SIGNIFICANT RISK VS. NONSIGNIFICANT RISK DEVICES:

WHAT'S THE DIFFERENCE & WHY DOES IT MATTER?

presented by:

Michael Drues, Ph.D.

President, Vascular Sciences Carlsbad, California

and

Adjunct Professor of Regulatory Science, Medicine and Biomedical Engineering

Cornell University Graduate Dept. of Biomedical Engineering

GreenLight.Guru (February 15, 2024)

https://www.greenlight.guru/webinar/significant-vs-nonsignificant-risk-devices

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

© Copyright 2024 by <u>Vascular Sciences</u> and <u>Michael Drues, Ph.D.</u> All rights reserved.

SIGNIFICANT RISK VS. NON-SIGNIFICANT RISK DEVICES:

What's the difference and why does it matter?

presented by: Michael Drues, Ph.D.

In the US, there are three *independent* but also *interdependent* systems to categorize the risk a medical device poses. Perhaps the best known is the classification system, i.e., Class I, Class II and Class III. A second system is the Software Documentation Level, i.e., basic or enhanced system (formerly known as the Software Level of Concern, i.e., Class A, Class B or Class C system). Finally, the third important but seldom talked about risk system is the <u>Significant Risk</u> (SR) vs. <u>Non-Significant Risk</u> (NSR) system.

There is plenty of information available on the classification and software risk systems as well as SR devices, e.g., their regulatory requirements and the IDE process. However, there is much less available on how to handle an NSR device. Given that the vast majority of devices are NSR, what is a manufacturer of a NSR device to do?

Using his unique signature style, Dr. Drues will use the case study approach to take a detailed looked at the various risk systems focusing on the SR vs. NSR system including:

- What is a significant risk (SR) vs. non-significant risk (NSR) device?
- How does the SR vs. NSR system compare to the other systems of risk?
- Who determines if my device is SR or NSR and how is the determination made?
- Why does SR vs. NSR matter? What are the requirements of each?
- If my device is SR, what do I do? If my device is NSR, what do I do?
- When and how should you take my SR vs. NSR determination to the IRB(s) and/or FDA?
- Does my device need a clinical trial? How are clinical trials different for SR vs. NSR devices?
- How should I select clinical trial sites and IRB's?
- Is there a template for the SR vs. NSR determination?
- Should I do a pre-submission meeting with FDA for an NSR device even though it's *not* required?
- What are the challenges for the future?

Using the case study approach, participants will learn best practices to avoid timely and costly mistakes as well as creative ways to use the SR vs. NSR system to their advantage!

Additional Resources

- Podcast: 3 systems of Risk (Mike on Medtech, Sept, 2021) here.
- ▶ Podcast: 3 Systems of Risk for Medical Devices from FDA (April, 2021) here
- Presentation: Risks that No One Wants to Talk About here
- Webinar: The Many Connotations of Risk and the Consequences of Getting Them Wrong (Mar, 2017) here.
- Podcast: Significant Risk vs. Non-Significant Risk Devices What's the Difference? (Feb., 2017) here
- Podcast: Using the Bucket Method for Medical Device Risk Management (Dec, 2016) here.
- Column: The Many Connotations Of Risk and the Consequences of Getting Them Wrong (Aug., 2015) here.

Additional columns, articles, podcasts and webinars can be found: Global Medical Device Podcast (GreenLight.Guru) here, Mike on MedTech (Medical Product Outsourcing) here, Medical Design and Outsourcing here, Guerilla Regulatory Strategy (MED Device Online) here and Healthcare Packaging here or LinkedIn here.

Presenter Bio



<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.

