Characterizing And Communicating Uncertainty In The Essment Of Benefits And Risks Of Pharmaceutical Products Workshop Summary

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Communicating Uncertainty ~~GSS sharing webinar: communicating uncertainty in statistics and analysis~~ PLOTCON 2017: Brent Cohn, Communicating Uncertainty in Business Analytics Charles Manski: Communicating Uncertainty in Policy Analysis ~~Communicating Uncertainty~~

Characterizing coherent errors efficiently, robustly, and simply

Communicating risk and uncertainty: talk by Professor David SpiegelhalterJohn Novembre \"Methods to characterize geographic structure in genetic variation\" Webinar 2020 #6 - Communicating the uncertainty in official data Characterizing Uncertainty Professor Dave Reay - Communicating uncertainty Decision-Making Under Uncertainty in Research Synthesis: Designing for the Garden of Forking Paths Embracing Uncertainty | Joshua Bailey | TEDxYouth@RVA Coping With Uncertainty Decision Analysis (Part 1) Tutorial -Introduction, Decision Making under Certainty and Uncertainty Carlo Rovelli | Helgoland: Making Sense of the Quantum Revolution | Talks at Google The Quantum Experiment that Broke Reality | Space Time | PBS Digital Studios Past and Present | Technology Then and Now Something Deeply Hidden | Sean Carroll | Talks at Google ~~Ram Dass – Here and Now – Ep. 144 – Accepting How It Is~~ Cross-Cultural Management Communicating uncertainty to aid decision-making Science + Science Writing: Communicating about climate across political divides ~~Navigating An Uncertain World: Two Books to Guide the Way~~ Communicating, Understanding and Using Uncertain Information in Everyday Decisions, Part 2 - 2014 ~~Reflections on framing and making decisions in the face of uncertainty (M. Granger Morgan)~~ ~~CHM Live | Girl Decoded: Rana el Kaliouby in Conversation with NPR Contributor Aarti Shahani~~ Effective Risk Communication Practices for Natural Hazards

Madhu Sudan. Communication Amid UncertaintyCharacterizing And Communicating Uncertainty In
This chapter examines some of the easier ways. This book's concept and definition of uncertainty cover a very broad sense, including the four basic sources of uncertainty that prevail throughout the ...

Chapter 17: Characterizing Uncertainties
At MWC21, Rohde & Schwarz demonstrates, together with VIAVI, its R&S CMX500 radio communication tester and ... a small footprint to test with low measurement uncertainty. This solution is ideal for ...

Rohde & Schwarz presents its comprehensive solutions for 5G NR device testing at MWC21 in Barcelona
Kalamazoo Public Schools is characterizing the challenges the ... some parents held off on enrolling their children due to the uncertainty of instruction this year. She noted the district can ...

From masks to learning loss, these are 5 big questions facing Michigan schools this fall
National laboratory performance characterization R&D is being performed in the following areas: Characterizing Emerging Technologies ... SunShot goals by improving the accuracy and reducing the ...

Performance Characterization
Physicians in our U.S.-based study described a range of decision making challenges, including uncertainty in diagnosing chronic non-cancer pain conditions, discomfort assessing opioid-related ...

Decision Support for Chronic Pain Care: How Do Primary Care Physicians Decide When to Prescribe Opioids? A Qualitative Study
Skills taught for characterizing, developing ... Situations in which there is no basis for probabilities; decisions made under conditions of uncertainty. Use of applications of decision theory to help ...

Chapter 14: Department of Engineering Management and Leadership
In addition, new approaches to identify regions of alignment uncertainty can be used ... is now a common approach to identifying and characterizing functional regions in vertebrate genomes.

Approaches to comparative sequence analysis: towards a functional view of vertebrate genomes
Characterizing the risk constitutes the final step of the ... are determined based on healthy individuals (not ill patients), we will divide the TLV by an uncertainty factor of 100, i.e., 10 to ...

Conducting Health-Based Risk Assessments of Medical Materials
Flexibility, communication and strong engagement with students ... combined with the overall uncertainty characterizing higher education these days, has led institutions like Ivy Tech Community ...

