Medical Device Pathways to Market:

Are You Sure You Know The Best Regulatory Pathway For Your New Medical Device?

Presented by:

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and

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GreenLight.Guru Webinar (April 2, 2020) www.greenlight.guru/webinar/are-you-sure-you-know-the-bestregulatory-pathway-for-your-new-medical-device

For questions or more information, call (508) 887 – 9486 or e-mail mdrues@vascularsci.com

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Are You Sure You Know the Best Regulatory Pathway for Your New Medical Device?

presented by: Michael Drues, Ph.D.

So you've determined the classification of your medical device or in vitro diagnostic and now it's time to select a regulatory pathway to market. Pretty straightforward decision, right? If your technology is basically the same as an existing device, you choose 510k. If not, then PMA. End of discussion, right?

Not necessarily. Sure, you can follow in the footsteps of the many device makers who have gone before you. Or better yet, you can evaluate all the potential options available and select the path that gives your product the best chance to succeed in an increasingly competitive and challenging market.

In this workshop, we will explore \underline{all} pathways to market — including the little-known and little-used ones — and discuss how to decide which to use when. Using the case study approach, these questions and others will be presented in an interactive fashion including:

- What are <u>all</u> the pathways to market and the advantages and disadvantages of each?
- How do I decide which one to use and when?
- If my device is class III, is the PMA my only option? If my device is class II, is the 510k my only option?
- How does the Breakthrough Devices Program (BDP) and Safer Technologies Program (STeP) affect pathway options?
 Can L market a device without any EDA eventiable what appendix
- Can I market a device without any FDA oversight whatsoever?
- If someone else brought a similar device to market using one pathway, must I use the same pathway?
- Must I choose only one pathway? Can I use multiple pathways for the same device at the same time?
- How can I use label expansions to bring my device to market with less time, money and risk?
- How can I get my device on to the market and make it more difficult for my competitors at the same time?
- How do I integrate regulatory strategy with reimbursement strategy, product liability strategy, IP strategy, etc.?

Bottom line: not only are there multiple pathways to market but there advantages and disadvantages to each pathway one. You can combine them, mix and match them, do very interesting things with them... all examples of *competitive regulatory strategy*. So, unless you understand all of the different possible pathways to market for your device — not just the most common ones – and the advantages and disadvantages to each, how can you decide when to use or not use each one? There are many more possibilities than most people think and learning how best to use them is creative regulatory strategy!

What to know more? See:

Podcast: *How to choose the right FDA regulatory pathway for your device* (Feb, 2020) <u>here</u>. Column: *Are You Sure You Know the Best Pathway for Your New Medical Device?* (MED Device Online here / podcast here

For a comprehensive list of columns, webinar, podcasts, etc., visit Global Medical Device Podcast (GreenLight.Guru) <u>here</u>, Mike on MedTech (Medical Product Outsourcing) <u>here</u>, Medical Design and Outsourcing <u>here</u>, Guerilla Regulatory Strategy (MED Device Online) <u>here</u> and Healthcare Packaging <u>here</u>, LinkedIn <u>here</u>.

Speaker Biography



<u>Michael Drues</u>, Ph.D., is a regulatory strategy consultant specializing in designing novel regulatory strategies to bring new and innovative medical products to market and in developing effective communication strategies between companies and regulatory agencies to minimize time to market and avoid delays.

Dr. Drues received his B.S., M.S., and Ph.D. degrees in Biomedical Engineering from Iowa State University. He works with leading medical device, pharmaceutical and biotechnology companies ranging in size from start-ups to Fortune 100 companies. He also works on a

regular basis for the U.S. Food and Drug Administration, Health Canada, the US and European Patent Offices, the Centers for Medicare and Medicaid Services and other regulatory and governmental agencies around the world.

Dr. Drues is an internationally recognized expert and featured keynote speaker on cutting-edge medical technologies and regulatory affairs. He conducts seminars and short-courses for medical device, pharmaceutical and biotechnology companies, the FDA, Health Canada, the US and European Patent Offices, CMS and other regulatory and governmental agencies around the world.

Finally, Dr. Drues is an Adjunct Professor of Regulatory Affairs, Medicine and Biomedical Engineering at several universities and medical schools. He regularly teaches graduate courses in Medical Device Regulatory Affairs and Product Development, Combination Products, Regulatory Affairs and Clinical Trials, Clinical Trial Design and Pathophysiology.

