

4th International Conference and Exhibition on **Biometrics & Biostatistics**

November 16-18, 2015 San Antonio, USA

Biostatistics can help to comprehend the shortage, illegal trade, and unmet demand of organ or tissue transplant

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Public, in general, and healthcare professionals, in particular, are confused from unclear and conflicting information in the organ transplant related data. To sort out and clarify such confusions, a statistical methodology is constructed and demonstrated in this article. The gap between the number of organ donors and the number waiting for organ transplant is named shortage. The gap between the number of organ donors and the number of recipients is named illegal organ trade level. The gap between the number of organ recipients and the number waiting for organ transplant is named unmet organ demand. Expressions are derived, based on a statistical methodology, to compute the confidence interval for these true unknown gaps. A few recommendations are compiled and stated in the end to close such gaps for the sake of those waiting for organ transplant to have a quality life.

Biography

Ram Shanmugam is the Editor-in-Chief for the journals: *Epidemiology & Community Medicine*, *Advances in Life Sciences and Health*, and *Global Journal of Research and Review*. He is the Associate Editor of the *International Journal of Research in Medical Sciences*. He is the Book-Review Editor of the *Journal of Statistical Computation and Simulation*. He directed *Statistics Consulting Center* in the Mississippi State University. In 2015, he has published a textbook with the title "*Statistics for Engineers and Scientists*". He served the Argonne National Lab., University of Colorado, University of South Alabama and the Indian Statistical Institute. He has published 125 research articles and is a Fellow of the International Statistical Institute. Currently, he is a Professor in the School of Health Administration, Texas State University. He is a recipient of several research awards from the Texas State University.

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