

RESEARCH ARTICLE

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Body mass index and lifetime healthcare utilization



Christina Hansen Edwards^{1*}, Eline Aas² and Jonas Minet Kinge^{1,2}

Abstract

Background: Overweight and obesity is a major global public health challenge, and understanding the implications for healthcare systems is essential for policy planning. Past studies have typically found positive associations between obesity and healthcare utilization, but these studies have not taken into consideration that obesity is also associated with early mortality. We examined associations between body mass index (BMI, reported as kg/m²) and healthcare utilization with and without taking BMI-specific survival into consideration.

Methods: We used nationally representative data on 33 882 adults collected between 2002 and 2015. We computed BMI- and age-specific primary and secondary care utilization and multiplied the estimated values with gender-, age-, and BMI-specific probabilities of surviving to each age. Then, we summed the average BMI-specific utilization between 18 and 85 years.

Results: During a survival-adjusted lifetime, males with normal weight (BMI: 18.5–24.9) had, on average, 167 primary care, and 77 secondary care contacts. In comparison, males with overweight (BMI: 25.0–29.9), category I obesity (BMI: 30.0–34.9), and category II/III obesity (BMI ≥35.0) had 11%, 41%, and 102% more primary care, and 14%, 29%, and 78% more secondary care contacts, respectively. Females with normal weight had, on average, 210 primary care contacts and 91 secondary care contacts. Females with overweight, category I obesity, and category II/III obesity had 20%, 34%, and 81% more primary care contacts, and 26%, 16%, and 16% more secondary care contacts, respectively.

Conclusion: The positive association between BMI and healthcare utilization was reduced, but not offset, when BMI-specific survival was taken into consideration. Our findings underpin previous research and suggest that interventions to offset the increasing prevalence of overweight, and especially obesity, are warranted.

Keywords: Body mass index, Obesity, Health services, Mortality, Public Policy

Background

Compared with individuals with normal weight, persons with obesity have a greater likelihood of acquiring a range of serious diseases: type-2 diabetes, cardiovascular disease, gallbladder disease, osteoarthritis, hypertension, kidney disease, dyslipidaemia and several cancers [1–3]. Hence, increased healthcare utilization may be needed to manage these conditions. However, in the context of obesity, early mortality may counterbalance increased healthcare utilization due to morbidity. Existing studies that have investigated associations between obesity and healthcare utilization have been done from a non-lifetime perspective, without consideration of early

mortality [4]. As a result, it remains unclear whether healthcare utilization over a cumulative lifetime is higher among persons with obesity, compared with persons with normal weight.

Non-lifetime studies have found associations between obesity and physician encounters [5–11], hospitalizations [7, 8, 12], and hospital outpatient visits [6, 7, 12], and specialist visits [9]. A few studies have not found significant associations between obesity and hospitalization [5, 6, 11] or find differing results depending on age [13], or gender [10]. These previous studies vary in terms of methodology, the number of obesity categories assessed, types of healthcare providers included, and the organization of the healthcare system under study. In addition, several of these studies have focused on a specific sub-population

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Table of Contents Holt Lifetime Health Chapter Review Answers

1. Understanding the eBook Holt Lifetime Health Chapter Review Answers
 - The Rise of Digital Reading Holt Lifetime Health Chapter Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Lifetime Health Chapter Review Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Lifetime Health Chapter Review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Lifetime Health Chapter Review Answers
 - Personalized Recommendations
 - Holt Lifetime Health Chapter Review Answers User Reviews and Ratings
 - Holt Lifetime Health Chapter Review Answers and Bestseller Lists
5. Accessing Holt Lifetime Health Chapter Review Answers Free and Paid eBooks

- Holt Lifetime Health Chapter Review Answers Public Domain eBooks
 - Holt Lifetime Health Chapter Review Answers eBook Subscription Services
 - Holt Lifetime Health Chapter Review Answers Budget-Friendly Options
6. Navigating Holt Lifetime Health Chapter Review Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Lifetime Health Chapter Review Answers Compatibility with Devices
 - Holt Lifetime Health Chapter Review Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Lifetime Health Chapter Review Answers
 - Highlighting and Note-Taking Holt Lifetime Health Chapter Review Answers
 - Interactive Elements Holt Lifetime Health Chapter Review Answers
 8. Staying Engaged with Holt Lifetime Health Chapter Review Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Lifetime Health Chapter Review Answers
 9. Balancing eBooks and Physical Books Holt Lifetime Health Chapter Review Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Lifetime Health Chapter Review Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Holt Lifetime Health Chapter Review Answers
 - Setting Reading Goals Holt Lifetime Health Chapter Review Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Holt Lifetime Health Chapter Review Answers
 - Fact-Checking eBook Content of Holt Lifetime Health Chapter Review Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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