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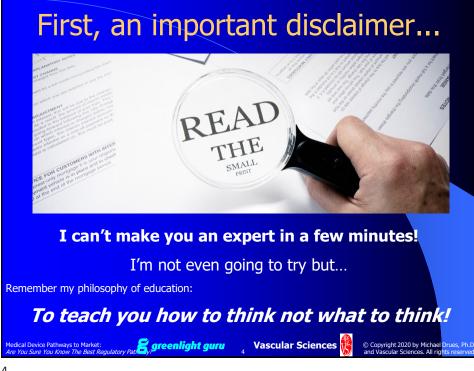
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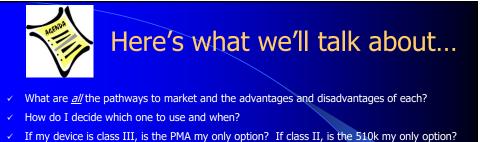
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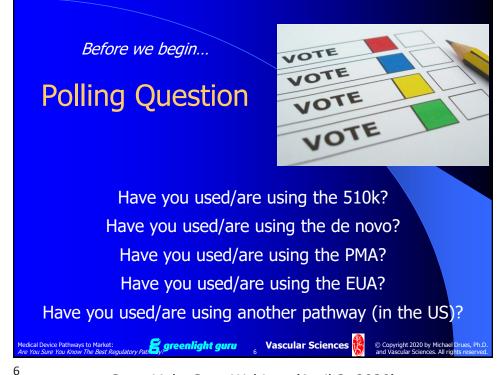
- ✓ Does *Breakthrough Devices Pgrm* (BDP) and *Safer Technologies Pgrm* (STeP) affect options?
- Can I market a device without any FDA oversight whatsoever? (wellness exemption)
- ✓ If someone else brought a similar device to market using one pathway, must I use the same?
- Must I choose only one pathway? Can I use multiple pathways for same device at same time?
- How can I use label expansions to bring my device to market with less time, money and risk?
- Can I get my device to market and make it more difficult for my competitors at same time?
- How do I integrate regulatory strategy with reimbursement, product liability, IP, etc.
- Bonus: can I use the Emergency Use Authorization (EUA) for COVID-19?
- ✓ Lots more tips and tricks... time permitting!
- ✓ Final thoughts...

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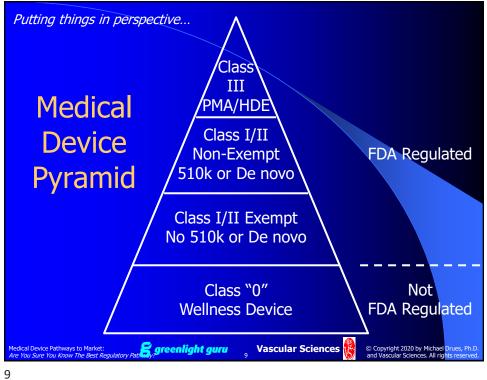


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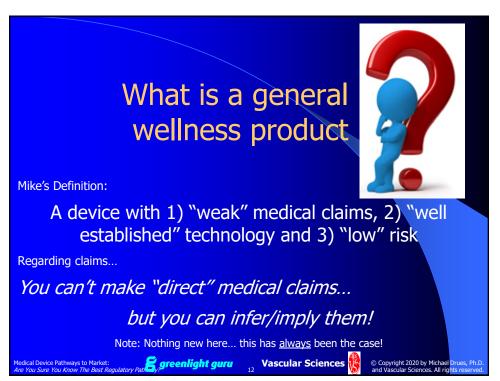
- 1. Not PMA, 510k, de Novo, HDE or CDE but... Is it a <u>regulated</u> medical device?
- 2. What classification?
 - Class I, Class II, Class III
 - Depends on level of "risk"

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3. Select appropriate marketing application, i.e., regulatory pathway

