

Part II

Applications

The first seven chapters introduced various models of efficiency and effectiveness that can be solved using DEA. The next seven chapters are devoted to applications of DEA.

Chapter 8 develops a robust hospital DEA model based on these previous studies, while Chap. 9 provides an in-depth look to DEA based physician evaluations. Chapter 10 specifies the DEA based nursing home models. Chapter 11, introduces a few studies on health maintenance organizations (HMOs) and DEA models associated with them. Chapter 12 explores home health, and introduces DEA models for home health agencies.

Chapter 13 examines other health care organizations including dialysis centers, community mental health centers, community based youth services, organ procurement organizations, aging agencies, and dental providers. Chapter 14 provides an insight to other DEA models designed to evaluate health care provider performance for specific treatments including stroke, mechanical ventilation, and perioperative services. This chapter also discusses DEA models for physicians at hospital settings, hospital mergers, hospital closures, hospital labor markets, hospital services in local markets, etc.