



Case Study

Fall 2021

Group & Health Finance & Valuation, Segment A Exam

Contents

Introduction	3
Firm Description	3
Quantum Health Insurance Company (Quantum)	4
Casino Royale Health & Life Insurance Company (Royale Health)	122
Goldfinger Insurance Company (GIC)	20
The Thunderball Corporation (Thunderball)	288
Live Twice, Inc. (Live Twice)	333
Another Day, Inc. (Another Day)	344

Case Study – Group & Health Finance & Valuation Exam

Introduction

In this case study, you are the President at the Skyfall Actuarial Consulting firm (Skyfall or Firm). The case study will outline the characteristics of the Firm and provide details regarding the various current clients and prospective clients of Skyfall.

All numbers found in this case study are for illustrative purposes only and are not representative of true costs or actual relationships. Any similarities with actual company results are coincidental. Plan design and plan limitations for a given plan year may not be in compliance with current year guidance, regulations, or laws.

Firm Description

Skyfall is a medium-sized consulting firm that was founded in London, Texas and provides actuarial services to life and health insurance companies, state and federal regulatory agencies, and employers. The Firm's staff consists of over 50 actuaries that are located in the United States. The firm employs several actuarial students, who assist in daily tasks and client management. Skyfall is committed to the development and training of future actuaries, and this can be seen in the level of training and types of projects that actuarial students assist with.

Additionally, Skyfall has a location in London, Ontario, which provides actuarial services to clients, employers and insurance carriers in Canada. The Canadian office consists of over 25 actuaries that are located throughout Canada.

The Firm's areas of expertise include:

- Individual and Small Group Major Medical Plans
- Large Group Major Medical Plans
- Medicare Advantage and Part D Plans
- Medicaid Plans
- Retiree Health Benefit Plans
- Group Disability Plans
- Individual and Small Group Dental Plans
- Large Group Dental Plans
- Group Life
- Group Long-Term Care.

The corporate goal is to provide affordable and quality actuarial services to its clients to ensure that they have the tools to be successful in their business endeavors. Skyfall aims to build long-lasting client relationships and strives to provide excellent services for its clients. Due to its size, the Firm caters to individual client's unique needs and aims to exceed the client's expectations.

Skyfall's Clients

Quantum Health Insurance Company (Quantum)

Quantum Health Insurance Company provides individual and small group coverage to its policyholders. Since its inception, Quantum has provided health care services to individuals and small groups and actively seeks to improve the overall health of its members. Skyfall's services include the development and pricing of its products, regulatory compliance guidance, and valuation services.

Individual and Small Group Major Medical Plans

Quantum is actively selling individual and small group health insurance products in most states in the US. Quantum offers various benefit plan design structures; some of which are compliant with the Affordable Care Act (ACA). The products are sold through brokers and agents.

Quantum offers several types of major medical plans, such as HMOs, PPOs, and High Deductible Health Plans (HDHP), and some are still available for new business, while others are not. The closed block (no longer actively sold) is called Quantum Legacy III. The products that are actively being sold are the HMO and PPO products that are ACA-compliant.

Skyfall has been the opining actuary for Quantum and has been calculating the reserves for all blocks of business. The following exhibits are various tables used in the last reserve calculation exercise. The Company provided the paid claims data incurred between July Year 3 and December Year 4 with paid data through December Year 4. These exhibits are various steps in the reserve calculation process.

Page | 4

								Ext	nibit 1 - Mon	thly Claims E	xperience									
									Quantum Le	gacy III - Indi										
										Paid Mon										
		Jul-Year 3	Aug-Year 3	Sep-Year 3				Jan-Year 4		Mar-Year 4	Apr-Year 4	May-Year 4	Jun-Year 4		Aug-Year 4	Sep-Year 4		Nov-Year 4	Dec-Year 4	Total
	Jul-Year 3	31,000	725,000	590,000	217,000	152,000	38,000	23,000	20,000	24,000	11,000	10,000	2,000	0	0	0	0	0	0	1,843,000
	Aug-Year 3	0	54,000	652,000	749,000	246,000	80,000	17,000	16,000	12,000	19,000	14,000	7,000	5,000	0	0	0	0	0	1,871,000
	Sep-Year 3	0	0	56,000	763,000	965,000	338,000	74,000	33,000	34,000	14,000	9,000	3,000	4,000	5,000	0	0	0	0	2,298,000
	Oct-Year 3	0	0	0	44,000	755,000	920,000	287,000	31,000	61,000	44,000	12,000	3,000	2,000	8,000	18,000	0	0	0	2,185,000
	Nov-Year 3	0	0	0	0	43,000	844,000	1,035,000	214,000	160,000	67,000	14,000	19,000	9,000	19,000	8,000	4,000	0	0	2,436,000
	Dec-Year 3	0	0	0	0	0	47,000	725,000	668,000	216,000	75,000	16,000	11,000	1,000	5,000	5,000	11,000	2,000	0	1,782,000
됩	Jan-Year 4	0	0	0	0	0	0	31,000	625,000	591,000	258,000	290,000	23,000	8,000	7,000	39,000	6,000	1,000	9,000	1,888,000
ed Month	Feb-Year 4	0	0	0	0	0	0	0	19,000	483,000	398,000	97,000	42,000	15,000	16,000	46,000	9,000	1,000	5,000	1,131,000
2	Mar-Year 4	0	0	0	0	0	0	0	0	19,000	810,000	521,000	156,000	50,000	15,000	16,000	33,000	2,000	7,000	1,629,000
Tec	Apr-Year 4	0	0	0	0	0	0	0	0	0	34,000	367,000	383,000	226,000	137,000	29,000	50,000	13,000	13,000	1,252,000
l cu	May-Year 4	0	0	0	0	0	0	0	0	0	0	23,000	432,000	432,000	405,000	133,000	32,000	17,000	15,000	1,489,000
-=1	Jun-Year 4	0	0	0	0	0	0	0	0	0	0	0	29,000	306,000	306,000	338,000	138,000	188,000	16,000	1,321,000
	Jul-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	43,000	349,000	375,000	283,000	76,000	40,000	1,166,000
	Aug-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	42,000	451,000	453,000	200,000	84,000	1,230,000
	Sep-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73,000	527,000	568,000	232,000	1,400,000
	Oct-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37,000	383,000	560,000	980,000
	Nov-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66,000	803,000	869,000
	Dec-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	499,000	499,000
	Total	31,000	779,000	1,298,000	1,773,000	2,161,000	2,267,000	2,192,000	1,626,000	1,600,000	1,730,000	1,373,000	1,110,000	1,101,000	1,314,000	1,531,000	1,583,000	1,517,000	2,283,000	27,269,000

	Exhibit 1 (con't) - Monthly Claims Experience																			
								H	MO - Individ	ual (ACA-Cor										
										Paid Mon	_									
		Jul-Year 3	Aug-Year 3	Sep-Year 3						Mar-Year 4	Apr-Year 4	May-Year 4	Jun-Year 4	Jul-Year 4	Aug-Year 4	Sep-Year 4		Nov-Year 4	Dec-Year 4	
	Jul-Year 3	14,000	321,000	299,000	102,000	49,000	19,000	9,000	9,000	6,000	5,000	14,000	1,000	0	0	0	0	0	0	848,000
	Aug-Year 3	0	32,000	427,000	364,000	177,000	50,000	15,000	12,000	7,000	15,000	13,000	3,000	1,000	0	0	0	0	0	1,116,000
	Sep-Year 3	0	0	21,000	276,000	389,000	128,000	30,000	14,000	9,000	6,000	4,000	4,000	1,000	5,000	0	0	0	0	887,000
	Oct-Year 3	0	0	0	13,000	240,000	301,000	94,000	9,000	23,000	16,000	6,000	1,000	1,000	3,000	4,000	0	0	0	711,000
	Nov-Year 3	0	0	0	0	14,000	312,000	354,000	67,000	74,000	27,000	6,000	7,000	4,000	11,000	5,000	2,000	0	0	883,000
	Dec-Year 3	0	0	0	0	0	17,000	331,000	312,000	100,000	17,000	7,000	5,000	3,000	1,000	4,000	7,000	1,000	0	805,000
됩	Jan-Year 4	0	0	0	0	0	0	14,000	304,000	295,000	125,000	162,000	11,000	3,000	4,000	21,000	4,000	1,000	5,000	949,000
d Month	Feb-Year 4	0	0	0	0	0	0	0	13,000	297,000	277,000	67,000	15,000	7,000	3,000	9,000	10,000	1,000	4,000	703,000
Σ	Mar-Year 4	0	0	0	0	0	0	0	0	11,000	450,000	292,000	84,000	25,000	7,000	6,000	14,000	8,000	3,000	900,000
Direct	Apr-Year 4	0	0	0	0	0	0	0	0	0	18,000	220,000	244,000	151,000	113,000	16,000	33,000	16,000	10,000	821,000
Cm	May-Year 4	0	0	0	0	0	0	0	0	0	0	13,000	241,000	250,000	254,000	72,000	12,000	11,000	10,000	863,000
ᆁ	Jun-Year 4	0	0	0	0	0	0	0	0	0	0	0	19,000	183,000	213,000	237,000	103,000	140,000	8,000	903,000
	Jul-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	28,000	246,000	280,000	208,000	58,000	28,000	848,000
	Aug-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	27,000	317,000	346,000	151,000	49,000	890,000
	Sep-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41,000	324,000	352,000	153,000	870,000
	Oct-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,000	205,000	339,000	562,000
	Nov-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,000	882,000	952,000
	Dec-Year 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	470,000	470,000
	Total	14,000	353,000	747,000	755,000	869,000	827,000	847,000	740,000	822,000	956,000	804,000	635,000	657,000	887,000	1,012,000	1,081,000	1,014,000	1,961,000	14,981,000