Student Success Takes on New Meaning Amid Remote Learning

In Year 3 Fall take Composition/Communication instead of Social and Behavior Sci. In Year 4 Fall take SS/EC/PSY course instead of Composition/Communication. In Year 2 ...

Civil Engineering General Path Flow Chart
It emphasizes quantitative analysis, computing, and communication skills ... Wagner, J. (2005). "Characterizing Regulation and Negligence Rule Uncertainty in Solid Waste Management." Economics ...

Department of Economics
Projected contributions of the CFWSC in the upcoming decade include: The CFWSC has developed capabilities in geophysical techniques for characterizing the subsurface ... concepts such as uncertainty ...

CFWSC Strategic Science Plan - Programmatic Areas and Plans
The NREL algorithm also handles calculations up to the year 6000, where the previous version of the algorithm was limited to 15 years and created an uncertainty in the ... or photovoltaic technology, ...

Solar Tracking Makes Use of Industrial Control
CEE 4610 and CEE 4650 are not yet electives. 2018-19 and 2017-18 and 2016-17 Take Co-Curricular Unit at 0.5 credits in Year 2 Fall instead of Year 2 Spring. In Year 3 ...

Civil Engineering Water Resources Path Flow Chart
Marketers ought to start communicating with customers as if ... "A lot of what's going on is driven by uncertainty about [future finances], more than individual budgets," he said of the ...

The Price of the New Frugality
His notable contributions include discovering and characterizing proteins involved in DNA repair ... For further information, please visit www.onxeo.com. This communication expressly or implicitly ...

Onxeo Announces Formation of Scientific Advisory Committee of Leading Independent Experts
The Dragonfly telescope was an incredible tool for initially identifying and characterizing this galaxy ... with just a 4 million light-year uncertainty to it. That's what's so exciting ...

Despite the extensive body of evidence that informs regulatory decisions on pharmaceutical products, significant uncertainties persist, including the underlying variability in human biology, factors associated with the chemistry of a drug, and limitations in the research and clinical trial process itself that might limit the generalizability of results. As a result, regulatory reviewers are consistently required to draw conclusions about a drug's safety and efficacy from imperfect data. Efforts are underway within the drug development community to enhance the evaluation and communication of the benefits and risks associated with pharmaceutical products, aimed at increasing the predictability, transparency, and efficiency of pharmaceutical regulatory decision making. Effectively communicating regulatory decisions necessarily includes explanation of the impact of uncertainty on decision making. On February 12 and May 12, 2014, the Institute of Medicine's Forum on Drug Discovery, Development, and Translation held public workshops to advance the development of more systematic and structured approaches to characterize and communicate the sources of uncertainty in the assessment of benefits and risks, and to consider their implications for pharmaceutical regulatory decisions. Workshop presentations and discussions on February 12 were convened to explore the science of identifying and characterizing uncertainty in scientific evidence and approaches to translate uncertainties into decisions that reflect the values of stakeholders. The May 12 workshop presentations and discussions explored tools and approaches to communicating about scientific uncertainties to a range of stakeholders in the drug development process. Characterizing and Communicating Uncertainty in the Assessment of Benefits and Risks of Pharmaceutical Products summarizes the presentation and discussion of both events. This report explores potential analytical and communication approaches and identifies key considerations on their development, evaluation, and incorporation into pharmaceutical benefit- risk assessment throughout the entire drug development lifecycle.

Uncertainty is a fundamental characteristic of weather, seasonal climate, and hydrological prediction, and no forecast is complete without a description of its uncertainty. Effective communication of uncertainty helps people better understand the likelihood of a particular event and improves their ability to make decisions based on the forecast. Nonetheless, for decades, users of these forecasts have been conditioned to receive incomplete information about uncertainty. They have become used to single-valued (deterministic) forecasts (e.g., "the high temperature will be 70 degrees Farenheit 9 days from now") and applied their own experience in determining how much confidence to place in the forecast. Most forecast products from the public and private sectors, including those from the National Oceanographic and Atmospheric Administrationâ€s National Weather Service, continue this deterministic legacy. Fortunately, the National Weather Service and others in the prediction community have recognized the need to view uncertainty as a fundamental part of forecasts. By partnering with other segments of the community to understand user needs, generate relevant and rich informational products, and utilize effective communication vehicles, the National Weather Service can take a leading role in the transition to widespread, effective incorporation of uncertainty information into predictions. "Completing the Forecast" makes recommendations to the National Weather Service and the broader prediction community on how to make this transition.

