



Editorial

Regulatory Science and Practices

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Regulatory science was initiated about in the late 20th century. It is the scientific discipline working at the interface of regulation and science. Regulation of medical products is critical to the maintenance and improvement public health. Medical regulatory agencies are typically executive departments responsible for regulation and supervision of medical products. In the United States, the Food and Drug Administration (FDA) works with state agencies to ensure the safety and efficacy of food, medication, and medical products. In the European Union, the European Medicine Agency is the European Union agency that evaluates medicinal products. Top priorities for medical regulatory agencies should be utilizing the best available science in medicine to facilitate medical practices, enabling faster access to scientific discovery and inventions, and ensuring public safety .

Environment issues, on the other hand, are also at the core of policy making. Knowledge of how human activities would impact the natural environment, positively or negatively, is still inconclusive. Our current environmental choices and policies will impact future living conditions. Success and mistakes often co-exist when human beings try to change the environment. Capability to estimate future risks and manage the consequences can positively help our society to move in the right direction vis-a-vis stewardship of the environment. The principle for policy making has to be based on probability estimation and projection.

In terms of regulation and the scientific disciplines, the scientific infrastructure for the modern world needs innovation. The need for science-based regulation is urgently needed to enable regulators to systematically review the vast scientific data, extract and analyze the most useful information, and develop best practices. Included in the current issue of Journal of Regulatory Science, practices in medicine regulatory agencies and environment policies are discussed. It is not the intent for this current issue of JRS to present or recommend the best science or practices; it is our intent to bring the topics into discussion.

The Journal of Regulatory Science (JRS) is devoted to publishing advances in regulatory science, including product testing, monitoring, surveillance method development, quality control, and quality assurance at no cost to the reader and author.