	Exhibit	2 - Monthly Claims E	xperience						
	PPO	- Individual (ACA-Cor	npliant)						
Paid Claims Paid									
		Through Dec Year 4	Enrollment	PMPM					
	Jul-Year 3	409,000	1,980	206.57					
	Aug-Year 3	491,000	1,980	247.98					
	Sep-Year 3	382,000	1,860	205.38					
	Oct-Year 3	294,000	1,620	181.48					
	Nov-Year 3	362,000	1,620	223.46					
	Dec-Year 3	347,000	1,620	214.20					
th	Jan-Year 4	403,000	1,620	248.77					
Incurred Month	Feb-Year 4	289,000	2,040	141.67					
Į W	Mar-Year 4	371,000	2,100	176.67					
rre	Apr-Year 4	357,000	2,040	175.00					
ıcn	May-Year 4	370,000	2,040	181.37					
I	Jun-Year 4	400,000	2,100	190.48					
	Jul-Year 4	371,000	2,100	176.67					
	Aug-Year 4	395,000	2,100	188.10					
	Sep-Year 4	376,000	2,280	164.91					
	Oct-Year 4	246,000	2,280	107.89					
	Nov-Year 4	203,000	2,400	84.58					
	Dec-Year 4	102,000	2,640	38.64					
	Total	6,168,000							

Exh	ibit 3 - Enrollment -	Individual	
	Quantum Legacy	HMO (ACA -	PPO (ACA -
Month	III	Compliant)	Compliant)
Jul-Year 3	11,100	4,000	1,980
Aug-Year 3	11,700	3,800	1,980
Sep-Year 3	11,400	3,750	1,860
Oct-Year 3	11,400	3,750	1,620
Nov-Year 3	11,400	3,750	1,620
Dec-Year 3	11,400	4,050	1,620
Jan-Year 4	11,800	4,100	1,620
Feb-Year 4	11,800	4,050	2,040
Mar-Year 4	12,000	4,100	2,100
Apr-Year 4	12,000	4,150	2,040
May-Year 4	12,700	4,200	2,040
Jun-Year 4	12,700	4,150	2,100
Jul-Year 4	11,700	4,450	2,100
Aug-Year 4	11,900	4,450	2,100
Sep-Year 4	12,100	4,600	2,280
Oct-Year 4	12,300	4,850	2,280
Nov-Year 4	12,300	4,850	2,400
Dec-Year 4	12,500	4,600	2,640

	Exhibit 4 - Percent of Ultimate Losses by Lag Month												
	Quantum Legacy III - Small Group												
	Lag Month												
		1	2	3	4	5	6	7	8	9	10	11	12
	Jul-Year 3	0.016	0.465	0.694	0.804	0.910	0.924	0.934	0.944	0.963	0.969	0.999	1.000
	Aug-Year 3	0.036	0.356	0.835	0.922	0.953	0.964	0.969	0.977	0.977	0.993	0.998	1.000
	Sep-Year 3	0.026	0.447	0.783	0.879	0.916	0.933	0.966	0.973	0.979	0.989	0.992	1.000
nth	Oct-Year 3	0.029	0.445	0.790	0.959	0.946	0.957	0.971	0.980	0.982	0.986	0.993	1.000
Mo	Nov-Year 3	0.029	0.397	0.856	0.904	0.948	0.962	0.966	0.975	0.980	0.985	0.994	1.000
l pa	Dec-Year 3	0.041	0.451	0.739	0.880	0.957	0.967	0.971	0.974	0.980	0.989	0.999	1.000
ntri	Jan-Year 4	0.027	0.416	0.711	0.836	0.947	0.964	0.970	0.979	0.990	0.994	0.994	1.000
Inc	Feb-Year 4	0.017	0.422	0.758	0.809	0.865	0.880	0.911	0.988	0.998	0.999	1.000	
	Mar-Year 4	0.006	0.483	0.739	0.876	0.905	0.920	0.946	0.973	0.997	1.000		
	Apr-Year 4	0.040	0.411	0.592	0.755	0.923	0.948	0.980	0.998	1.000			
	May-Year 4	0.030	0.413	0.705	0.865	0.970	0.987	0.993	1.000				

	Exhibit 4 (con't) - Percent of Ultimate Losses by Lag Month												
	HMO - Small Group (ACA-Compliant)												
	Lag Month												
		1	2	3	4	5	6	7	8	9	10	11	12
	Jul-Year 3	0.017	0.375	0.740	0.862	0.931	0.961	0.973	0.984	0.991	0.998	0.999	1.000
	Aug-Year 3	0.025	0.385	0.727	0.889	0.948	0.959	0.971	0.978	0.995	0.997	0.999	1.000
	Sep-Year 3	0.023	0.306	0.760	0.932	0.966	0.980	0.986	0.992	0.995	0.995	0.999	1.000
nth	Oct-Year 3	0.019	0.329	0.780	0.891	0.927	0.963	0.986	0.991	0.992	0.993	0.995	1.000
Mo	Nov-Year 3	0.013	0.350	0.763	0.841	0.928	0.967	0.973	0.984	0.987	0.993	0.995	1.000
l ba	Dec-Year 3	0.020	0.426	0.836	0.946	0.973	0.986	0.994	0.993	0.994	0.994	0.999	1.000
nuce	Jan-Year 4	0.012	0.316	0.628	0.768	0.950	0.960	0.964	0.966	0.991	0.994	0.995	1.000
Inc	Feb-Year 4	0.017	0.445	0.797	0.908	0.937	0.950	0.954	0.978	0.991	0.992	1.000	
	Mar-Year 4	0.015	0.517	0.858	0.938	0.967	0.976	0.979	0.995	0.996	1.000		
	Apr-Year 4	0.022	0.275	0.630	0.818	0.896	0.920	0.968	0.985	1.000			
	May-Year 4	0.013	0.266	0.558	0.870	0.956	0.971	0.988	1.000				

					Exhibit 5	· Age-to-Age	Factors					
				P	PO - Small	Group (ACA	-Compliant)				
Incurred		Lag Month										
Month	1	2	3	4	5	6	7	8	9	10	11	12
Jul-Year 3	12.039	1.655	1.299	1.090	1.114	1.013	1.004	1.027	1.014	1.116	1.003	-
Aug-Year 3	12.231	2.112	1.199	1.200	1.015	1.013	1.020	1.002	1.026	1.037	1.057	-
Sep-Year 3	23.283	1.894	1.191	1.190	1.020	1.021	1.014	1.011	1.028	1.044	1.037	-
Oct-Year 3	5.845	1.593	1.171	1.183	1.025	1.031	1.013	1.001	1.014	1.070	1.078	-
Nov-Year 3	11.674	2.469	1.806	1.033	1.086	1.004	1.050	1.001	1.109	1.026	1.071	-
Dec-Year 3	12.605	1.516	1.163	1.117	1.093	1.022	1.002	1.004	1.032	1.056	1.005	-
Jan-Year 4	14.917	1.581	1.121	1.240	1.022	1.004	1.031	1.025	1.026	1.019	1.048	-
Feb-Year 4	17.920	1.936	1.173	1.115	1.014	1.022	1.124	1.029	1.024	1.031	-	-
Mar-Year 4	42.812	1.940	1.152	1.011	1.017	1.004	1.005	1.009	1.005	-	-	-
Apr-Year 4	7.140	2.985	1.104	1.174	1.021	1.031	1.009	1.008	-	-	-	-
May-Year 4	5.167	1.936	1.301	1.106	1.258	1.046	1.009	-	-	-	-	-

Society of Actuaries – Case Study, Group & Health Finance & Valuation US Exam

Quantum Email 1

From: Dominic Greene < DGreene@quantum.com>

To: You <JB007@Skyfall.com>

Sent: April 20, Year 5

Subject: Year 4 YE Financial Statements

We have finished our financial statements. I have enclosed several of the key pages. Let me know if you have any questions.

