

# Group and Health Advanced Exam Spring/Fall 2018

## Important Exam Information:

Exam Registration	Candidates may register online or with an application.
Order Study Notes	Study notes are part of the required syllabus and are not available electronically but may be purchased through the online store.
Introductory Study Note	The Introductory Study Note has a complete listing of all study notes as well as errata and other important information.
<u>Case Study</u>	A copy of the case study will be provided with the examinations. Candidates will not be allowed to bring their copy of the case study into the examination room.
Past Exams	Past Exams from 2000 - present are available on the SOA website.
<u>Updates</u>	Candidates should be sure to check the Updates page on the exam home page periodically for additional corrections or notices.

## 1. Topic: Provider Reimbursement

#### Learning Objectives

The candidate will understand how to evaluate the effectiveness of different provider reimbursement methods from both a cost and quality view point.

## Learning Outcomes

The Candidate will be able to:

- a) Calculate provider payments under various reimbursement methods
- b) Evaluate standard contracting methods from a cost-effective & quality perspective
- c) Understand contracts between providers and insurers
- d) Understand accountable care organizations and medical patient home models and their impact on quality, utilization and costs
- e) Evaluate the effectiveness of various methods of controlling costs and providing quality care-within pharmacy benefits

- Essentials of Managed Health Care, Kongstvedt, Peter R., 6<sup>th</sup> Edition, 2013
  - Ch. 4: The Provider Network
  - o Ch. 10: Data Analysis and Provider Profiling in Health Plans
  - o Ch. 11: Prescription Drug Benefits in Managed Care
  - Ch. 12: Introduction to Managed Behavioral Health Care Organizations
- GHA-102-13: Evaluating Bundled Payment Contracting
- GHA-110-15: Commonwealth Fund Paper The Final Rule for the Medicare Shared Savings Program
- GHA-119-18: Physician Remuneration Options (pp. 3-11)
- GHA-120-18: Avoiding Unintended Consequences in ACO Payment Model
- <u>Provider Payment Arrangements, Provider Risk, and Their Relationship With Cost of Healthcare</u> (excluding Appendices)

## 2. Topic: Healthcare Interventions

## Learning Objectives

The candidate will understand how to evaluate healthcare intervention programs.

## Learning Outcomes

The Candidate will be able to:

- a) Describe, compare and evaluate programs
- b) Estimate savings, utilization rate changes and return on investment
- c) Describe the considerations in the design, implementation and evaluation of a program
- d) Describe value chain analysis as it applies to the planning and management of a program
- e) Apply the actuarially adjusted historical control methodology
- f) Calculate chronic and non-chronic trends in a manner that reflects patient risk
- g) Apply methodologies to reduce random fluctuation and maintain validity for program effectiveness studies

- Managing and Evaluating Healthcare Intervention Programs, Duncan, Ian G., 2<sup>nd</sup> Edition, 2014
  - Ch. 1: Introduction (background only)
  - Ch. 2: Clinical Background (background only)
  - o Ch. 3: Care Management Programs and Interventions
  - o Ch. 4: Actuarial Issues in Care Management Evaluations
  - o Ch. 6: The Use of the Value Chain in Care Management Program Planning
  - Ch. 8: Understanding the Economics of Care Management Programs
  - Ch. 9: Applying the Economic Model: the Example of Opportunity Analysis
  - o Ch. 10: Measuring Care Management Savings Outcomes
  - Ch. 11: The Use of Propensity Scoring in Program Evaluation
  - Ch. 12: An Actuarial Method for Evaluating Care Management Outcomes (excluding Appendices 12.2 and 12.3)
  - Ch. 13: Understanding Patient Risk and Its Impact on Chronic and Non-Chronic Member Trends
  - Ch. 14: Random Fluctuations and Validity in Measuring Disease Management Effectiveness for Small Populations (excluding Appendix)
- GHA-112-16: Commonwealth Fund the Road to Accountable Care

• GHA-113-16: Population Health Alliance and HERO– Program Management and Evaluation Guide, Ch. 1 and 2

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## 3. Topic: Reserving

## **Learning Objectives**

The candidate will understand and apply valuation principles for insurance contracts.