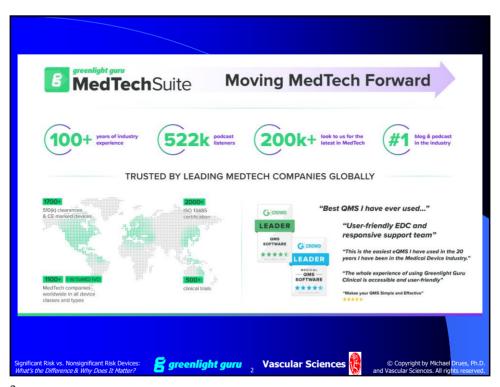
Dr. Drues is an internationally recognized expert and featured keynote speaker on cutting-edge medical technologies and regulatory affairs. He conducts seminars and short-courses for medical device, pharmaceutical and biotechnology companies,

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 Regulatory Affairs and Clinical Trials, Medical Device Regulatory Affairs and Product Development, Combination Products and Pathophysiology.

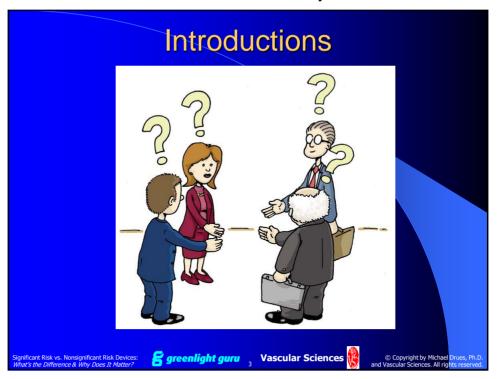
What's the Difference & Why Does It Matter?





GreenLight.Guru Webinar (February 15, 2024) https://www.greenlight.guru/webinar/significant-vs-nonsignificant-risk-devices

What's the Difference & Why Does It Matter?



3

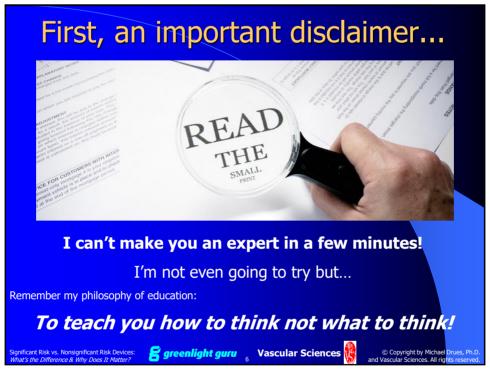


GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



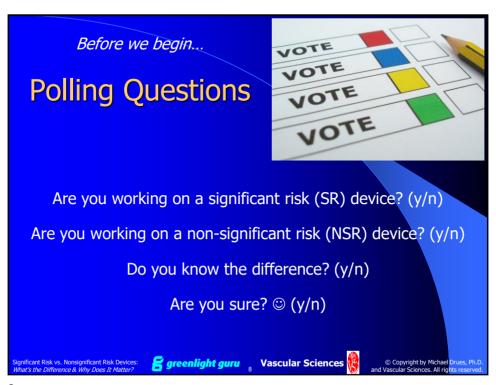
5



GreenLight.Guru Webinar (February 15, 2024)

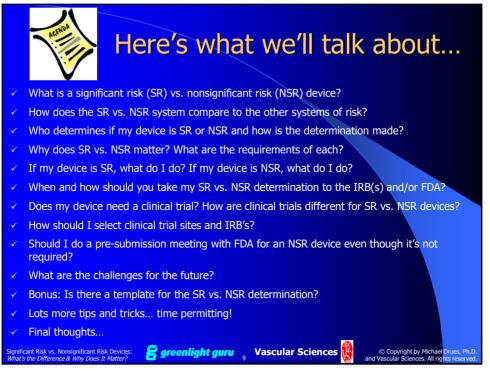
What's the Difference & Why Does It Matter?





⁸ GreenLight.Guru Webinar (February 15, 2024) https://www.greenlight.guru/webinar/significant-vs-nonsignificant-risk-devices

What's the Difference & Why Does It Matter?