Dominic

Enclosures:

Exhibit 6 - Financial Statements			
Income Statement			
(In thousands) For	the Years End	ling D	December 31,
Revenue	Year 4		Year 3
Premiums	85,128		94,429
Individual HMO	22,637		18,257
Individual PPO	6,407		5,377
Individual Grandfathered	18,780		32,298
Total Individual	47,823		55,932
Small Group HMO	14,860		11,750
Small Group PPO	7,699		6,013
Small Group Grandfathered	14,747		20,734
Total Small Group	37,305		38,497
Administrative fees Income	32		22
Miscellaneous income	1,703		1,889
Total operating revenue	86,863		96,340
Net investment income	1,340		1,079
Total Revenues	\$ 88,203	\$	97,419
Expenses			
Benefit expense	71,916		76,845
Individual HMO	19,500		14,372
Individual PPO	5,574		4,799
Individual Grandfathered	15,860		25,950
Total Individual	40,934		45,120
Small Group HMO	11,363		9,354
Small Group PPO	6,164		4,820
Small Group Grandfathered	13,455		17,551
Total Small Group	30,983		31,725
Commissions	1,541		757
General insurance expenses	9,534		10,293
Insurance taxes, licenses, and fees, excluding federal income tax	1,703		1,889
Write-in	752		576
Total expenses	\$ 85,446	\$	90,359
Income before income tax expense	2,757		7,059
Income tax expense	937		2,400
Net Income	\$ 1,820	\$	4,659

Exhibit 6 (continued) - Financial Statements								
	lance Sheet							
(In thousands)								
Assets	December 31, Year 4	December 31, Year 3						
Current Assets								
Cash and cash equivalents	11,931	11,308						
Bonds	2,535	2,695						
Real Estate	2,835	2,748						
Investment income due and accrued	201	159						
Premium Receivables	13	11						
Other receivables	995	995						
Other	1,712	1,712						
Electronic data processing equipment	859	859						
Total current assets	21,081	20,487						
Long-term investments	17,505	17,831						
Net property, plant, and equipment	906	880						
Goodwill	151	163						
Other intangible assets	395	396						
Other noncurrent assets	253	245						
Total Assets	\$ 40,291	\$ 40,002						
Liabilities and Shareholder's Equity								
Liabilities								
Current Liabilities:								
Policy liabilities:								
Accident and health contracts	9,535	9,478						
Reserves for future policy benefits	59	59						
Other policyholder liabilities	201	202						
Total policy liabilities	9,795	9,739						
Unearned Income	82	81						
Accounts payable and accrued expenses	3,129	3,299						
Current portion of long-term debt	67	84						
Other current liabilities	1,594	1,594						
Total current liabilities	14,667	14,797						
Drafts outstanding	533	632						
Payable for securities	655	938						
Remittances	3,102	2,987						
Other noncurrent liabilities	815	787						
Total Liabilities	19,772	20,141						
Shareholder's Equity								
Common capital stock	6,500	6,500						
Retained earnings	13,597	12,951						
Unassigned funds (surplus)	422	410						
Total Shareholder's Equity	20,519	19,861						
Total Liabilities and Owner's Equity	\$ 40,291	\$ 40,002						

Casino Royale Health & Life Insurance Company (Royale Health)

Large Group Products/Administrative Services Only

Royale Health offers coverage options for large group employers, including fully insured options and administrative services only (ASO) options. Health coverage plan options offered by Royale Health include medical and prescription plans, which are marketed primarily through agents and brokers. Royale Health has been successful in establishing its own preferred provider networks in the Midwestern states and has the second largest market share in the large group market of the Midwest Region. The medical plan portfolio includes PPO plans and qualified high deductible health plans (HDHP), which can be combined with a Health Savings Account (HSA). Royale Health also administers Health Reimbursement Arrangements (HRA) offered by employers. Royale Health's Board has expressed interest in expanding the company into new product markets. Royale Health has recently participated in preliminary discussions with a Canadian company, Pinewood Insurance Company about a potential merger.

Royale Health Email 1

From: Le Chiffre < lechiffre @RoyaleHealth.com>

To: You <JB007@Skyfall.com>

Sent: March 9, Year 4 Subject: Potential Merger

I have been approached by the CEO of Pinewood Insurance Company (Pinewood), located in Canada, for a possible merger. They are interested in expanding into the U.S., and we could gain from their product expertise. While we do have some overlap in product offerings, Pinewood has experience in some additional markets that we have no experience with.

As you can imagine, this potential merger is highly confidential. As we begin to explore this opportunity, I would like your help through the due diligence and, if necessary, negotiations of this possible merger. I have attached Pinewood's financial information for your review. To provide you with some background, I have also summarized below some of the information on Pinewood that I have thus far:

Pinewood is a large insurance company operating exclusively in Canada. Its corporate vision is similar to ours: to be a leader in the insurance industry, to earn a competitive return for its stockholders, to offer good value to its policyholders while operating in a financially sustainable way, and to attract and retain valuable employees.

Pinewood's primary product offerings include:

- Supplemental medical benefits.
- Group life,
- Disability insurance, and
- Ancillary products, including dental and vision.

Pinewood employs 2,000 people throughout Canada. From what I have gathered so far, Pinewood seems to have a strong reputation in their markets. However, they are interested in growing into other markets and possibly internationally.

I have attached Pinewood's financial information for your review. Please let me know what additional information you think we should seek out.

Thanks,

Le Chiffre

Exhibit 1 - Year 4 Annual Report							
Pinewood Insurance Company	Consolidat	ed Statement	of Operations				
(In thousands, except per share data)			rs Ending December 31,				
Revenue	Year 4	Year 3	Year 2				
Premium Income							
Supplemental Medical	4,023	3,784	3,129				
Group Life	5,888	6,071	6,211				
Disability	2,572	3,420	5,280				
Ancillary Products	1,234	967	957				
Administrative fees Income	2,553	3,118	3,011				
Other revenue	-	-	-				
Total operating revenue	16,270	17,360	18,588				
Net investment income	3,178	5,348	5,707				
Net realized gains (losses) on investments	-	-	-				
Total Revenues	\$19,448	\$22,708	\$24,295				
Expenses							
Benefit expense							
Supplemental Medical	3,359	3,123	2,583				
Group Life	3,592						
Disability	1,517	2,120					
Ancillary Products	963						
Commissions	1,941	2,233	2,671				
General and administrative expense	4,084	4,315	4,859				
Premium Taxes	274	285	312				
Interest Expense	350	323	345				
Amortization of other intangible assets	265	274	260				
Total Expenses	\$16,345	\$17,344	\$19,063				
Income before income tax expense	3,103	5,364	5,232				
Income tax expense	621	1,073	1,046				
Net Income	\$2,482	\$4,291	\$4,186				
Not in a que non de que							
Net income per share	\$0. 66	¢4.22	ф2. 7 2				
Basic	\$2.66						
Diluted	\$2.70	\$4.73	\$3.84				
Average Exchange Rates*							
U.S. dollars	0.74	0.76	0.80				
Euro	0.69	0.67	0.66				
* e.g., on $12/31/\text{Year } 2$, \$1 Can = \$0.80 US							