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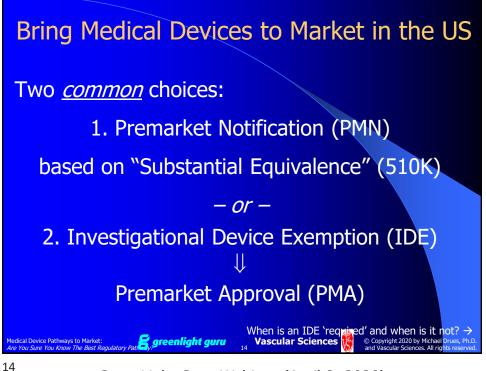
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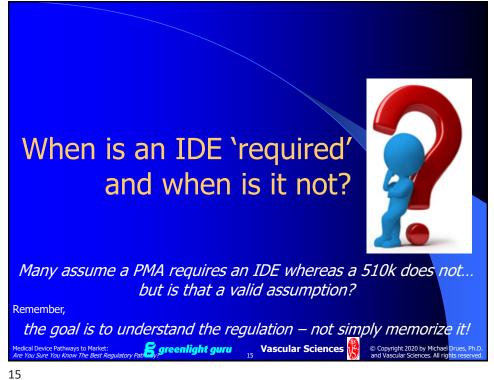
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How many 510 510(k) Premarket Notification • FDA Home • Medical Devices • Databases	lk devices h	ave clinic	al data?
A 510(K) is a premarket submission made to FDA to demonstrate as sale and effective, that is, substantably equivalent, to a legality that is no subject to premarket approval. Learn more	marketed device (21 CFR § <u>807 92(a)(3)</u>)	Go to the 510 tick 'Clinical Tria	
Result → Does that seem small? Is this a problem?	Premarket Notification Model Process States I (as of 346 Results Code To States) New Search Device Name Code: Cooled f Probe Carestream Vale Pacs Page Automatic Blood Slacose Monitoring	Applicant Halyard Health, Inc. Carestream Health, Inc. Intuity Medical, Inc.	Results per Page 500 cel I Download Files Mons About 5108) 500(5) Kussad Kussada Kussada 04/13/2017 Kussada Vussada Kussada Vussada Vussadaa Vussadaa Vussadaa
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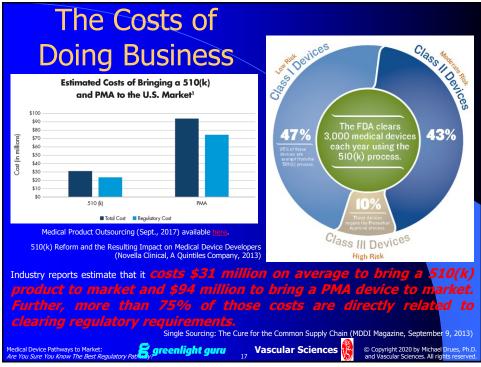
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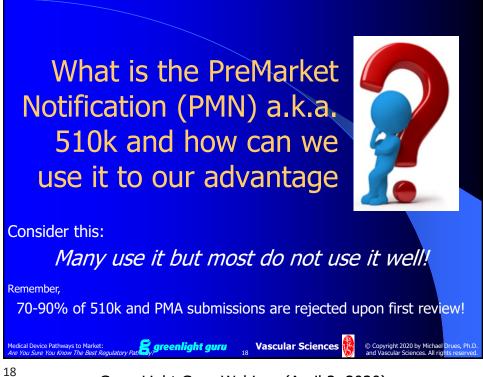
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Is there a Governing Equation of the 510k?

Two fundamental equations of the 510k are:

1) **510k = SE + Risk**

and

2) SE = Labeling + Technology

To simplify, combining 1) and 2) gives the Governing Equation of the 510k:

510k = (Labeling_{se} + Technology_{se}) + Risk

Note: Risk = Risk_{Bucket1} + Risk_{Bucket2} + Risk_{Bucket3}

Simply put, any successful 510k has to solve the equation above i.e.,

valid and defensible solution \rightarrow 510k

no, invalid or indefensible solution \rightarrow de novo, PMA.

In other words ..

Don't focus on what the regulation says – focus instead on understanding the *regulatory logic*, i.e., *thinking process*, which is infinitely more important than regulation! Medical Device Pathways to Market: *Are You Sure You Know The Best Regulatory Path greenlight guru* 20 Vascular Sciences **W** • Copyright 2020 by Michael Druse, Ph.D. and Vascular Sciences. All right reserved.

