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Tony Cox is Chief Sciences Officer of NextHealth Technologies (www.nexthealthtechnologies.com), and Denver-based company offering advanced data analytics solutions to healthcare plans to reduce health, financial, and member attrition risks. President of Cox Associates (www.cox-associates.com), a Denver-based applied research company specializing in quantitative risk analysis, causal modeling, advanced analytics, and operations research. Since 1986, Cox Associates' mathematicians and scientists have applied computer simulation and biomathematical models, statistical and epidemiological risk analyses, causal data mining and machine learning, and operations research and artificial intelligence models to measurably improve health, business, and engineering risk analysis and decision-making for public and private sector clients. Since 1996, its sister company, NetAdvantage, has provided operations research services and software for telecommunications companies. In 2006, Cox Associates was inducted into the Edelman Academy of the Institute for Operations Research and Management Science (INFORMS), recognizing outstanding real-world achievements in the practice of operations research and the management sciences. In 2012, Dr. Cox was inducted into the [National Academy of Engineering \(NAE\)](#), "For applications of operations research and risk analysis to significant national problems." He is a member of the National Academies' Board on Mathematical Sciences and their Applications (BMSA) and a member of the National Academies Standing Committee on the Use of Public Health Data in FSIS Food Safety Programs.

Dr. Cox holds a Ph.D. in Risk Analysis (1986) and an S.M. in Operations Research (1985), both from M.I.T.; an AB from Harvard University (1978); and is a graduate of the Stanford Executive Program (1993). He is Honorary Full Professor of Mathematics at the University of Colorado, Denver, where he has lectured on risk analysis, biomathematics, health risk modeling, computational statistics and causality; is on the Faculties of the Center for Computational Mathematics and the Center for Computational Biology; and is Clinical Professor of Biostatistics and Informatics at the University of Colorado Health Sciences Center. He has taught a variety of graduate and professional courses, including Game Theory for the Department of Mathematics and Decision Analysis for the Business School of the University of Colorado at Denver.

Dr. Cox is [Editor-in-Chief of Risk Analysis: An International Journal](#), is Area Editor for Real World Applications for the *Journal of Heuristics*, and is on the Editorial Board of the *International Journal of Operations Research and Information Systems*. He is an Edelman Laureate of INFORMS, a member of the American Statistical Association (ASA), and a Fellow of the Society for Risk Analysis (SRA). In 2007, he won the Society of Toxicology's Outstanding Published Paper in Risk Assessment Award and the Society for Risk Analysis Outstanding Risk Practitioner Award. In 2008, his solution to a challenge on "Statistical Methods to Predict Clinical Response" won an InnoCentive Award. His work won the Society for Risk Analysis (SRA) Best Paper Awards in both 2002 and 2003 for modeling uncertain public health risks and benefits of animal antibiotics; and in 2011 for mathematical modeling of chronic obstructive pulmonary disease (COPD).

Dr. Cox has taught many graduate and professional courses in risk analysis, decision analysis, and advanced analytics. He has authored and co-authored about 200 journal articles and book chapters on these fields. His most recent books are *Improving Risk Analysis* (Springer, 2013), *Risk Analysis of Complex and Uncertain Systems* (Springer, 2009) and the *Wiley Encyclopedia of Operations Research and Management Science* (Wiley, 2011), which Dr. Cox co-edited. He has over a dozen U.S. patents on applications of artificial intelligence, signal processing, statistics and operations research in telecommunications. His current research interests include computational statistical methods for causal inference in risk analysis, data-mining, and advanced analytics for enterprise risk management, insurance, and public policy applications.