Exhibit 1 - Year 4	Exhibit 1 - Year 4 Annual Report (continued)							
Pinewood Insurance Company	Consolie	dated Balance Sheet						
(In thousands)								
Assets	December 31, Year 4	December 31, Year 3						
Current Assets								
Cash and cash equivalents	\$9,880	\$8,770						
Premium Receivables	8	8						
Investments available-for-sale, at fair value								
Fixed maturity securities (amortized cost)	1,169	1,097						
Equity securities	256	242						
Other invested assets, current	693	722						
Other receivables	827	745						
Income taxes receivable	53	54						
Net due from subsidiaries	867	1,197						
Securities lending collateral	583	854						
Deferred tax assets, net	250	248						
Other current assets	1	1						
Total Current Assets	\$14,587	\$13,938						
Long-term investments								
Fixed maturity securities	\$534	\$234						
Equity securities	\$6	\$7						
Other invested assets, long-term	\$456	\$495						
Property and equipment, net	4	3						
Deferred tax assets, net, non-current	234	227						
Investment in subsidiaries	5,544	3,456						
Other noncurrent assets	114	37						
Total Assets	\$21,479	\$18,397						
Liabilities and Shareholder's Equity	December 31, Year 4	December 31, Year 3						
Liabilities		_ · · · · · · · · · · · · · · · · · · ·						
Actuarial and Policy Liabilities	\$8,230	\$7,564						
Amounts on deposit	678	876						
Deferred Gains	4	5						
Long-term debt	345	456						
Other Liabilities	795	856						
Total Liabilities	\$10,052	\$9,757						
Shareholder's Equity								
Preferred stock	0	0						
Common stock	5	5						
Additional paid-in capital	326	109						
Retained earnings	1,865	1,777						
Accumulated Income	9,231	6,749						
Total Shareholder's Equity	\$11,427	\$8,640						
Total Liabilities and Owner's Equity	\$21,479	\$18,397						
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Royale Health Email 2

From: Le Chiffre <lechiffre@RoyaleHealth.com>

To: You <JB007@Skyfall.com>

Sent: March 17, Year 5

Subject: Royale Health Financial Information

Hi – I have attached our latest financial information for this past year. Also of note, Royale Health had 444,902,956 common/preferred shares outstanding at YEYear4. Our current tax rate is 21.0%.

Please let me know if you need anything else or need help finding anything.

Thanks,

Le Chiffre

Exhibit 2 - Financial Statements				
Royale Life Insurance Company	Income	Income Statement		
(In thousands)	For the Years End	ing December 31,		
Revenue	Year 4	Year 3		
Premiums	\$66,599	\$57,686		
Administrative fees Income	5,050	4,152		
Other revenue	45	79		
Total operating revenue	71,694	61,917		
Net investment income	749	755		
Net realized gains (losses) on investments	321	423		
Total Revenues	\$72,764	\$63,095		
Expenses				
Benefit expense	\$57,230	\$49,252		
Commissions	1,541	1,591		
General and administrative expense	9,246	8,143		
Premium Taxes	1,332	1,154		
Interest Expense	752	598		
Amortization of other intangible assets	298	287		
Total Expenses	\$70,399	\$61,025		
Income before income tax expense	2,365	2,070		
Income tax expense	1,251	1,253		
Net Income	\$1,114	\$817		

	Statements (continued)	
Royale Life Insurance Company In thousands)		Balance Sheet
Assets	December 31, Year 4	December 31, Year 3
Current Assets	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,
Cash and cash equivalents	\$1,729	\$2,210
Investments available-for-sale, at fair value	• •	
Fixed maturity securities (amortized cost)	16,950	15,913
Equity securities	1,835	1,515
Accrued investment income	159	149
Premium Receivables	3,858	3,748
Other receivables	995	897
Other current assets	1,712	1,829
Assets held for sale	859	901
Total Current Assets	\$28,097	\$27,162
Long-term investments	\$2,102	\$2,055
Net property, plant, and equipment	1,811	1,729
Goodwill	15,971	15,942
Other intangible assets	7,931	7,955
Other noncurrent assets	458	299
Total Assets	\$56,370	\$55,142
	D 1 01 T	D 1 44 Y/ 4
Liabilities and Shareholder's Equity	December 31, Year 4	December 31, Year 3
Liabilities		
Current Liabilities		
Policy Liabilities:		
Medical claims payable	\$6,058	\$6,095
Reserves for future policy benefits	59	55
Other policyholder liabilities	2,023	2,125
Total Policy Liabilities	\$8,140	\$8,275
Unearned Income	811	875
Accounts payable and accrued expenses	3,299	2,975
Short-term borrowings	389	212
Current portion of long-term debt	467	489
Other current liabilities	1,594	1,647
Total Current Liabilities	\$14,700	\$14,473
Long-term debt, less current portion	11,253	12,121
Reserves for future policy benefits, noncurrent	655	661
Deferred tax liabilities, net	2,987	2,857
Other noncurrent liabilities	787	895
Total Liabilities	\$30,382	\$31,007
Shareholder's Equity		
Paid-in capital - Common Stock	\$12,094	\$11,976
Retained earnings	13,513	11,950
Accumulate other comprehensive income	381	209
Total Shareholder's Equity	\$25,988	\$24,135

Royale Health Email 3

From: Le Chiffre <lechiffre@RoyaleHealth.com>

To: You <JB007@Skyfall.com>

Sent: July 17, Year 5

Subject: Royale Health Financial Information

Hello! As per your request, I have attached experience data for our 5 clients that have the Shared Return product. This data covers the period of 1/1/Year 3 - 6/30/Year 5.

Thanks, Le Chiffre

Exhibit 3 – Royale Health Shared Return Client Data					
(\$ in thousands)	Client A	Client B	Client C	Client D	Client E
Contract Effective Date	1/1/Year 3				
Year 3 Annual Earned Premium	\$1,000	\$1,500	\$2,000	\$2,500	\$3,000
Year 4 Annual Earned Premium	\$1,200	\$1,700	\$2,200	\$2,700	\$3,200
Year 5 Annual Earned Premium	\$1,400	\$1,900	\$2,400	\$2,900	\$3,400
Claims: 1Q'Year 3	\$215	\$300	\$1,000	\$750	\$800
2Q'Year 3 3Q'Year 3	\$215 \$215	\$300 \$300	\$500 \$500	\$750 \$750	\$800 \$900
4Q'Year 3 1Q'Year 4	\$215 \$250	\$300 \$275	\$500 \$250	\$750 \$600	\$900 \$1,000
2Q'Year 4 3Q'Year 4	\$250 \$250	\$275 \$275	\$250 \$250	\$600 \$600	\$1,000 \$1,000
4Q'Year 4	\$250	\$275	\$250	\$600	\$1,000
1Q'Year 5 2Q'Year 5	\$275 \$275	\$275 \$275	\$250 \$250	\$600 \$600	\$1,000 \$1,000

Goldfinger Insurance Company (GIC)

Medicare Advantage/Part D

Goldfinger Insurance Company provides Medicare Advantage Plans and Part D Plans (MAPD), Medicaid and CHIP plans to the applicable target groups. GIC is domiciled in Fort Knox, Kentucky. The only MAPD offering is a Dual-Eligible Special Needs Plan (SNP). Total membership in the MAPD program is roughly 50,000 members. Until recently, this product was available only in Kentucky; however, the program was expanded into parts of Tennessee in Year 4. Membership in Tennessee is very low and little claims experience is available.

Skyfall provides actuarial support for GIC's Medicare products and aids in product design and bid submission, as necessary. The following are selections from the email correspondence between Goldfinger and Skyfall regarding the latest round of pricing.

Goldfinger Email 1

From: Jill Masterson < JMasterson@goldfingeric.com>

To: You <JB007@Skyfall.com>

Sent: February 25th, Year 5

Subject: Medicare Advantage Cost Sharing

Hello again, we can't thank you enough for performing so many "odd jobs" related to our Medicare Advantage products. You have certainly been essential to our success with the MAPD plan.

Our product development team has proposed waiving the skilled nursing facility (SNF) copay for the first four days and applying it instead to days five through eight. This is more in line with our primary competitor, and they believe it will increase new enrollment. However, I'm a little worried it might be too expensive. Please take a look at that and let us know whether we can make this change without losing too much on the profit side.

I wasn't sure what information you'd need, but I had Auric pull some historical information on the SNF benefit. I attached a summary of our historical experience with SNF length-of-stay, as well as the Year 4 experience by benefit. The attached trend tables were published by a respected research group and they might be a good starting point for prospective trend estimates going forward. If you need anything else, don't hesitate to ask.