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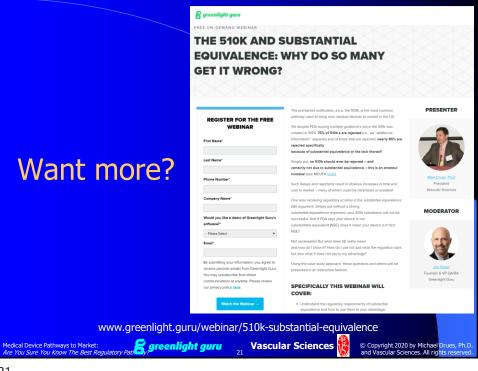
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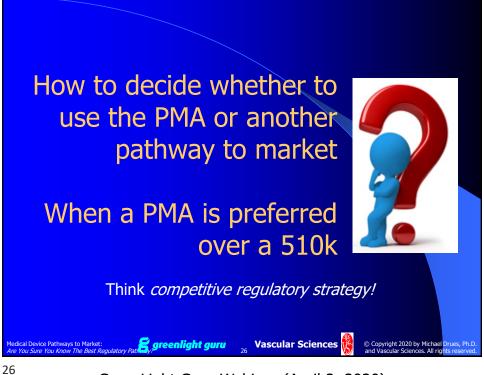
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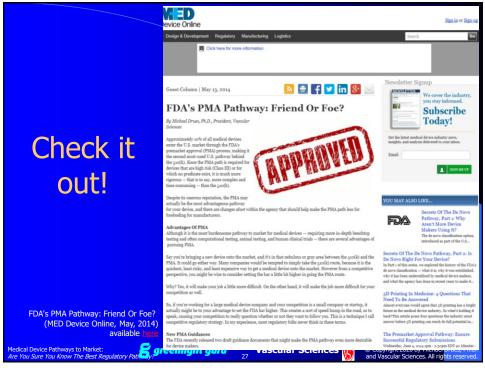
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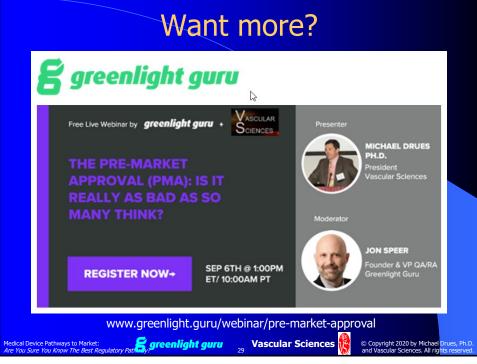
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Product Development Protocol (PDP)

- ✓ sub-type of PMA... technically
- ✓ ideal candidates are devices where technology is 'well established'
- PDP is essentially a contract (i.e., a meeting of the minds) that allows sponsor to reach early agreement with FDA concerning how to demonstrate safety and effectiveness of new device
- Manufacturer can move forward at their own pace and when the PDP has been declared completed by FDA, it's considered to have an approved PMA.

Recommendations:

✓ if you're developing a class III device using a technology that has been around for a while, this seldom used pathway is worth a look

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✓ for everyone else, consider this:

When thinking of the PDP as a contract i.e., a meeting of the minds, it is no different than any other pathway to market – an understanding as to what will be done from the beginning will say a lot of time and headache in the end! See CDRH website 'PMA Application Methods' available here.

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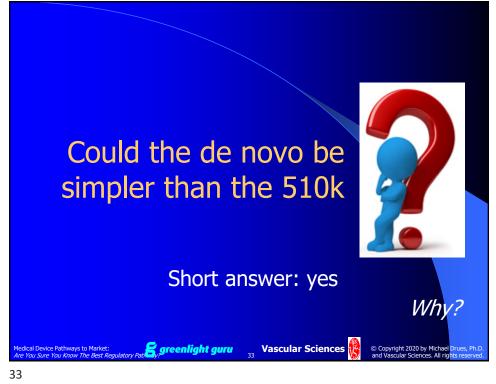
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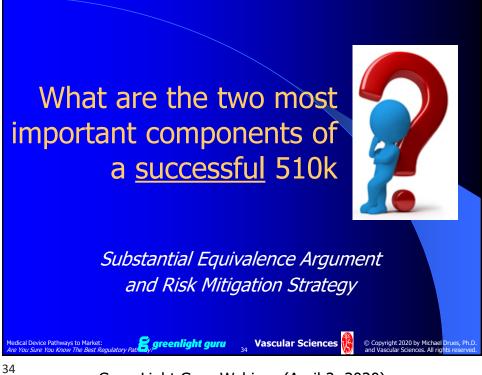
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What's the biggest advantage of the 'de novo' compared to the 510k

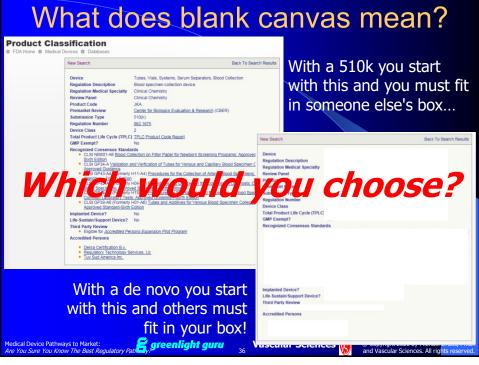




You're starting out with a blank canvas and you can paint on to it anything you would like – assuming you can support it that is! Who can explain?

