The Use of Quality Information: A Comparison of Child Care and Health Care Provider Markets

Caroline Carlin, Department of Applied Economics
University of Minnesota

July 31, 2008



Market Failure Parallels – Health Care and Child Care When Will Consumers Use Quality Information? The Buyers Health Care Action Group Study Minnesota's ParentAware Quality Rating System

Perfect competition

Two necessary (but not sufficient) conditions for a competitive market include

Perfect competition

Two necessary (but not sufficient) conditions for a competitive market include

- Consumers bear all the costs and benefit of their choice
 - Counterexample: vaccines and public health

Perfect competition

Two necessary (but not sufficient) conditions for a competitive market include

- Consumers bear all the costs and benefit of their choice
 - Counterexample: vaccines and public health
- Perfect information about the available products
 - Counterexample: used cars

Perfect competition

Two necessary (but not sufficient) conditions for a competitive market include

- Consumers bear all the costs and benefit of their choice
 - Counterexample: vaccines and public health
- Perfect information about the available products
 - Counterexample: used cars

Child care provider selection and health care provider selection are two arenas rife with market failure.

The parallels are not strong in the area of spreading of costs

- Health care
 - Variability in cost of health care providers is muted or eliminated by health insurance
 - In Minnesota, a patient may have the same copayment for the Mayo Clinic and a limited-service county hospital

The parallels are not strong in the area of spreading of costs

- Health care
 - Variability in cost of health care providers is muted or eliminated by health insurance
 - In Minnesota, a patient may have the same copayment for the Mayo Clinic and a limited-service county hospital
- Child care
 - Much more transparency of costs in child care
 - Child care centers are rarely bundled for pricing

Market Failure Parallels – Health Care and Child Care
When Will Consumers Use Quality Information?
The Buyers Health Care Action Group Study
Minnesota's ParentAware Quality Rating System

Parallels between health and child care providers

However, both markets display significant lack of information

Both settings are high-stakes decisions

However, both markets display significant lack of information

Both settings are high-stakes decisions ... it's not like buying a flavorless bottle of ketchup.

However, both markets display significant lack of information

- Both settings are high-stakes decisions ... it's not like buying a flavorless bottle of ketchup.
- Health care and child care are both "credence goods." That is, you can't just look at it, you must experience the good to assess quality.

However, both markets display significant lack of information

- Both settings are high-stakes decisions ... it's not like buying a flavorless bottle of ketchup.
- Health care and child care are both "credence goods." That is, you can't just look at it, you must experience the good to assess quality.
- This is particularly troublesome for low-frequency, high-risk health care procedures like open heart surgery. Child care and primary health care have more repeat experiences.

However, both markets display significant lack of information

- Both settings are high-stakes decisions ... it's not like buying a flavorless bottle of ketchup.
- Health care and child care are both "credence goods." That is, you can't just look at it, you must experience the good to assess quality.
- This is particularly troublesome for low-frequency, high-risk health care procedures like open heart surgery. Child care and primary health care have more repeat experiences.
- You may not have confidence in your ability to judge quality.
 - What does the in-home provider do once you leave?
 - Is my ongoing pain due to the nature of my disability or due to poor care?

A consumer will use quality information if the expected cost of using the information is less then the expected benefit received.

A consumer will use quality information if the expected cost of using the information is less then the expected benefit received.

Expected benefits are affected by a variety of factors

- Consumer's confidence about current knowledge
- Satisfaction with current provider
- Trust in the source of information
- Presence of an experience or price shock, causing a belief you can do better
 - Price suddenly increased
 - Bad experience with current provider



Expected costs are comprised of a variety of potential costs

- Time cost
 - Searching for information
 - Gaining access to the medium (e.g., internet)
 - Building information networks (e.g., friends)

Expected costs are comprised of a variety of potential costs

- Time cost
 - Searching for information
 - Gaining access to the medium (e.g., internet)
 - Building information networks (e.g., friends)
- Financial cost
 - Fees to access info (e.g., consumer reports)
 - Cost to access communication medium

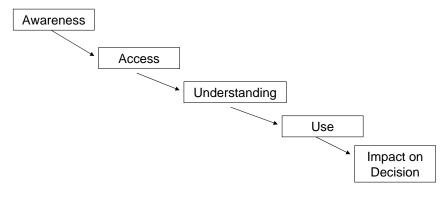
Expected costs are comprised of a variety of potential costs

- Time cost
 - Searching for information
 - Gaining access to the medium (e.g., internet)
 - Building information networks (e.g., friends)
- Financial cost
 - Fees to access info (e.g., consumer reports)
 - Cost to access communication medium
- Cognitive cost
 - Language?
 - Concise or information overload?
 - Presented in a way relevant to decision?



Pathway to use

These costs and benefits are analyzed along the expected pathway to use of information



The Buyers' Health Care Action Group (BHCAG) is a coalition of 30 employers that used their purchasing power to reform the health care market in the Twin Cities during the 1990s.

The Buyers' Health Care Action Group (BHCAG) is a coalition of 30 employers that used their purchasing power to reform the health care market in the Twin Cities during the 1990s.