Thanks again,
Jill Masterson
Chief Financial Officer
Goldfinger Insurance Company

Enclosures:

Goldfinger Insurance SNF Continuance (MAPD):

Exhibit 1 - Skilled Nursing Facility				
Length of Stay	Cumulative			
(Days)	Frequency			
1	0.10			
2	0.17			
3	0.23			
4	0.28			
5	0.33			
6	0.36			
7	0.38			
8	0.40			
100	1.00			

Exhibit 2 - Medicare Advantage Kentucky - Year 4 Experience						
Medical	Utilization	Utilization		Allowed	Net Paid	Cost Share
	Units	/1000	Unit Cost	PMPM	PMPM	PMPM
Inpatient Facility	Days	750	\$6,000	\$375.00	\$360.00	\$15.00
Skilled Nursing Facility	Days	600	\$1,000	\$50.00	\$49.50	\$0.50
Home Health	Visits	200	\$210	\$3.50	\$3.50	\$0.00
Ambulance	Trips	120	\$700	\$7.00	\$6.65	\$0.35
DME/Prosthetics/Supplies	Other	600	\$240	\$12.00	\$10.80	\$1.20
Emergency Room	Visits	300	\$1,200	\$30.00	\$26.10	\$3.90
Outpatient Surgery	Procedures	150	\$3,000	\$37.50	\$33.75	\$3.75
Professional	Visits	6000	\$200	\$100.00	\$97.00	\$3.00
Other Medicare Part B	Other	1000	\$1,500	\$125.00	\$106.25	\$18.75
Total				\$740.00	\$693.55	\$46.45
Prescription		Scripts		Allowed	Net Paid	Cost Share
		/1000	Unit Cost	PMPM	PMPM	PMPM
Preferred Generic		3000	\$18	\$4.50	\$4.50	\$0.00
Non-Preferred Generic		20000	\$21	\$35.00	\$29.16	\$5.84
Preferred Brand		2600	\$430	\$93.17	\$80.37	\$12.79
Non-Preferred Brand		700	\$510	\$29.75	\$19.93	\$9.82
Specialty		120	\$4,800	\$48.00	\$37.33	\$10.67
Total				\$210.42	\$171.30	\$39.11
				<u></u>		

Exhibit 3 shows the publicly-available prospective trends for Kentucky and Tennessee.

Exhibit 3 - Medicare Advantage Annual Trend Factors - Kentucky				
	Year 4	-Year 5	Year 5 -Year 6	
	Unit	Utilization/	Unit	Utilization/
Service Category	Cost	1000	Cost	1000
Inpatient Hospital	3.00%	-0.50%	1.00%	0.00%
Skilled Nursing and Home Health	1.50%	0.00%	0.25%	0.25%
Outpatient Hospital	2.00%	0.00%	2.00%	0.50%
Physician	0.00%	2.00%	0.50%	3.50%
Other	-1.00%	0.00%	0.50%	1.00%

Exhibit 3 (con't) - Medicare Advantage Annual Trend Factors - Tennessee					
	Year 4	-Year 5	Year 5 - Year 6		
	Unit	Utilization/	Unit	Utilization/	
Service Category	Cost	1000	Cost	1000	
Inpatient Hospital	3.00%	-0.50%	-5.50%	0.00%	
Skilled Nursing and Home Health	1.50%	0.00%	-0.50%	0.25%	
Outpatient Hospital	2.00%	0.00%	2.00%	0.50%	
Physician	0.00%	2.00%	-2.00%	3.50%	
Other	-1.00%	0.00%	0.50%	1.00%	

Exhibi	Exhibit 4 - Cost Sharing for Goldfinger MAPD Plans						
MA Benefit Category	Year 4	Year 5	Year 6				
Deductible	\$200	\$200	\$200				
General Coinsurance	20%	20%	20%				
Maximum Out-of-Pocket	\$6,500	\$6,500	\$6,000				
	No cost sharing for	No cost sharing for	No cost sharing for				
Inpatient	first three days, then	first three days, then	first three days, then				
	\$150 copay per day.	\$150 copay per day.	\$150 copay per day.				
	\$50 copay per day for	\$50 copay per day for	\$40 copay per day for				
Skilled Nursing Facility	first five days, no cost	first five days, no cost	first four days, no cost				
	sharing afterwards	sharing afterwards	sharing afterwards				
Home Health Services	No cost sharing	No cost sharing	No cost sharing				
Emergency Care Copay	\$75	\$75	\$50				
Primary Care Copay	\$30	\$35	\$35				
Specialist Copay	\$55	\$50	\$50				
Other Medicare-Covered	Deductible/	Deductible/	Deductible/				
Other Medicare-Covered	Coinsurance	Coinsurance	Coinsurance				
PD Benefit Category	Year 4	Year 5	Year 6				
Annual Deductible	\$275	\$275	\$300				
Preferred Generic Rx	\$0 Copay	\$5 Copay	\$0 Copay				
Non-Preferred Generic Rx	\$5 Copay	\$7 Copay	\$5 Copay				
Preferred Brand Rx	\$45 Copay	\$25 Copay	\$45 Copay				
Non-Preferred Brand Rx	30% Coinsurance	30% Coinsurance	30% Coinsurance				
Specialty Rx	20% Coinsurance	20% Coinsurance	20% Coinsurance				

Goldfinger Email 2

From: Jill Masterson < JMasterson@goldfingeric.com>

To: You <JB007@Skyfall.com>

Sent: March 15, Year 5

Subject: Dual-Eligible (DE) Inpatient Costs

Hello again! As you know, one important element of our Medicare Advantage bid development pertains to projected population changes. Because different demographics have very different costs, we have to project as accurately as possible the changes in both our revenue and our expenses due to aging, new enrollees, and other factors that represent a change in the demographic mix. The reviewers usually expect detailed documentation of our process, so make sure to keep that in mind as we develop those projections.

Since we are continually expanding, we want to keep a close eye on any major shifts in membership. Auric suggested that maybe our factors for some of those demographic characteristics might be too simplistic and recommended we look at the cost differentials for inpatient costs separately from other costs. He is still working on getting all of the data from the providers across the state, but below is our

admission experience for last year for one of our hospitals. Hopefully, this will help you get a head start on projecting changes in cost. I have also included the factors we have used in the past for projected new enrollees, along with enrollment projections from our sales team.

Please start looking at this data, and we will get you the data from our other providers as soon as possible.

Thanks, Jill

Enclosures:

Exhibi	Exhibit 5 - Goldfinger Inpatient Claims at Fort Knox Hospital, Year 4						
			Dual Eligible		Discharge		
Member	Age	Gender	(DE) Status	Admit Date	Date	DRG	
George	68	Male	DE	8/14/Year 4	9/5/Year 4	4	
Auric	81	Male	DE	2/7/Year 4	2/26/Year 4	7	
Auric	81	Male	DE	3/1/Year 4	3/31/Year 4	7	
Ian	65	Male	Non-DE	4/5/Year 4	5/5/Year 4	6	
Tilly	71	Female	Non-DE	3/15/Year 4	4/5/Year 4	3	
Tilly	71	Female	Non-DE	5/4/Year 4	5/30/Year 4	1	
Tilly	71	Female	Non-DE	10/4/Year 4	10/19/Year 4	1	
Q	66	Male	DE	11/27/Year 4	11/28/Year 4	5	
Olivia	70	Female	Non-DE	6/6/Year 4	6/12/Year 4	5	
Moneypenny	91	Female	Non-DE	6/7/Year 4	6/27/Year 4	2	
Felix	68	Male	Non-DE	8/23/Year 4	8/30/Year 4	4	
Bonita	74	Female	Non-DE	9/2/Year 4	9/11/Year 4	3	
Shirley	66	Female	DE	4/4/Year 4	4/13/Year 4	1	

Exhibit 6 - Regional Factors				
	Year 4 MAPD Year 5 MAI			
Region	Factor	Members	Members	
North	1.09	15,124	17,145	
East	0.98	16,745	15,977	
South	1.05	8,235	10,542	
West	0.82	7,896	7,336	

Exhibit 7 - Age Factors					
	Year 4 MAPD Year 5 MAPI				
Age	Factor	Members	Members		
Under 70	0.93	24,804	31,524		
70 to 74	1.04	15,331	14,112		
75 to 79	1.08	4,450	4,852		
80+	1.22	3,415	512		

Exhibit 8 - Gender Factors					
Year 4 MAPD Year 5 MAPD					
Gender	Factor	Members	Members		
Male	1.03	20,546	21,213		
Female	0.98	27,454	29,787		

Medicaid

GIC also participates in a Financial Alignment Demonstration contract with Kentucky and CMS, which began on July 1st, Year 4. This demonstration will be carried out under the Capitated Model. The target population of the demonstration is limited to dual-eligible beneficiaries over the age of 80. As a result, the per-member per-month (PMPM) costs for the demonstration members are expected to be materially higher than average for the MAPD plan. The primary source of enrollment is pre-existing Goldfinger members. The majority of Goldfinger's members over the age of 80 have elected to participate in the demonstration due to its more generous benefits. Skyfall was asked to assist in the calculation of prospective capitation payments over the life of the demonstration. The past two years of income statements and balance sheets for GIC is provided below:

	Exhibit 9 - Financial Statements		
Goldfi	nger Insurance Company (GIC) - Incom	me Statement	
(In thousands)		For the Years Ending	g December 31
Revenue		Year 4	Year 3
	Premiums	\$196,810	\$141,687
	Medicare Advantage	173,412	134,876
	Medicare Part D	10,620	6,811
	Total MAPD	\$184,032	\$141,687
	Dual-Eligible Demonstration	12,778	-
	Total operating revenue	\$196,810	\$141,687
	Net investment income	6,273	5,269
	Total Revenues	\$203,083	\$146,956
Expenses			
	Benefit expense	\$168,112	\$119,367
	Medicare Advantage	149,481	113,476
	Medicare Part D	9,027	5,891
	Total MAPD	\$158,508	\$119,367
	Total Dual-Eligible Demonstration	9,604	-
	Commissions	3,543	2,210
	General administrative expense	17,786	14,693
	Premium Taxes	3,787	2,914
	Interest Expense	961	1,095
	Amortization of other intangible assets	311	300
	Total expenses	\$194,500	\$140,579
	Income before income tax expense	8,583	6,377
	Income tax expense	3,090	2,296
Net Income		\$5,493	\$4,081

Exhibit 9 (con't) - Financial Statements					
Goldfinger Insurance Company (GIC) - Balance Sheet					
(In thousands)					
Assets	December 31, Year 4	December 31, Year 3			
Current Assets	\$82,982	\$86,983			
Long-term investments	9,524	6,165			
Net property, plant, and equipment	4,865	5,187			
Net Intangible Assets	31,969	27,109			
Total Assets	\$129,340	\$125,444			
Liabilities and Shareholder's Equity					
Liabilities					
Policy liabilities:					
Claims unpaid	\$16,965	\$17,066			
Reserves for future policy benefits	321	154			
Other policyholder liabilities	4,789	5,746			
Total policy liabilities	\$22,075	\$22,966			
Unearned Premium	3,456	2,651			
Premiums received in advance	18,014	14,904			
Long-term debt	29,785	33,938			
Reserves for future policy benefits, noncurrent	345	290			
Deferred tax liabilities, net	3,129	4,524			
Payable for securities	2,203	2,506			
Total Liabilities	\$35,462	\$41,258			
Shareholder's Equity					
Common capital stock	\$25,521	\$20,945			
Retained earnings	68,357	63,241			
Total Shareholder's Equity	\$93,878	\$84,186			
Total Liabilities and Owner's Equity	\$129,340	\$125,444			

The Thunderball Corporation (Thunderball)

The Thunderball Corporation is a large insurance company operating in the United States and Canada. The corporate vision is to be a comprehensive provider of long term insurance products. Thunderball seeks to offer competitive products earning reasonable return for stockholders while growing at a financially sustainable rate. Thunderball offers Group Long-Term Disability, Group Life, and Group and Individual Long-Term Care.

Long-Term Disability

Thunderball has experienced steady growth in Long-Term Disability sales. The following tables show the reserve factors for various ages and durations. Tables 1 & 2 are the newest tables created by the internal team, and Tables 3 & 4 are the tables that have been used for many years.

				Exhib	it 1 - Claim	Reserve I	actors				
\$3,000 Ind	exed Gross l	Monthly B	enefit to Age 6	55, Reserves	per \$1 Ben	efit, No Di	agnosis,				
Three Mon	th Elimination	on Period,	24 Month Ow	n Occupation	n Period, 5.	0% Discou	ınt Rate				
	Duration				Duration				Duration		
Age	(Months)	Male	Female	Age	(Months)	Male	Female	Age	(Months)	Male	Female
27	4	24.70	27.90	35	4	34.22	37.74	43	4	40.68	42.48
27	9	42.20	46.40	35	9	53.96	58.00	43	9	59.66	61.74
27	18	60.60	64.90	35	18	71.40	77.06	43	18	74.16	78.54
27	27	70.10	74.50	35	27	79.62	86.02	43	27	80.02	85.24
27	48	100.60	105.20	35	48	103.08	111.04	43	48	94.04	100.74
27	60	106.10	110.20	35	60	106.26	114.04	43	60	94.24	100.78
28	4	25.89	29.13	36		35.41	38.97	44		41.36	42.86
28	9	43.67	47.85	36	9	55.43	59.45	44	9	60.12	61.88
28	18	61.95	66.42	36	18	72.75	78.58	44	18	74.17	78.28
28	27	71.29	75.94	36	27	80.81	87.46	44	27	79.69	84.63
28	48	100.91	105.93	36		103.39	111.77	44	48	92.43	98.78
28	60	106.12	110.68	36	60	106.28	114.52	44	60	92.23	98.41
29	4	27.08	30.36	37	4	36.60	40.20	45	4	42.04	43.24
29	9	45.14	49.30	37	9	56.90	60.90	45		60.58	62.02
29	18	63.30	67.94	37	18	74.10	80.10	45		74.18	78.02
29	27	72.48	77.38	37	27	82.00	88.90	45	27	79.36	84.02
29	48	101.22	106.66	37	48	103.70	112.50	45	48	90.82	96.82
29	60	106.14	111.16	37	60	106.30	115.00	45	60	90.22	96.04
30	4	28.27	31.59	38	4	37.28	40.58	46		42.72	43.62
30	9	46.61	50.75	38	9	57.36	61.04	46	9	61.04	62.16
30	18	64.65	69.46	38	18	74.11	79.84	46	18	74.19	77.76
30	27	73.67	78.82	38	27	81.67	88.29	46	27	79.03	83.41
30	48	101.53	107.39	38	48	102.09	110.54	46		89.21	94.86
30	60	106.16	111.64	38	60	104.29	110.54	46	60	88.21	93.67
31	4	29.46	32.82	39	4	37.96	40.96	47	4	43.40	44.00
31	9	48.08	52.82	39	9	57.82	61.18	47	9	61.50	62.30
31	18	66.00	70.98	39	18	74.12	79.58	47	18	74.20	77.50
31	27	74.86	80.26	39	27	81.34	87.68	47	27	78.70	82.80
31	48	101.84	108.12	39	48	100.48	108.58	47	48	87.60	92.90
31	60	106.18	112.12	39		100.48	110.26	47	60	86.20	91.30
32	4	30.65	34.05	40	4	38.64	41.34	48		42.58	42.95
32	9	49.55	53.65	40	9	58.28	61.32	48	9	59.79	60.36
32	18	67.35	72.50	40	18	74.13	79.32	48		71.50	74.47
32	27	76.05	81.70	40	27	81.01	87.07	48	27	75.32	79.03
32	48	102.15	108.85	40	48	98.87	106.62	48	48	82.39	87.22
32	60	102.13	112.60	40	60	100.27	100.02	48	60	80.29	84.91
33	4			40	4			49	4		41.90
	9	31.84	35.28		9	39.32	41.72	49	9	41.76	58.42
33	18	51.02 68.70	55.10 74.02	41	18	58.74 74.14	61.46 79.06	49	18	58.08 68.80	71.44
33	27	77.24	83.14	41	27	80.68	86.46	49	27	71.94	75.26
33 33	48	102.46	109.58	41	48	97.26 98.26	104.66	49		77.18	81.54 78.52
	60	106.22	113.08		60		105.52			74.38	
34	4	33.03	36.51	42	4	40.00	42.10 61.60	50		40.94	40.85
34	9	52.49	56.55	42	9	59.20		50		56.37	56.48
34	18	70.05	75.54	42	18	74.15	78.80	50		66.10	68.41
34	27	78.43	84.58	42	27	80.35	85.85	50		68.56	71.49
34	48	102.77	110.31	42	48	95.65	102.70	50		71.97	75.86
34	60	106.24	113.56	42	60	96.25	103.15	50	60	68.47	72.13

					it 2 - Claim			,			
\$3,000 Ind	exed Gross l	Monthly B	enefit to Age 6	55, Reserves	per \$1 Ben	efit, No Di	agnosis,				
Six Month	Elimination 1	Period, 24	Month Own (Occupation I	Period, 5.0%	Discount	Rate				
	Duration				Duration				Duration		
Age	(Months)	Male	Female	Age	(Months)	Male	Female	Age	(Months)	Male	Female
27	7	40.80	45.30	35	7	52.24	56.50	43	7	57.74	60.02
27	9	45.80	50.20	35	9	57.40	61.80	43	9	62.46	65.00
27	18	62.30	66.80	35	18	72.94	78.72	43	18	75.30	79.84
27	27	74.60	79.20	35	27	83.40	90.16	43	27	82.54	88.10
27	48	100.60	105.20	35	48	103.08	111.04	43	48	94.04	100.74
27	60	106.10	110.20	35	60	106.26	114.04	43	60	94.24	100.78
28	7	42.23	46.70	36	7	53.67	57.90	44	7	58.18	60.14
28	9	47.25	51.65	36	9	58.85	63.25	44		62.82	65.05
28	18	63.63	68.29	36	18	74.27	80.21	44		75.25	79.53
28	27	75.70	80.57	36	27	84.50	91.53	44		82.03	87.30
28	48	100.91	105.93	36	48	103.39	111.77	44		92.43	98.78
28	60	106.12	110.68	36	60	106.28	114.52	44		92.23	98.41
29	7	43.66	48.10	37	7	55.10	59.30	45		58.62	60.26
29	9	48.70	53.10	37	9	60.30	64.70	45		63.18	65.10
29	18	64.96	69.78	37	18	75.60	81.70	45	18	75.20	79.22
29	27	76.80	81.94	37	27	85.60	92.90	45		81.52	86.50
29	48	101.22	106.66	37	48	103.70	112.50	45	48	90.82	96.82
29	60	101.22	111.16	37	60	106.30	112.30	45	60	90.82	96.82
	7			38	7	55.54					
30	9	45.09	49.50				59.42	46		59.06	60.38
30		50.15	54.55	38	9	60.66	64.75	46		63.54	65.15
30	18	66.29	71.27	38	18	75.55	81.39	46		75.15	78.91
30	27	77.90	83.31	38	27	85.09	92.10	46		81.01	85.70
30	48	101.53	107.39	38	48	102.09	110.54	46		89.21	94.86
30	60	106.16	111.64	38	60	104.29	112.63	46		88.21	93.67
31	7	46.52	50.90	39	7	55.98	59.54	47		59.50	60.50
31	9	51.60	56.00	39	9	61.02	64.80	47	9	63.90	65.20
31	18	67.62	72.76	39	18	75.50	81.08	47	18	75.10	78.60
31	27	79.00	84.68	39	27	84.58	91.30	47		80.50	84.90
31	48	101.84	108.12	39	48	100.48	108.58	47		87.60	92.90
31	60	106.18	112.12	39	60	102.28	110.26	47	60	86.20	91.30
32	7	47.95	52.30	40	7	56.42	59.66	48		57.91	58.67
32	9	53.05	57.45	40	9	61.38	64.85	48		62.05	63.10
32	18	68.95	74.25	40	18	75.45	80.77	48		72.35	75.50
32	27	80.10	86.05	40	27	84.07	90.50	48	27	76.85	80.85
32	48	102.15	108.85	40	48	98.87	106.62	48		82.39	87.22
32	60	106.20	112.60	40	60	100.27	107.89	48		80.29	84.91
33	7	49.38	53.70	41	7	56.86	59.78	49		56.32	56.84
33	9	54.50	58.90	41	9	61.74	64.90	49		60.20	61.00
33	18	70.28	75.74	41	18	75.40	80.46	49		69.60	72.40
33	27	81.20	87.42	41	27	83.56	89.70	49		73.20	76.80
33	48	102.46	109.58	41	48	97.26	104.66	49	48	77.18	81.54
33	60	106.22	113.08	41	60	98.26	105.52	49	60	74.38	78.52
34	7	50.81	55.10	42	7	57.30	59.90	50	7	54.73	55.01
34	9	55.95	60.35	42	9	62.10	64.95	50	9	58.35	58.90
34	18	71.61	77.23	42	18	75.35	80.15	50	18	66.85	69.30
34	27	82.30	88.79	42	27	83.05	88.90	50	27	69.55	72.75
34	48	102.77	110.31	42	48	95.65	102.70	50		71.97	75.86
34	60	106.24	113.56	42		96.25	103.15	50		68.47	72.13

					it 3 - Claim			1			
,000 Ind	exed Gross l	Monthly B	enefit to Age 6	5, Reserves	per \$1 Bene	efit, No Di	agnosis,				
ree Mor	nth Elimination	on Period,	24 Month Ow	n Occupation	n Period, 5.	0% Discou	ınt Rate				
	Duration				Duration				Duration		
Age	(Months)	Male	Female	Age	(Months)	Male	Female	Age	(Months)	Male	Female
27	4	44.40	47.20	35	4	52.80	55.52	43	4	58.50	60.5
27	9	68.70	76.00	35	9	76.22	82.72	43	9	78.52	83.3
27	18	95.00	110.80	35	18	98.28	111.12	43	18	94.36	103.4
27	27	108.30	127.50	35	27	109.34	124.62	43	27	101.26	111.7
27	48	127.50	146.40	35	48	121.34	136.00	43	48	105.34	114.9
27	60	133.70	151.10	35	60	123.54	137.10	43	60	103.96	112.7
28	4	45.45	48.24	36	4	53.85	56.56	44	4	59.10	61.0
28	9	69.64	76.84	36	9	77.16	83.56	44	9	78.59	83.1
28	18	95.41	110.84	36	18	98.69	111.16	44		93.57	102.1
28	27	108.43	127.14	36	27	109.47	124.26	44	27	99.87	109.6
28	48	126.73	145.10	36	48	120.57	134.70	44	48	102.93	111.8
28	60	132.43	149.35	36	60	122.27	135.35	44	60	101.12	109.2
29	4	46.50	49.28	37	4	54.90	57.60	45	4	59.70	61.5
29	9	70.58	77.68	37	9	78.10	84.40	45	9	78.66	82.9
29	18	95.82	110.88	37	18	99.10	111.20	45	18	92.78	100.8
29	27	108.56	126.78	37	27	109.60	123.90	45	27	98.48	107.6
29	48	125.96	143.80	37	48	119.80	133.40	45	48	100.52	108.7
29	60	131.16	147.60	37	60	121.00	133.60	45	60	98.28	105.7
30	4	47.55	50.32	38	4	55.50	58.09	46	4	60.30	62.0
30	9	71.52	78.52	38	9	78.17	84.22	46	9	78.73	82.7
30	18	96.23	110.92	38	18	98.31	109.90	46	18	91.99	99.5
30	27	108.69	126.42	38	27	108.21	121.87	46	27	97.09	105.6
30	48	125.19	142.50	38	48	117.39	130.32	46	48	98.11	105.6
30	60	129.89	145.85	38	60	118.16	130.12	46	60	95.44	102.2
31	4	48.60	51.36	39	4	56.10	58.58	47	4	60.90	62.5
31	9	72.46	79.36	39	9	78.24	84.04	47	9	78.80	82.6
31	18	96.64	110.96	39	18	97.52	108.60	47	18	91.20	98.2
31	27	108.82	126.06	39	27	106.82	119.84	47	27	95.70	103.6
31	48	124.42	141.20	39	48	114.98	127.24	47	48	95.70	102.6
31	60	128.62	144.10	39	60	115.32	126.64	47	60	92.60	98.8
32	4	49.65	52.40	40	4	56.70	59.07	48	4	59.59	61.0
32	9	73.40	80.20	40	9	78.31	83.86	48		76.27	79.7
32	18	97.05	111.00	40	18	96.73	107.30	48		87.38	93.8
32	27	108.95	125.70	40	27	105.43	117.81	48		91.06	98.3
32	48	123.65	139.90	40	48	112.57	124.16	48	48	89.77	96.0
32	60	127.35	142.35	40	60	112.48	123.16	48	60	86.09	91.7
33	4	50.70	53.44	41	4	57.30	59.56	49	4	58.28	59.5
33	9	74.34	81.04	41	9	78.38	83.68	49	9	73.74	76.9
33	18	97.46	111.04	41	18	95.94	106.00	49	18	83.56	89.4
33		109.08	125.34	41	27	104.04	115.78	49	27	86.42	93.0
33		122.88	138.60	41	48	110.16	121.08	49	48	83.84	89.5
33		126.08	140.60	41	60	109.64	119.68	49		79.58	84.6
34		51.75	54.48	42	4	57.90	60.05	50		56.97	58.0
34	9	75.28	81.88	42	9	78.45	83.50	50		71.21	74.0
34	18	97.87	111.08	42	18	95.15	104.70	50		79.74	85.0
34		109.21	124.98	42	27	102.65	113.75	50		81.78	87.7
34		122.11	137.30	42	48	107.75	118.00	50		77.91	83.0
34		124.81	138.85	42	60	106.80	116.20	50		73.07	77.5