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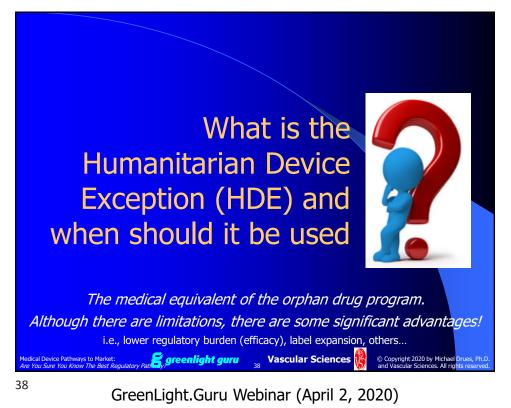
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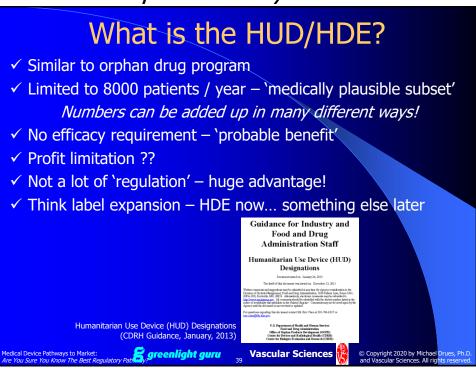


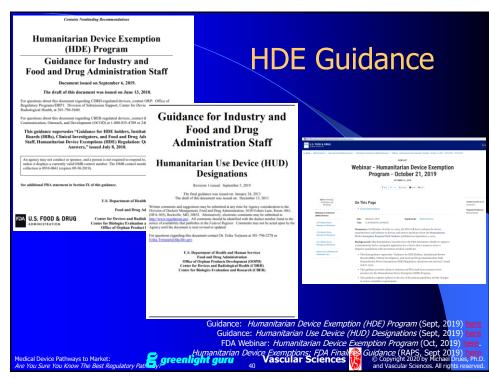
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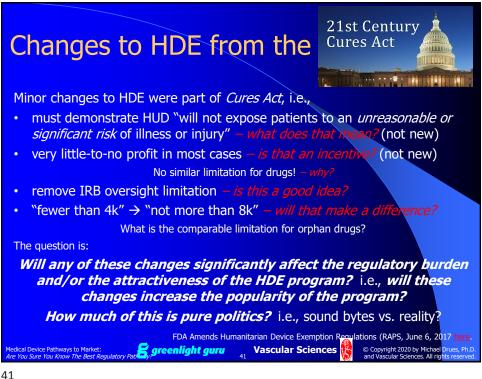
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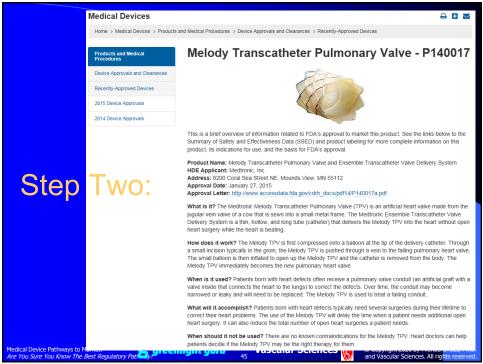


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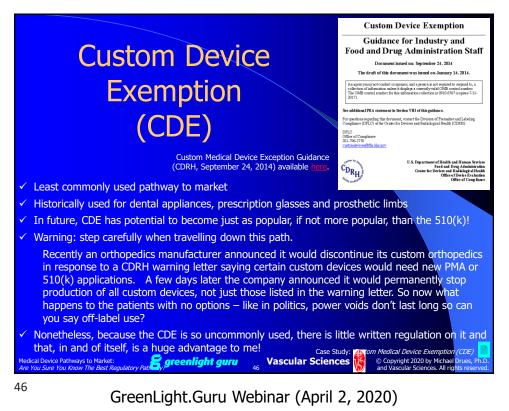
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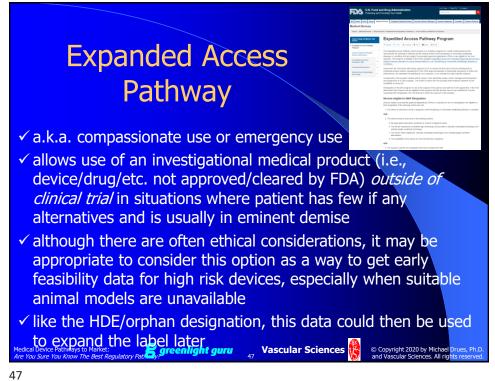


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"Accelerated" Pathway Option Comparison

	Priority Review Program (PRP)	Expedited Access Program (EAP)	Breakthrough Devices Program (BDP)
Eligibility	human disease or conditions; and 1. Represents a breakthrou 2. No approved alternative 3. Offers significant advant		
Applications Accepted	PMA, DeNovo, 510(k), PDP	IDE, PMA, DeNovo ¹	Q-Sub, IDE, PMA, DeNovo, 510(k)
Interactive Review	No	Yes	Yes
Sr. Management Involvement	No	Yes	Yes
Sprint Discussions	No	No	Yes
Data Development Plan(DRD)	No	Yes	Not mandated
Clinical Protocol Agreement	No	No	Yes
Regular Status Updates	No	No	Yes
When to submit request for designation	At time of marketing application	Included in a Q-Sub, preferably prior to IDE pivotal study.	Before submission of a marketing application. Requests should be made in a separate Q-Sub
FDA timeframe for granting/rejecting request	 510{k} or DeNovo = 14 days within receipt of submission PMA: during the 45 days filing review 	Within 30 days of receipt ³	Within 60 days of receipt
Review Time	Eligible applications will be placed at the beginning of the review queue. PRP applications reviewed on a first-in/first- reviewed basis.	PMAs with EAP designation receive Priority Review. De novo requests with EAP designation - FDA intends to make a determination in less than 120 days	Same as PRP
 Not all provisions of the EAP are a ² Includes combination products un ³ If there is insufficient information received within 30 days, FDA ma 	der the device pathway. for FDA to make a decision, FDA may re	equest the sponsor submit additional inform	nation. If additional information is not

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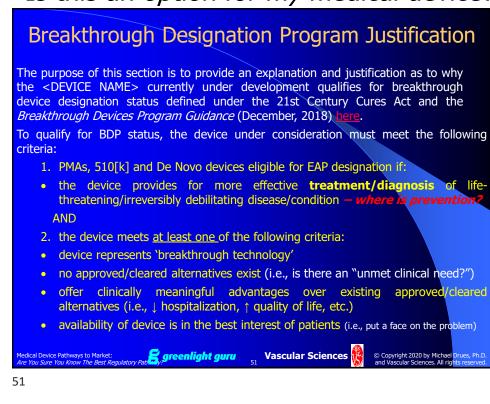
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Medical Device Pathways to Market: Are You Sure You Know The Best Regulatory Path	

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For additional information, www.linkedin.com/in/michaeldrues, call (508) 887-9486 or e-mail mdrues@vascularsci.com

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How many ways (i.e., pathways) are there to get medical devices on to the market in the United States? Not so short list: 1. Wellness Exemption 2. Class I Exempt / Class II Exempt 3. Pre-Market Notification a.k.a. 510k 4. De Novo 5. Pre-Market Approval (PMA) 6. Humanitarian Device Exemption (HDE) ...and you can even mix and match. 7. Custom Device Exemption (CDE) Combination products? 8. Expanded Access Pathway Combination Regulatory Strategy 9. Emergency Use Authorization (EAU) Plus: Breakthrough Devices Program (BDP) and Safer Technologies Program (STeP) BDP and STeP are not pathways *per se* but certainly worth considering © Copyright 2020 by Mich 🖁 greenlight guru Vascular Sciences 62

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There are many pathways to market...

Many more than drugs!

And it can be confusing...



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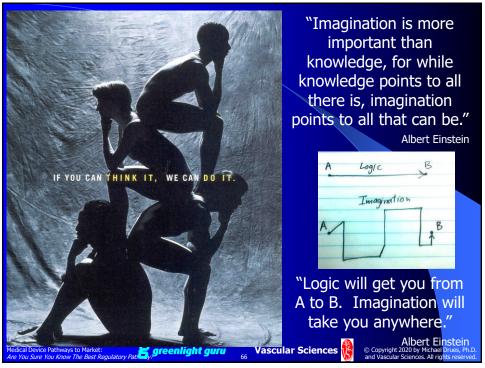
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