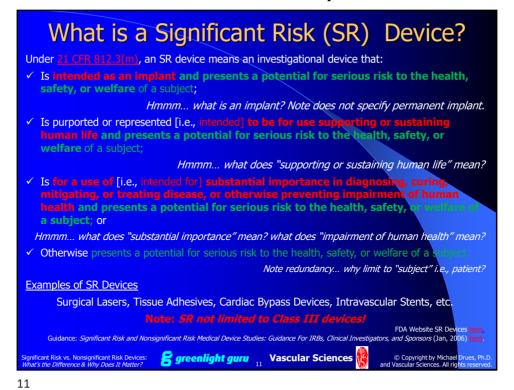


9



GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



What is a Non-Significant Risk (NSR) Device?

Under 21 CR 812.3(m), an NSR device means an investigational device that:

"...does not meet the definition for an SR device." – nothing else said!

Does this help?

Examples of NSR Devices

Contact Lens Solutions, Dental Filling Materials, Digital Mammography, Ureteral Stents, etc.

Mike's Recommendation:

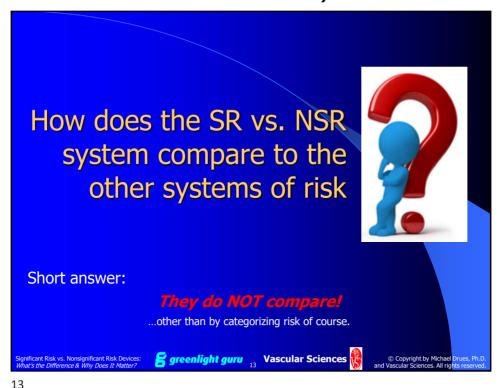
Start by assuming your device is SR, then prove its not!

Guidance: Significant Risk and Nonsignificant Risk Medical Device Studies: Guidance For IRBs, Clinical Interpretations and Sponsors (Jan, 2016) [1887.

Guidance: Significant Risk and Nonsignificant Risk Medical Device Studies: Guidance For IRBs, Clinical Interpretation of Copyrigity Michael Device, Ph.D.

GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



Podcast: Three Systems of Risk Three systems for risk: classification, SR vs. NSR, Basic/Enhanced Documentation (formerly sLOC) stem stratifies risk in layers (i.e., classes), e.g., Class I, II, or III The higher the class, the higher the risk. The lower the class, the lower the risk Gross oversimplification and there are a ton of exceptions Classification in US does not translate linearly to class in EU and elsewhere Similar systems but are philosophically different, i.e., NSE (pun intended!) SR vs. NSR system important in clinical trials Does device require an investigational device exemption (IDE) or is it IDE Exempt? Determination of SR vs. NSR is not made by FDA or IRB but the medical device company. ➤ Is this the fox in charge of the henhouse? Absolutely... but that's what the reg says! ntation (formerly sLOC, i.e., class a, b, and c) determines level of documentation required for software Reminder: Default classification for any new medical device is Class III. Reminder: When it comes to labeling, say anything you want... so long as you can support it. However, if same technology but different labeling, risk also changes (usually).

GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?

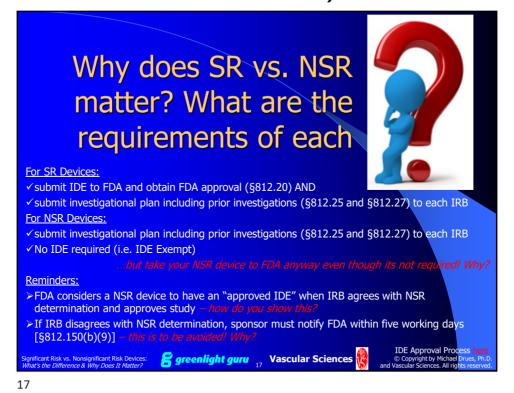


15



GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



If my device is SR, what do I do? If my device is NSR, what do I do

In a nutshell...

If device is SR, notify FDA (via IDE) and all IRB's

If device is NSR, not required to notify FDA (IDE Exempt) but still notify all IRB's

Significant Risk us. Norsignificant Risk Devices:

Significant Risk us. Norsignificant Risk us. Norsignificant Risk us. Norsignificant Ri

GreenLight.Guru Webinar (February 15, 2024)

https://www.greenlight.guru/webinar/significant-vs-nonsignificant-risk-devices

18

What's the Difference & Why Does It Matter?



