



Session 72 PD, Chronic Illness Acceleration Riders

Moderator:

James M. Filmore, FSA, MAAA

Presenters:

James M. Filmore, FSA, MAAA Jeffrey D. Koll, FSA, MAAA John Leo Timmerberg, ASA, MAAA



CHRONIC ILLNESS ACCELERATION RIDERS

SESSION 50PD (LIVE) & SESSION 72PD (LIVE + WEBCAST)

Jim Filmore, FSA, MAAA VP & Actuary, Individual Life Pricing

SOA Life & Annuity Symposium May 20, 2014



Agenda



- Overview/Definitions
- Risk Management Rider design

- Risk Management Underwriting
- Risk Management Claims
- Lessons learned
- Audience participation
- Conclusion



- What is a chronic illness acceleration rider?
- Typically involves acceleration of part of the base life death benefit upon:
 - Loss of 2 or more Activities of Daily Living (ADL's)
 - Severe cognitive impairment



- Chronic illness acceleration rider vs. LTC rider
 - Chronic illness falls under the NAIC Accelerated Benefits Model Regulation (Regulation 620)
 - If doesn't meet that criteria, then it defaults into the health regulations (and treated as LTC)
 - > For example, if the rider is designed as a "reimbursement type"



- Typically the policyholder is charged one of the following ways:
 - 1) Lien against death benefit
 - Often used for whole life contracts
 - 2) Separate rider premium
 - Potential additional source of revenue
 - Potential upside profitability
 - Lower exposure on portfolio
 - 3) Pay discounted amount of death benefit accelerated



- In the discounted method, rider payment reduces future payment upon death
 - Impaired life expectancy
 - Loss of interest
 - Loss of future premiums/COI's on portion accelerated
 - Expense/admin charges

Question: Would the policy otherwise have lapsed?

Risk Management – Rider design



- Common benefit limitations:
 - Annual \$ cap
 - Monthly % cap
 - Maximum lifetime \$
- Other design considerations
 - Maximum issue age

Risk Management - Underwriting



- Decline applicants current ADL or IADL dependent
- Determine likelihood of ADL-deficiency/cognitive impairment
- Ensure capture of relevant information
- Starting point = approved life application

Consider using a supplemental application for the rider

Risk management - Underwriting



Memory Problems TIA's

Strokes

Parkinson's

Huntington's

Multiple Sclerosis



Lung Disease + Oxygen

Diabetes + PVD

Degenerative Disc

Durable Medical Equipment Use



Head Injury

Shunt

Mobility limitations

Systemic Lupus

Thrombocytopenia

Spinal cord injury/spinal muscle atrophy

Risk Management - Underwriting



When should cognitive testing be performed?



Risk Management - Claims



- Periodic payments
- Confirm benefit eligibility
- Expertise in living benefit claims

Lessons learned



- Are loss of ADL's permanent?
 - Ex: Fractured heel claim on an otherwise healthy 40 year old male
- Physician certification isn't necessarily more accurate
 - "Hypertension" may be considered a chronic condition by a physician
- Life underwriters typically think in terms of mortality not morbidity

Audience Participation Time – First Question



Are these riders more costly on males or females (in terms of the loading expressed as a percentage of the base life mortality?

- 1) Males
- 2) Females
- 3) The same
- 4) Not sure (just tell me the answer)

Audience Participation Time – Second Question



Are these riders more costly on smaller or larger face policies (in terms of the loading expressed as a percentage of the base life mortality?

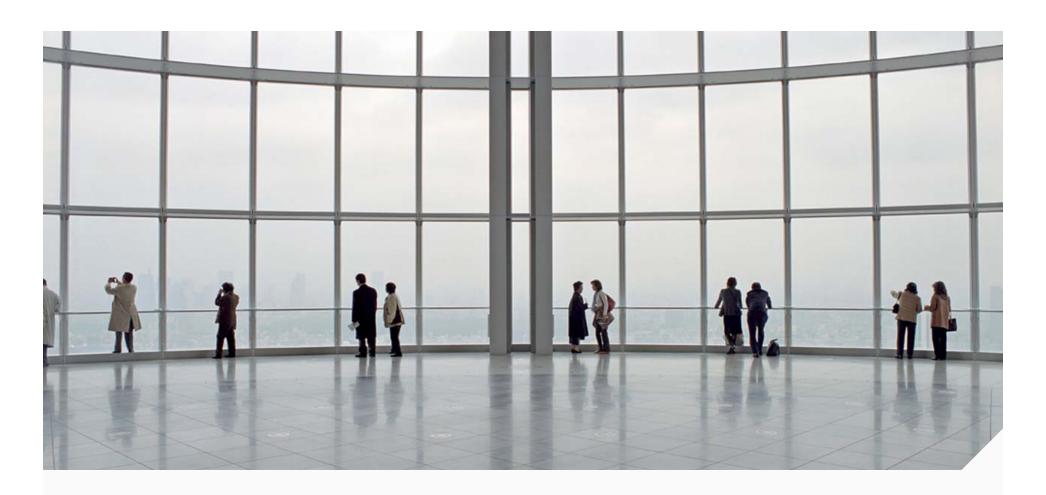
- 1) Smaller face policies
- 2) Larger face policies
- 3) The same
- 4) Not sure (just tell me the answer)

Conclusion



- Key items to focus on:
 - Risk Management Rider design

- Risk Management Underwriting
- Risk Management Claims



THANK YOU!