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This report reviews the U.S. Climate Change Science Programâ€□s new draft assessment product on characterizing and communicating uncertainty information for climate change decision making, one of 21 climate change assessment products that the program is developing to meet the requirements of the 1990 Global Change Research Act. Although the draft assessment is effective in discussing methods of characterizing uncertainty, it falls short in several ways. It is written for researchers involved in assessment efforts and will likely be of use to them, but does not address other key audiences, particularly policymakers, decision-makers, and members of the media and general public. In addition, it does not assess the full range of "best practice approaches" for characterizing, incorporating, and communicating uncertainty. These weaknesses were due in part to a change in the prospectus after the process had begun to include new target audiences and a different scope of work. It will take a substantial revision of the current draft or production of a companion document, both requiring additional authors, to address these issues.

As climate change has pushed climate patterns outside of historic norms, the need for detailed projections is growing across all sectors, including agriculture, insurance, and emergency preparedness planning. A National Strategy for Advancing Climate Modeling emphasizes the needs for climate models to evolve substantially in order to deliver climate projections at the scale and level of detail desired by decision makers, this report finds. Despite much recent progress in developing reliable climate models, there are still efficiencies to be gained across the large and diverse U.S. climate modeling community. Evolving to a more unified climate modeling enterprise-in particular by developing a common software infrastructure shared by all climate researchers and holding an annual climate modeling forum-could help speed progress. Throughout this report, several recommendations and guidelines are outlined to accelerate progress in climate modeling. The U.S. supports several climate models, each conceptually similar but with components assembled with slightly different software and data output standards. If all U.S. climate models employed a single software system, it could simplify testing and migration to new computing hardware, and allow scientists to compare and interchange climate model components, such as land surface or ocean models. A National Strategy for Advancing Climate Modeling recommends an annual U.S. climate modeling forum be held to help bring the nation's diverse modeling communities together with the users of climate data. This would provide climate model data users with an opportunity to learn more about the strengths and limitations of models and provide input to modelers on their needs and provide a venue for discussions of priorities for the national modeling enterprise, and bring disparate climate science communities together to design common modeling experiments. In addition, A National Strategy for Advancing Climate Modeling explains that U.S. climate modelers will need to address an expanding breadth of scientific problems while striving to make predictions and projections more accurate. Progress toward this goal can be made through a combination of increasing model resolution, advances in observations, improved model physics, and more complete representations of the Earth system. To address the computing needs of the climate modeling community, the report suggests a two-pronged approach that involves the continued use and upgrading of existing climate-dedicated computing resources at modeling centers, together with research on how to effectively exploit the more complex computer hardware systems expected over the next 10 to 20 years.

"Published under the joint sponsorship of the World Health Organization, the International Labour Organization and the United Nations Environment Programme, and produced within the framework of the Inter-Organization Programme for the Sound Management of Chemicals"--P. [i].

Assessment of human exposure to chemicals is a critical input to risk assessment and ultimately to decisions about control of chemicals. This two-part publication aims to improve the quality of information available to decision-makers and its communication. Part one sets out ten principles for characterizing and communicating uncertainty in exposure assessment. A tiered approach to the evaluation of uncertainties using both qualitative (simple) and quantitative (more complex) methods is described. Different sources of uncertainty are identified and guidance is provided on selecting the appropriate approach to uncertainty analysis as dictated by the objectives of the assessment and information needs of decision-makers and stakeholders. Part two addresses the quality of data used in exposure assessment and sets out four basic hallmarks of data quality - appropriateness accuracy integrity and transparency. These hallmarks provides a common vocabulary and set of qualitative criteria for use in the design evaluation and use of exposure assessments to support decisions. This publication is intended exposure assessors risk assessors and decision-makers.