Does my device need a clinical trial

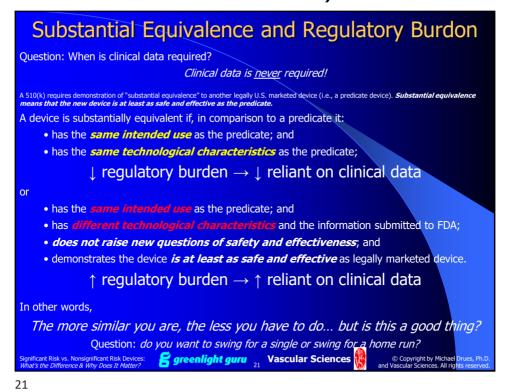
Unlike many believe...

This is not a regulatory decision... at least not completely!

GreenLight.Guru Webinar (February 15, 2024) https://www.greenlight.guru/webinar/significant-vs-nonsignificant-risk-devices

greenlight guru 20 Vascular Sciences

What's the Difference & Why Does It Matter?



How are clinical trials different for

SR vs. NSR devices

Regardless of SR/NSR determination.

- Labeling device must be labeled in accordance with IDE regulations (§812.5) and must bear the statement "CAUTION - Investigational Device. Limited by Federal (or United States) law to investigational use.
- Distribution Investigational devices can only be distributed to qualified investigators §812.43(b).
- Informed Consent Each subject must be provided with and sign an informed consent form before being enrolled in the study (21 CFR 50, Protection of Human Subjects)
- Monitoring All investigations must be properly monitored to protect the human subjects and assure compliance with approved protocols (§812.46)
- Prohibitions Commercialization, promotion, and misrepresentation of an investigational device and prolongation of the study are prohibited (§812.7).
- Records and Reports Sponsors and investigators are required to maintain specified records and make reports to investigators, IRBs, and FDA (§812.140 and §812.150).







IDE Approval Prod

22

GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



Should I do a presubmission meeting with FDA for an NSR device even though it's not required

Short answer:

**Most Mulicipate | Militage | Mil

GreenLight.Guru Webinar (February 15, 2024)

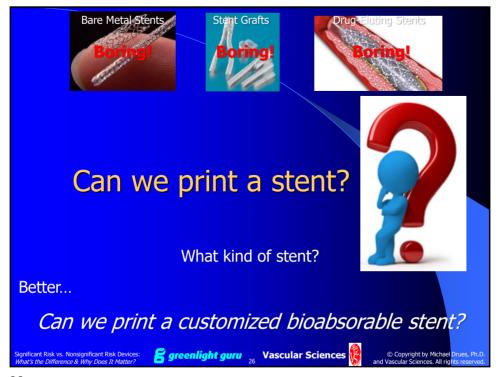
https://www.greenlight.guru/webinar/significant-vs-nonsignificant-risk-devices

24

What's the Difference & Why Does It Matter?

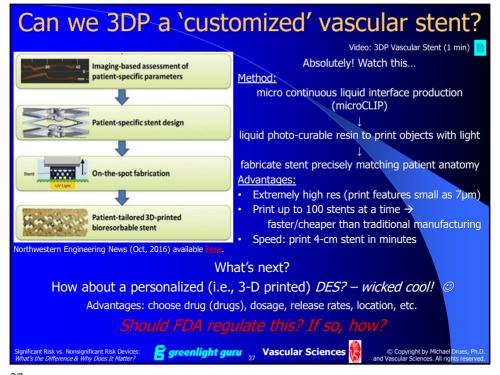


25

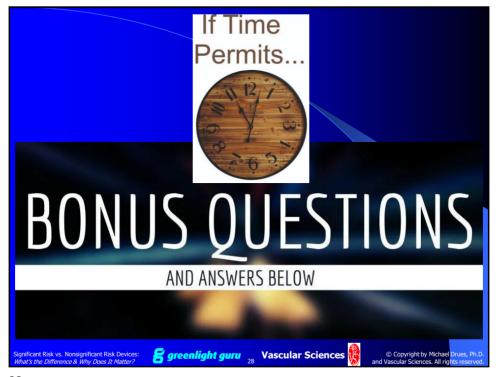


GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



27



GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



For those who like templates...

