
Study Management / Execution

- Development of study strategy
- Active management of the study
- Execution of all study types: FIH, CE approval, IDE
- Local vendor support: e.g. CRO selection

Case Study: TVA

10

Minimally invasive vascular access solution for patients with chronic kidney disease requiring hemodialysis



Case Study: CardioValve



CardioValve

11

Novel transcatheter valve replacement system

Status Quo

- No patient enrollment despite active sites
- Lack of CRO engagement
- Insufficient training of proctors

Change Management

- Engagement of additional sites
- Take-over of CRO management
- Creation of a new training & education set-up
- Enhancement of patient safety
- Adequate case support



Clinical Specialists are experts in **gathering data and overseeing its transfer** among all stakeholders, enhancing efficiency for both the study sites and the sponsor, **leading to the successful completion of the study.**

12

Practical Takeaways

Overcoming challenges with the support of Clinical Specialists.



13

14

Let's chat.



AngioConsult GmbH

Heydenreichstr. 5 | 62347 Speyer
Germany

 www.angioconsult.de

 info@angioconsult.de



Benjamin Rieck

E-Mail: bjriec@angioconsult.de

LinkedIn:

