

Group and Health Specialty Exam

Fall 2017/Spring 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.

Case Study A case study will not be used for this exam.

Past Exams Past Exams from 2000-present are available on SOA website.

Updates Candidates should be sure to check the Updates page on the exam home page

periodically for additional corrections or notices.

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Learning Objectives

1. Understand pricing, risk management, and reserving for individual long duration health contracts such as Disability Income, Long Term Care, Critical Illness, and Medicare Supplement

Learning Outcomes

The candidate will be able to:

- a) Identify differences between short-duration contracts and long-duration contracts, from the standpoints of pricing and reserving
- b) Understand and utilize experience studies in setting assumptions for long-duration contracts
- c) Understand reserve calculations / adequacy for long duration-contracts
- d) Apply applicable Actuarial Standards of Practice

Syllabus Resources

- Individual Health Insurance, Leida, 2nd Edition, 2015
 - o Ch. 8 Forecasting and Modeling
 - o Ch. 11 Managing the Business, Sections 11.4-11.6
- GHS-101-14: Pricing Medicare Supplement Benefits, Sections IV & V
- GHS-102-14: Pricing Critical Illness Insurance in Canada
- GHS-103-14: Product Design of Critical Illness Insurance in Canada
- GHS-114-14: Chapters 16, 18 and 19 of Disability Income Insurance: the Unique Risk, Fifth Edition, Soule
- <u>Claim Reserve Model-How Actuaries Rely Upon the Claim Data They Receive.</u> Long Term Care News, September 2008
- <u>Combo Long-term Care Products: A Solution to Address Market Needs</u>, The Actuary, October / November 2013
- Quantification of the Natural Hedge Characteristics of Combination Life or Annuity Products Linked to Long-Term Care Insurance, Milliman, March 2012 (pages 9-26)
- ASOP 7, Analysis of Life, Health or Property/Casualty Insurer Cash Flows (excluding appendix)
- ASOP 22, Statement of Opinion Based on Asset Adequacy Analysis by Actuaries for Life or Health Insurers (excluding appendix)
- ASOP 18, Long-Term Care Insurance (excluding appendix)
- ASOP 23, Data Quality (excl appendix)
- ASOP 41, Actuarial Communications (excl appendix)
- Report on the Proposed 2016 Cancer Claim Cost Valuation Tables

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Learning Objectives

2. Evaluate the risk associated with health insurance and plan sponsorship and recommend strategies for mitigating the risk

Learning Outcomes

The candidate will be able to:

- a) Evaluate an enterprise risk management (ERM) system, including
 - Describing the components on an ERM program
 - Discussing ERM risks and risks specific to the health insurance industry
 - Describing and recommending methods used to analyze, evaluate and mitigate the risks
- b) Complete a capital needs assessment
 - Understand capital needs for a given insurer
 - Determine actions needed to address issues identified by assessment
 - Describe components of an Economic Capital model
- c) Integrate reinsurance arrangements within an overall risk management strategy of company plan / sponsor
- d) Understand how an Own Risk Solvency Assessment (ORSA) complements and differs from traditional risk assessment
- e) Apply applicable Actuarial Standards of Practice

Syllabus Resources

- Group Insurance, Skwire, 7th Edition, 2016
 - o Ch. 39, Risk-Based Capital Formulas
 - o Ch. 42, Enterprise Risk Management for Group Health Insurers
- Financial Enterprise Risk Management, Sweeting, 2011
 - o Chapter 1, An introduction to enterprise risk management
 - o Chapter 7, Definitions of risk
 - o Chapter 8, Risk identification
 - o Chapter 18, Economic capital
- GHS-115-15: Health Enterprise Risk Management Study Note-Introduction
- GHS-116-15: NAIC Own Risk and Solvency Assessment (ORSA) Guidance Manual, NAIC, July 2014 (excluding appendix)
- GHS-117-16: Life & Health and Annuity Reinsurance, 4th Edition, Chapter 18
- A Health Insurance Insolvency Case Study, Health Section News, No 38, 2000, pp.1 & 20-25
- Taking a Closer Look at Enterprise Risk Management, Clark, Kara. Health Section News. August. 2005
- ASOP 46: Risk Evaluation in Enterprise Risk Management, ASB Final, through p. 14 (excluding appendix)
- Understanding ORSA Before Implementing It, Risk Management August 2012
- Considerations for Surplus Determination under ACA, HealthWatch, May 2014

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Learning Objectives

3. Understand and prepare an actuarial appraisal

Learning Outcomes

The candidate will be able to:

- a) Differentiate the components of an actuarial appraisal versus an embedded value
- b) Describe an approach for preparing an actuarial appraisal
- c) Describe risks associated with interpreting an actuarial appraisal and an embedded value
- d) Apply applicable Actuarial Standards of Practice

Syllabus Resources

- GHS-109-14: The Actuary and Health Insurance Mergers and Acquisitions
- GHS-110-14: Chapter 4 of *Mergers and Acquisitions*, Toole and Herget (sections 4.1-4.8 only)
- GHS-111-14: Components of Insurance Firm Value and the Present Value of Liabilities
- GHS-112-14: Simple Embedded Value Example
- GHS-113-14: Embedded Value of Canadian Group Insurance
- SOA Embedded Value Calculation for a Life Insurance Company
- ASOP 19, Appraisals of Casualty, Health and Life Insurance Businesses (excluding appendices)

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Learning Objectives	
4. The candidate will understand a	nd apply risk adjustment in the context of predictive modeling
Learning Outcomes	
The candidate will be able to:	
a) Describe and compare risk adjustments based on commonly used clinical data and grouping methods	
b) Apply risk adjustment to underwriting, pricing, claims and care management situations	
c) Describe typical predictive modeling techniques	
	teness of each technique
	arial Standards of Practice
 Syllabus Resources Healthcare Risk Adjustment and Predictive Modeling, Duncan 	
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o Ch 2, Models for Predic	
o Ch 4, Clinical Identifica	ation Algorithms
o Ch 5, Grouper Models	
o Ch 6, Development and	Construction of DRGs, DCGs, and ETGs
o Ch 7, Introduction to Me	odeling (excluding appendix)
o Ch 13, Medicaid Risk Ad	ljustment
o Ch 14, Risk Adjustment	in Medicare
	sk Adjustment Model for Individual and Small Group Markets under the excluding Ex 1,2,5,6,8,9 & text describing those exhibits)
GHS-120-17: HHS-Operated Ris Model Improvements (p.35-69 ex	sk Adjustment Methodology Meeting Discussion Paper – Ch 4 Risk Adjustment xcluding sec 4.2.4)
ASOP 12, Risk Classification (ex	xcluding appendices)