Fill in

the

blanks

Can you say thinking inside the box? No creativity? No imagination?

But if you really want one, I have one...

NSR Justification Example Template here (not publicly available...sorry)

Significant Risk vs. Norsignificant Risk Devices:

What's the Difference & Why Does It Natter?

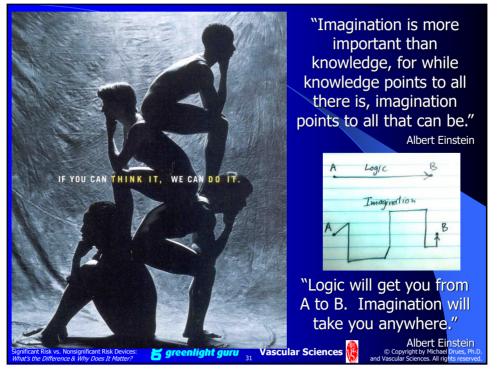
Significant Risk vs. Norsignificant Risk Devices:

Wascular Sciences

**O Copyright by Michael Druce, Ph.D.
and Vascular Sciences. All rights reserved.

GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?

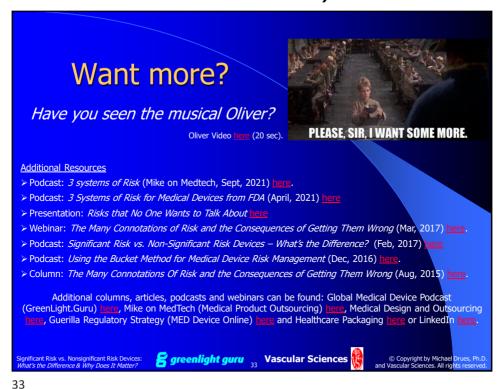


31



GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



Information Sheet Guidance For IRBs, Clinical Investigators, and Sponsors

Significant Risk and Nonsignificant Risk Medical Device Studies

Office of Special Medical Programs, Office of the Commissioner Food and Drug Administration (1960) 1979-198-1993 (1961) 1979-198-1993 (1961) 1979-198-1993 (1961) 1979-198-1993 (1961) 1979-198-1993 (1962) 1979-1993 (1962) 19

GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?

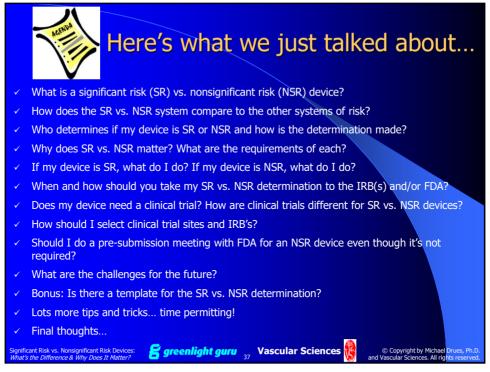


35



GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



37

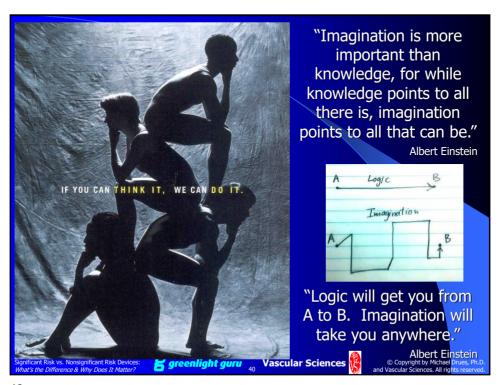


GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



39



GreenLight.Guru Webinar (February 15, 2024)

What's the Difference & Why Does It Matter?



41



GreenLight.Guru Webinar (February 15, 2024)