

#

B&S

Judging Dept.

Wenli Luo

Student

B&S

2

Larry Lessner

Dept or Program Years in program

Mentor

Identifying Risk Factors and Accessing Nursing Home Effect on the Incidence of Decline in ADL in New York State

Author (s)

Wenli Luo

The quality of nursing home service is a very important issue now. There are many quality indicators defined by CMS to evaluate nursing home service. The Incidence of Decline in ADL (Activity of Daily Life) is one of the important quality indicators. ADL is an important measure of quality of life for seniors. By analyzing the third quarter MDS2.0 data in 2003 of New York State, the objective of this project firstly focuses on identifying risk factors of the incidence of decline in ADL for seniors. And it simultaneously accesses the effects produced by different kind of nursing homes in New York on the incidence rate of ADL. Since the dependent variable follows binominal distribution and each nursing home is considered to have some similar and relevant effect on the residences, this project makes use of Generalized Linear Mixed Model to estimate the parameters, in which both fixed effects and random effects are under consideration. The results show that the influential risk factors for late loss in ADL include: age, psychological problems, memory problems, fell recently, depression, nutrition problems, infection, musculoskeletal disease and other chronic diseases. Residences with Medicare or Medicaid have lower incidence rate in ADL than residences in other payment programs. The nursing home rehabilitation and restoration care can reduce the incidence of decline of ADL. Nursing homes with fewer beds and nursing homes for profit have lower incidence rate of ADL. The random effect is significant in some New York nursing homes.