Their goal was to correct the market failures faced by their employees when making health care decisions

- Spreading of costs
- Lack of information

The coalition prompted the provider community to come together in a new way.

The coalition prompted the provider community to come together in a new way.

Asked the provider community to form care systems and bid on the provision of care to the BHCAG employees

The coalition prompted the provider community to come together in a new way.

- Asked the provider community to form care systems and bid on the provision of care to the BHCAG employees
- General practitioners were to be affiliated with only one care system
- Specialists and hospitals may be affiliated with multiple care systems.

The coalition prompted the provider community to come together in a new way.

- Asked the provider community to form care systems and bid on the provision of care to the BHCAG employees
- General practitioners were to be affiliated with only one care system
- Specialists and hospitals may be affiliated with multiple care systems.
- The resulting 17 care systems covered 95% of the area GPs

Revealing costs

- Care systems were grouped into three cost tiers, based on their bid, to create pricing distinctions
- Employees chose a care system at open enrollment, which determined their payroll deduction for coverage

Revealing costs

- Care systems were grouped into three cost tiers, based on their bid, to create pricing distinctions
- Employees chose a care system at open enrollment, which determined their payroll deduction for coverage

Generating information

- BHCAG conducted consumer satisfaction surveys among their employees to assess quality by care system
- Clinical quality measures were in their infancy at the time
- Studies have shown significant correlation between consumer satisfaction and clinical quality
- Survey information made available at open enrollment



University of Minnesota researchers surveyed a sample of BHCAG employees enrolled in this tiered medical plan.

University of Minnesota researchers surveyed a sample of BHCAG employees enrolled in this tiered medical plan.

- Researchers included Roger Feldman, Jon Christianson, Jean Abraham and Caroline Carlin
- Study funded by the Robert Wood Johnson Foundation

University of Minnesota researchers surveyed a sample of BHCAG employees enrolled in this tiered medical plan.

- Researchers included Roger Feldman, Jon Christianson, Jean Abraham and Caroline Carlin
- Study funded by the Robert Wood Johnson Foundation

We built a model to assess the employees' awareness of the quality information, and its impact on their decision whether to switch care systems

After estimating the model, we found awareness of the quality information was impacted by

- Method of distribution
 - Booklet with enrollment information, booklet upon request, or web only

After estimating the model, we found awareness of the quality information was impacted by

- Method of distribution
 - Booklet with enrollment information, booklet upon request, or web only
- Education level of consumer
 - Awareness increases with education level

After estimating the model, we found awareness of the quality information was impacted by

- Method of distribution
 - Booklet with enrollment information, booklet upon request, or web only
- Education level of consumer
 - Awareness increases with education level
- Gender of consumer
 - Females more aware than males

Decision to switch care systems impacted by

- Significant premium increase (more likely)
- Provider affiliation (less likely)
- Loss of personal provider (more likely)

Decision to switch care systems impacted by

- Significant premium increase (more likely)
- Provider affiliation (less likely)
- Loss of personal provider (more likely)

Awareness of quality information may have impacted the decision to switch plans, but it was not statistically significant.

Decision to switch care systems impacted by

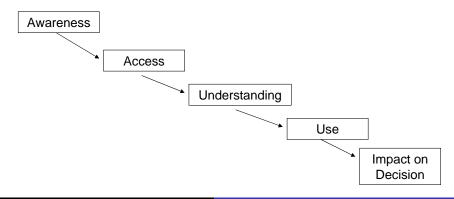
- Significant premium increase (more likely)
- Provider affiliation (less likely)
- Loss of personal provider (more likely)

Awareness of quality information may have impacted the decision to switch plans, but it was not statistically significant.

- Info may have confirmed current beliefs
- Could be aware of information, but the cost of use still exceeds the expected benefits

Learning from the BHCAG study

Our study was designed to assess only the first and last points along the pathway to use. In retrospect, we would more explicitly explore each step along this pathway.



ParentAware rating system

The Minnesota Early Learning Foundation (MELF) is partnering with the State of Minnesota to support a pilot child care quality rating system (QRS).

ParentAware rating system

The Minnesota Early Learning Foundation (MELF) is partnering with the State of Minnesota to support a pilot child care quality rating system (QRS).

- A voluntary rating system
- Open to center-based and licensed family child care homes
- Rating based on document review and on-site observation
- Detailed rating information is summarized in a 4-star overall rating
- Nationally accredited programs (e.g., through NAEYC or Head Start) automatically receive a 4-star rating

Child Trends study

Child Trends, in cooperation with researchers at the University of Minnesota, is exploring how low-income families select child care.

Child Trends study

Child Trends, in cooperation with researchers at the University of Minnesota, is exploring how low-income families select child care.

In particular, how does the ParentAware QRS affect the decision-making process, and the resulting child and family outcomes?

Child Trends study

Child Trends, in cooperation with researchers at the University of Minnesota, is exploring how low-income families select child care.

In particular, how does the ParentAware QRS affect the decision-making process, and the resulting child and family outcomes?

This project is a Child Care Policy Research Grant funded by the Office of Planning, Research, and Evaluation, U.S. Department of Health and Human Services with additional support from the Minnesota Early Learning Foundation

Conceptual Model

We offer our conceptual model as input into our conversation today.