					it 4 - Claim						
		-	enefit to Age 6		_						
Six Month	Elimination	Period, 24	Month Own 0	Occupation I	Period, 5.0%	Discount	Rate				
	Duration				Duration				Duration		
Age	(Months)	Male	Female	Age	(Months)	Male	Female	Age	(Months)	Male	Female
27	7	67.80	74.40	35	7	76.44	82.48	43	7	78.36	82.70
27	9	74.40	82.90	35	9	82.16	89.62	43	9	82.78	88.18
27	18	96.90	113.10	35	18	100.02	113.18	43	18	95.58	104.80
27	27	111.60	130.90	35	27	111.76	126.98	43	27	102.50	112.80
27	48	127.50	146.40	35	48	121.34	136.00	43	48	105.34	114.92
27	60	133.70	151.10	35	60	123.54	137.10	43	60	103.96	112.72
28	7	68.88	75.41	36	7	77.52	83.49	44	7	78.32	82.40
28	9	75.37	83.74	36	9	83.13	90.46	44	9	82.56	87.66
28	18	97.29	113.11	36	18	100.41	113.19	44	18	94.71	103.40
28	27	111.62	130.41	36	27	111.78	126.49	44	27	100.95	110.60
28	48	126.73	145.10	36	48	120.57	134.70	44	48	102.93	111.84
28	60	132.43	149.35	36	60	122.27	135.35	44	60	101.12	109.24
29	7	69.96	76.42	37	7	78.60	84.50	45	7	78.28	82.10
29	9	76.34	84.58	37	9	84.10	91.30	45		82.34	87.14
29	18	97.68	113.12	37	18	100.80	113.20	45	18	93.84	102.00
29				37							
	27	111.64	129.92		27	111.80	126.00	45	27	99.40	108.40
29	48	125.96	143.80	37	48	119.80	133.40	45	48	100.52	108.76
29	60	131.16	147.60	37	60	121.00	133.60	45	60	98.28	105.76
30	7	71.04	77.43	38	7	78.56	84.20	46	7	78.24	81.80
30	9	77.31	85.42	38	9	83.88	90.78	46		82.12	86.62
30	18	98.07	113.13	38	18	99.93	111.80	46		92.97	100.60
30	27	111.66	129.43	38	27	110.25	123.80	46	27	97.85	106.20
30	48	125.19	142.50	38	48	117.39	130.32	46		98.11	105.68
30	60	129.89	145.85	38	60	118.16	130.12	46		95.44	102.28
31	7	72.12	78.44	39	7	78.52	83.90	47	7	78.20	81.50
31	9	78.28	86.26	39	9	83.66	90.26	47	9	81.90	86.10
31	18	98.46	113.14	39	18	99.06	110.40	47	18	92.10	99.20
31	27	111.68	128.94	39	27	108.70	121.60	47	27	96.30	104.00
31	48	124.42	141.20	39	48	114.98	127.24	47	48	95.70	102.60
31	60	128.62	144.10	39	60	115.32	126.64	47	60	92.60	98.80
32	7	73.20	79.45	40	7	78.48	83.60	48	7	75.68	78.68
32	9	79.25	87.10	40	9	83.44	89.74	48	9	79.06	82.91
32	18	98.85	113.15	40	18	98.19	109.00	48		88.19	94.73
32	27	111.70	128.45	40	27	107.15	119.40	48	27	91.44	98.51
32	48	123.65	139.90	40	48	112.57	124.16	48	48	89.77	96.07
32	60	127.35	142.35	40	60	112.48	123.16	48	60	86.09	91.72
33	7	74.28	80.46	41	7	78.44	83.30	49	7	73.16	75.86
33	9	80.22	87.94	41	9	83.22	89.22	49		76.22	79.72
33	18	99.24	113.16	41	18	97.32	107.60	49	18	84.28	90.26
33	27	111.72	127.96	41	27	105.60	117.20	49		86.58	93.02
33	48	122.88	138.60	41	48	110.16	121.08	49		83.84	89.54
33	60	126.08	140.60	41	60	109.64	119.68	49		79.58	84.64
34	7	75.36	81.47	42	7	78.40	83.00	50		70.64	73.04
34	9	81.19	88.78	42	9	83.00	88.70	50		73.38	76.53
34	18	99.63	113.17	42	18	96.45	106.20	50		80.37	85.79
34	27		127.47		27	104.05	115.00	50		81.72	87.53
		111.74		42							
34	48	122.11	137.30	42	48	107.75	118.00	50		77.91	83.01
34	60	124.81	138.85	42	60	106.80	116.20	50	60	73.07	77.56

Live Twice, Inc. (Live Twice)

Live Twice, incorporated in Florida, is a mature firm that offers a generous retiree medical and pharmacy package to its union employees. The plan is fully insured with the employer fully subsidizing the premium for its retirees. Active employees, pre-Medicare retirees, and Medicare-eligible retirees pay the same premium. Live Twice's Year 5 monthly rates and census data are given below:

Exhibit 1 - Mon	thly Rate
Active & Retiree	\$455.00

Summary of active employees and retirees are provided in Exhibit 2 and Exhibit 3.

Exhibit 2 - Active Employee Data						
Headcount	Age (years)	Service (years)				
225	30	8				
110	40	14				
70	50	22				

Exhibit 3 - Retiree Data						
Headcount	Age (years)	Family Status	Spouse Age (years)			
40	70	Married	65			
30	70	Single	n/a			
70	80	Single	n/a			

Skyfall assists Live Twice in preparation of its financial statements for post-retirement benefits. The average cost of the retiree medical plan in Year 3, as per Skyfall's estimates, is given in Exhibit 4 below:

Exhibit 4 - Retiree Medical Data					
Age (years)	Annual Cost Per Person (\$)*				
60-64	10,200				
65-69	2,600				
70-74	2,950				
75-79	3,250				
80 +	3,750				

Another Day, Inc. (Another Day)

Another Day, located in Toronto, Ontario offers medical and pharmacy coverage to its 400 active employees and 200 retirees. The plan is fully insured with the employer fully subsidizing the premium for its retirees.

Exhibit 1 - Mon	thly Rate
Active & Retiree	\$185.00

A summary of the benefits plan is provided in Exhibit 2 below:

Exhibit 2 - Plan Provisions				
Benefit	Coverage Level			
Life Insurance	\$10,000			
Drugs	80% (\$1,000 annual OOP max)			
Hospital	100% (semi-private)			
Paramedical	100% (\$500 per calendar year per practioner max)			
Vision	100% (\$200/24 mth max)			
Dental	No coverage			
Emergency out of country	60 day max (\$500,000 lifetime max)			
Other Medical	100%			

Summaries of the employees and retirees of Another Day are provided in Exhibit 3 and Exhibit 4 below.

Exhibit 3 - Active Employee Data						
Headcount	Age (years)	Service (years)	Average Annual Salary (\$)			
100	30	10	50,000			
200	40	15	80,000			
100	50	25	100,000			

Exhibit 4 - Retiree Data						
Headcount	Age (years)	Average Annual Salary at	Family Status	Spouse Age (years)		
		Retirement(\$)				
50	70	80,000	Married	65		
50	70	80,000	Single	n/a		
100	80	80,000	Single	n/a		

Another Day employs Skyfall Canada to assist with preparation of its financial statements for the post-retirement benefit plan.

The average cost of the retiree medical plan in Year 5 was determined by the consulting firm as follows:

Exhibit 5 - Retiree Medical Data				
Age (years)	Annual Cost Per Person (\$)*			
60-64	2,000			
65-69	1,000			
70-74	1,100			
75-79	1,300			
80 +	1,500			

* Includes administration costs and taxes

Skyfall Canada also determined the actuarial present value of medical and life insurance benefits for active employees as follows:

Exhibit 6 - PV Future Benefits for Medical and Life Insurance Companies				
Age (years)	Medical Costs (\$)	Life Insurance (\$)		
30	5,000	1,000		
40	10,000	1,500		
50	20,000	2,000		