

Title: Socioeconomic Impact of Regenerative Medicine in Medical Insurance System and Industrial Promotion

Dr. Tomoyuki Takura* and Nozomi EbataProfessorOsaka University Graduate School of MedicineJapan

Abstract

Social resources are generally invested in items with value for humans and for which the level of reward is likely to increase. Medicine is a field involved in life and health and has irreversible features, therefore, more or less, investment of public capital and evaluation or administration by a third party is required. Evaluation of the socioeconomic value of medical intervention and establishment of the resources necessary for clinical practice are important for the development promotion in regenerative medicine. We tried the analysis of the impact of the medical budget and the growth of the investment market by applying the cost-effectiveness approach and the DCF method (Black-Scholes option pricing model) to the healthcare economics of the regenerative medicine in 15 years. As a result, it is expected that the regenerative medicine reduces the budget liability of 250 billion (JPY/year) in Japan if the same performance as a transplantation can be achieved. In addition, the expected business value (capital value - cumulate investment) was estimated to be 0.42 billion (USD/year) in the world as for the regenerative medicine 15 years later. Regenerative medicine is sure to have huge socioeconomic value in potential, and it will be presented and discussed.

Biography

Dr. Tomoyuki Takura, Ph.D.-medicine, now is a Professor of Health Economics and Industrial Policy Department, Committee member of hospital management planning office (Osaka University hospital), Special examination committee of national insurance (Ministry of Health, Labour and Welfare), Committee of health care industrial platform (Ministry of Economy, Trade and Industry), Member of councilor (Japanese Association of Cardiac Rehabilitation). He got his Engineering Master's degree (MEng.) at Hokkaido University graduate school of engineering, Specialist in healthcare economics and technology assessment, Medicine Doctor's degree (Ph.D.) at Tokyo Women's Medical University graduate school of Medicine. And Dr. Tomoyuki Takura got the Student Entrepreneur Championship Award of Tokyo Metro Government in 2003.