## **Learning Outcomes**

The Candidate will be able to:

- a) Describe the types of claim reserves (e.g., due and unpaid, ICOS, IBNR, LAE, PVANYD)
- b) Explain the limitations and biases of the traditional valuation methods:
- c) Calculate appropriate claim reserves given data
- d) Reflect environmental factors in reserve calculations (trend, seasonality, claims processing changes, etc.)
- e) Evaluate data resources and appropriateness for calculating reserves
- f) Describe, calculate and evaluate non-claim reserves and explain when each is required
- g) Apply applicable standards of practice related to reserving

- Group Insurance, Skwire, Daniel D., 7<sup>th</sup> Edition, 2016
  - o Ch. 37: Claim Reserves for Short-Term Benefits
  - o Ch. 38: Claim Reserves for Long-Term Benefits
- Individual Health Insurance, Bluhm, William and Leida, Hans, 2<sup>nd</sup> Edition, 2015
  - o Ch. 6: Reserves and Liabilities
- GHA-103-16: Health Reserves (Lloyd)
- GHA-114-16: Canadian Standards of Practice, sections 2130 and 2300 (excluding 2320.35 to 2320.39, 2340, 2350.19 to 2350.30, 2350.40 to 2350.50 and 2360), March 2015
- <u>CIA Educational Note Valuation of Group Life and Health Policy Liabilities</u>, Sections 6-14
- AAA Premium Deficiency Reserves Discussion Reports
- Health Section News, 10/2004, Read, Write, Think
- ASOP 5: Incurred Health and Disability Claims (excluding Appendix)
- ASOP 23: Data Quality (excluding Appendix)
- ASOP 28: Statements of Actuarial Opinion Regarding Health Insurance Liabilities and Assets (excluding Appendix)
- <u>ASOP 41: Actuarial Communications</u> (excluding Appendix)

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- ASOP 42: Determining Health and Disability Liabilities Other Than Liabilities for Incurred Claims (excluding Appendix)
- Financial Reporting Implications Under the Affordable Care Act, Section IV
- <u>Claim Reserve Model–How Actuaries Rely Upon the Claim Data They Receive, Long Term Care News,</u> September 2008

## 4. Topic: Underwriting

## Learning Objectives

The candidate will understand how to apply principles of pricing, risk assessment and funding to an underwriting situation.

## Learning Outcomes

The Candidate will be able to:

- a) Understand the risks and opportunities associated with a given coverage, eligibility requirement or funding mechanism
- b) Understand, evaluate and apply various risk adjustment mechanisms
- c) Recommend strategies for minimizing or properly pricing for risks
- d) Describe and apply approaches to claim credibility and pooling
- e) Apply applicable Actuarial Standards of Practice

- Group Insurance, Skwire, Daniel D., 7<sup>th</sup> Edition, 2016
  - o Ch. 21: Estimating Medical Claim Costs (pp. 356-361)
  - o Ch. 27: Experience Rating and Funding Methods
  - o Ch. 30: Group Insurance Underwriting
  - Ch. 31: Managing Selection in a Multiple-Choice Environment
  - Ch. 33: Health Risk Adjustment
- Individual Health Insurance, Bluhm, William and Leida, Hans, 2<sup>nd</sup> Edition, 2015
  - Ch. 4: Managing Antiselection (pp. 109-148)
- GHA-104-15: Actuarial Aspects of Employer Stop Loss
- GHA-118-17: Issues to Consider in Self-Funding Long-Term Disability Insurance
- GHA-121-18: Assuris for Group Insurance in Canada
- ASOP 45: The Use of Health Status Based Risk Adjustment Methodologies
- Level Funding: An Alternative to ACA for Small Groups, Health Watch, May 2016
- Issues In Applying Credibility to Group Long-Term Disability Insurance (pp. 5-15)
- <u>A Practical Approach to Assigning Credibility for Group Medical Insurance Pricing</u>