GH – Specialty Exam

Spring 2020/Fall 2020

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.
Syllabus Readings	Readings listed in this syllabus may include study notes, online readings and textbooks. Candidates are responsible for all readings in their entirety, including sections such as Appendices, unless it is stated otherwise in the syllabus.
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 provided for this examination.
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.

Recognized by the Canadian Institute of Actuaries

1. **Topic: Claims and Disease Management**
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) Apply the actuarially adjusted historical control methodology   d) Calculate chronic and non-chronic trends in a manner that reflects patient risk
Resources

• *Managing and Evaluating Healthcare Intervention Programs,* Duncan, Ian G., 2nd Edition, 2014
     o Ch. 3: Care Management Programs and Interventions
     o Ch. 8: Understanding the Economics of Care Management Programs
     o Ch. 9: Applying the Economic Model: The Example of Opportunity Analysis
     o Ch. 11: The Use of Propensity Scoring in Program Evaluation
     o Ch. 12: An Actuarial Method for Evaluating Care Management Outcomes (excluding Appendix 12.2-12.3)
     o Ch. 13: Understanding Patient Risk and Its Impact on Chronic and Non-Chronic Member Trends
 • GHS-125-19: Program Management and Evaluation Guide: Core Metrics for Employee Health Management, Ch. 2

2. **Topic: ERM**

Learning Objectives

The candidate will understand how to evaluate health insurance organization risk and mitigation strategies.

Learning Outcomes

The Candidate will be able to:

a) Evaluate an enterprise risk management (ERM) system

b) Complete a capital needs assessment

c) Integrate reinsurance arrangements within an overall risk management strategy

d) Understand how Own Risk Solvency Assessment (ORSA) compares to traditional risk assessment

e) Apply applicable Actuarial Standards of Practice

Resources

- *Group Insurance*, Skwire, 7th Edition, 2016
    - o Ch. 39: Risk-Based Capital Formulas
- *Financial Enterprise Risk Management*, 2nd Edition, Sweeting, 2011
    - o Ch. 7: Definitions of Risk
    - o Ch. 8: Risk Identification
    - o Ch. 18: Economic Capital
- GHS-116-19: NAIC Own Risk and Solvency Assessment (ORSA) Guidance Manual, NAIC, Dec 2017 (excluding Appendix)
- GHS-117-16: Ch. 18 of *Life & Health and Annuity Reinsurance*, 4th Edition
- GHS-121-18: Enterprise Risk Management, Ratings Direct
- GHS-122-18: Why are Many Coops Failing
- GHS-123-18: Enterprise Risk Management: Parts One, Two and Three
- GHS-127-19: The Risks of Pricing New Insurance Products: The Case of Long-Term Care
- GHS-128-19: RBC Calculation Examples
- ASOP 23: Data Quality (excluding Appendices)
- ASOP 41: Actuarial Communications (excluding Appendices)
- ASOP 46: Risk Evaluation in Enterprise Risk Management, pp. 1-14 (excluding Appendices)
- ASOP 47: Risk Treatment in Enterprise Risk Management (excluding Appendices)
- ASOP 55: Capital Adequacy Assessment (excluding Appendices)
- Understanding ORSA Before Implementing It, Risk Management, Aug 2012

3. **Topic: Risk Adjustment**

Learning Objectives
The candidate will understand how to apply risk adjustment in actuarial work.

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) Apply applicable Actuarial Standards of Practice

Resources

- *Healthcare Risk Adjustment and Predictive Modeling,* Duncan, I., 2nd Edition, 2018
    - Ch. 4: Clinical Identification Algorithms
    - Ch. 5: Grouper Models
    - Ch. 6: Development and Construction of DRGs, DCGs, and ETGs
    - Ch. 13: Medicaid Risk Adjustment
    - Ch. 14: Risk Adjustment in Medicare (excluding Appendix 14.1 & 14.2)
    - Ch. 21: Risk Adjustment on the ACA Exchanges
    - Ch. 22: Intro to Risk Adj: Accountable Care Organization (sections 22.1-22.5 only)
- GHS-119-17: The HHS-HCC Risk Adjustment Model for Individual and Small Group Markets under the Affordable Care Act (pp. E1-E26, excluding Exhibits 1, 2 ,5, 6, 8, 9 and text describing those exhibits)
- GHS-120-17: HHS-Operated Risk Adjustment Methodology Meeting Discussion Paper, Ch. 4 (pp.35-69, excluding section 4.2.4)
- ASOP 12: Risk Classification (excluding Appendices)
- ASOP 45: The Use of Health Status Based Risk Adjustment Methodologies (excluding Appendices)