

## Understanding Disease Progression Models: What are They, Why are They Useful, & How Are They Applied



The graphic features a dark blue background with a faint, repeating pattern of people silhouettes and white geometric shapes (squares, circles, lines). In the top left, the Critical Path Institute logo is shown next to the text "RARE AND ORPHAN DISEASE PROGRAMS" and "CRITICAL PATH INSTITUTE". To the right of this is the "RDCA-DAP" logo, which includes a circular icon and the text "RDCA-DAP® Rare Disease Cures Accelerator Data and Analytics Platform". The words "WEBINAR SERIES" are prominently displayed in large, white, bold, sans-serif capital letters. On the right side, there is a bright orange rounded rectangle containing the text "Previously Recorded" in white, "VIEW NOW" in large blue letters, and a white cursor icon pointing at a circular target. Below this, the title "Understanding Disease Progression Models" is written in a bold, yellow, sans-serif font. Underneath the title, a white text block contains the questions "What are they, why are they useful, and how are they applied in rare and orphan diseases?" followed by "A high-level overview." In the bottom left, a portrait of Luke Kosinski, a bald man with a beard wearing a grey sweater over a white shirt and blue tie, is shown. At the very bottom, a solid blue banner contains the speaker's name and title in white text.

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**Understanding Disease  
Progression Models**

What are they, why are  
they useful, and how  
are they applied in rare  
and orphan diseases?  
A high-level overview.

**Luke Kosinski, Ph.D.**  
Senior Quantitative Medicine Scientist,  
Regulatory Strategy, C-Path

Disease progression modeling synthesizes statistics with disease knowledge and data to inform predictions and understanding of disease course in populations and subpopulations and is commonly used in model-informed drug development. Using examples from rare and orphan diseases, this webinar looks to break down the high-level ideas behind disease progression models, exploring what they are, what they do, and

why they are useful.

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