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# Translational Pathways for Cardiovascular Devices -eBook-

## Part I: Basic Concepts In Device Development

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- I.1 **Introduction** ([Preview article for free Online](#))  
David R. Holmes, MD; Anthony DeMaria, MD; Nabil Dib, MD, MSc; Spencer King III, MD;  
David G. Reuter, MD, PhD
- I.2 **Overview of Cardiovascular Translational Research** ([Preview article and lectures by Nabil Dib, MD and Robert Califf, MD for free online](#))  
Nabil Dib, MD, MSc
- I.3 **A Needs-Based Approach to Health Technology Innovation: The Stanford Biodesign Process Concept Development for Unmet Clinical Needs** ([Lecture: Todd Brinton, MD](#))  
Todd J. Brinton, MD; Uday N. Kumar, MD; Jonathan G. Schwartz, MD; Paul G. Yock, MD
- I.4 **Intellectual Property and Strategy Development**  
Neil K. Nydegger, Esq
- I.5 **Regulatory Requirement for Marketing Approval** ([Preview lecture by Bram Zuckerman, MD for free online](#))  
Felipe Aguel; Deborah G. Castillo, PhD; Joseph Chin, MD; Bram D. Zuckerman, MD
- I.6 **Regulatory Assessment of Medical Devices in the European Union**  
Alan G. Fraser, MD; Robert A. Byrne, PhD; Tom Melvin, MD; Niall MacAleenan, MD;  
Olga Tkachenko, PhD; Paul Piscoi, MD
- I.7 **Requirements for Reimbursement for Innovation** ([Lecture: Joseph Chin, MD](#))  
Joseph Chin, MD; Seth Clancy
- I.8 **Requirement for New Technology to be Included in the Guidelines: “The Ultimate Goal”** ([Lecture: Alice Jacobs, MD](#))  
Alice Jacobs, MD

- I.9 [Advanced Biostatistics for Translational Research](#) (Lectures: Chris Mullin & Roseann White, PhD)  
Chris Mullin; Roseann White
- I.10 [Early Feasibility Studies](#) (Lectures: Andrew Farb, MD & David Reuter, MD)  
Andrew Farb, MD; David G. Reuter, MD, PhD

## Part II: Translational Pathway For Transcatheter Aortic Valves

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- II.1 [Introduction](#) (Preview article and lectures from Alain Cribier, MD and Martin Leon, MD for free online)  
Stanton Rowe
- II.2 [Unmet Clinical Needs](#) (Lecture: Martin Leon, MD)  
Martin B. Leon, MD
- II.3 [Preclinical Evaluation for TAVR](#)  
Sarah Ahlberg, Carol E. Eberhardt, Russell Hodge, Timothy Kelley, Jeffrey Kepner, Hatem Tadros
- II.4 [Clinical Evaluations – Methods](#) (Lectures: Nicole Ibrahim, PhD, & Stanton Rowe)  
Nicole Ibrahim, PhD
- II.5 [Clinical Evaluations – Endpoints](#) (Lecture: Ori Ben-Yehuda, MD)  
Ori Ben-Yehuda, MD
- II.6 [Reimbursement](#)  
Seth Clancy
- II.7 [Future of TAVR Devices](#) (Lecture: Stanton Rowe)  
Stanton Rowe

## Part III: Translational Pathway For Transcatheter Mitral And Tricuspid Valve Development

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Blasé Carabello, MD
- III.2 [Unmet Clinical Needs](#) (Lecture: Michael Mack, MD)  
Blasé Carabello, MD

- III.3 [Preclinical Evaluation of Percutaneous Mitral/Tricuspid Valve Repair/Replacement](#)  
Patrick Verta, MS, DVM, MD
- III.4 [Clinical Evaluations – Methods \(Lecture: Michael Mack, MD\)](#)  
John Laschinger, MD
- III.5 [Clinical Evaluations – Endpoints \(Lecture: Blasé Carabello, MD\)](#)  
Blasé Carabello, MD; Anthony DeMaria, MD; David Holmes, MD; Spencer King III, MD; John Laschinger, MD; Patrick Verta, MS, DVM, MD
- III.6 [Reimbursement](#)  
Christopher J. Panarites, PhD; Elizabeth Thoma, MBA
- III.7 [Future of Mitral and Tricuspid Devices \(Lectures: John Laschinger, MD & Patricia Todd\)](#)  
Paul Grayburn, MD

## Part IV: Translational Pathway For Coronary Stent Development

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- IV.1 [Introduction](#)  
Chuck Simonton, MD
- IV.2 [Unmet Clinical Needs \(Lecture: Gregg Stone, MD\)](#)  
Stephen Ellis, MD; Chuck Simonton MD
- IV.3 [Preclinical Evaluation of Coronary Stents](#)  
Laura E. Leigh Perkins, DVM, PhD, DACVP
- IV.4 [Clinical Evaluations – Methods \(Lectures: Chuck Simonton, MD & Michael John, MPH\)](#)  
Priya Jagasia, MD; Chuck Simonton, MD
- IV.5 [Clinical Evaluations – Endpoints \(Lecture: Donald Cutlip, MD\)](#)  
Donald E. Cutlip, MD
- IV.6 [Reimbursement](#)  
Chuck Simonton, MD
- IV.7 [Future of Coronary Stents \(Lecture: Chuck Simonton, MD\)](#)  
Mitchell W. Krucoff, MD

## Part V: Translational Pathway For Ventricular Assist Devices

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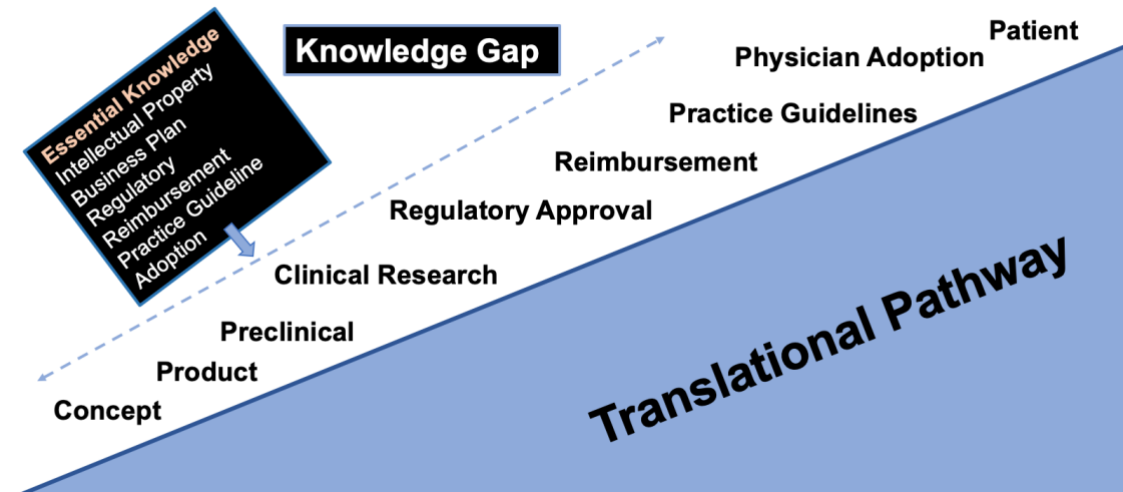
- V.1 **Introduction**  
Francis D. Pagani, MD
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Francis D. Pagani, MD
- V.3 **Preclinical Evaluation of VADs**  
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## Part VI: Translational Pathway for Catheter Ablation

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Gregory K. Feld, MD

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Multi-disciplinary