Jim Filmore, FSA, MAAA VP & Actuary, Individual Life Pricing

SOA Life & Annuity Symposium May 20, 2014





Chronic Illness Accelerated Benefit Riders

John L. Timmerberg, ASA, MAAA Vice President, Swiss Re

Life & Annuity Symposium 2014 Sessions 50, 72



Rider Benefit Costs

- Early Payment of Portion of Death Benefit
 - net cost: make a payment today as an advance of the death benefit
 - make a smaller benefit payment at time of death

• Foregone premiums:

- death benefit is decreased at time of acceleration payment
 - premiums are decreased in proportion (do not collect premiums from time of acceleration until time of death)
- for UL, WL, Term: (COIs, gross premiums, post-level term)
- Reinsurer may forego YRT mortality charges on Net Amount at Risk
 - costs for direct vs. reinsurer could differ substantially

Rider Benefit Costs

- Fundamental Assumption
 - chronically disabled policyholders have much higher mortality as compared to other active policyholders
 - at time of acceleration, life expectancy is relatively short

Pricing Risk

- higher than expected frequency of acceleration requests, by policyholders with relatively long life expectancies
- policyholder's accelerated death benefit payment request is discretionary
 - policyholders may maximize the utility of their benefits

"Do It Yourself" (DIY) Product Development and Pricing -References and Sources

- "Standards for Accelerated Death Benefits Compliance Checklist" (IIPRC-L-08-LB-I-AD-3)
 - http://www.insurancecompact.org/us_checklists/us_checklist_accelerated_death_ben efits_compliance.pdf
- "Standards for Accelerated Death Benefits" (from IIPRC) -http://www.insurancecompact.org/rulemaking_records/record_stndrds_acceldeathbe
 ns.pdf
- US Code 26 sect 101[g] http://uscode.house.gov/view.xhtml?req=(title:26%20section:101%20edition:prelim)%
 200R%20(granuleid:USC-prelim-title26-section101)&f=treesort&edition=prelim&num=0&jumpTo=true



DIY References and Sources (continued)

- US Code 26 sect 7702B http://uscode.house.gov/view.xhtml?req=(title:26%20section:7702B%20edition:prelim)%20OR%20(granuleid:USC-prelim-title26-section7702B)&f=treesort&edition=prelim&num=0&jumpTo=true
- Model Regulation 620, Accelerated Benefits Model Regulation from the National Association of Insurance Commissioners - http://www.naic.org/store/free/MDL-620.pdf
- For actuarial pricing assumptions "Long-term Care Experience Committee Intercompany Study Report 6, 1984-2007" -http://www.soa.org/Research/Experience-Study/Itc/default.aspx



Model Regulation vs. IIPRC (Compact)

- Comparison of Benefit Triggers
 - Model Regulation 620
 - continuous confinement (permanent)
 - medical condition requiring extraordinary medical intervention
 - terminal illness
 - other, as approved
 - Compact adds 7702B triggers to these
 - modified: requires condition to be permanent
- Filing through Compact facilitates approvals in some states where a regular filing would be disapproved



Incidence Rates

Incidence Rates

- probability that a policyholder is chronically ill and elects to accelerate their life insurance death benefit
- may vary by gender, attained age and other policyholder characteristics
- product type, chronic illness certification type (90 day vs. Permanent), other product characteristics or environmental factors (interest rates)
- Raw Data Sources: LTCI policy data
 - SOA's Long-term Care Experience Study, 1984-2007 (published 2011)
 - Appendix B-D, interactive pivot table
 - gender, age-at-claim grouping, underwriting type, elimination period, issue year cohort, policy duration



Incidence Rates (continued)
Adjustments or Additional Considerations

• Benefit Eligibility

- number who meet LTCI benefit triggers > the number that file a claim
- if a policyholder says that they cannot bathe or dress themselves, how do you prove that they can?

Adjustments or other Considerations

- attractiveness of cash payment without restrictions vs. reimbursement for services (LTCI)
- decrease in death benefit paid to beneficiaries vs. cash today
- life mortality underwriting and its impact on chronic illness incidence
- annual mortality improvement → chronic illness morbidity improvement
- presence of other accelerated payment riders

Disabled Life Mortality

- Disabled Life Mortality
 - mortality rates for chronically ill policyholders who have elected to take an accelerated death benefit payment
- Data Sources for constructing Disabled Life Mortality Rates
 - LTCI claim terminations: recovery, exhaust benefits, death
 - example of disabled life mortality study: remove recoveries from policies with unlimited benefits; only deaths remain
 - SOA LTCI Experience Study tables J-7 (new)
 - mortality rates for LTCI claimants
 - by gender; grouped by age at time of claim; by claim duration
 - pattern of Disabled Life Mortality Rates Convex
 - ratio of cognitive to non-cognitive claims increasing with claim duration



Disabled Life Mortality Adjustments or Additional Considerations

- Mortality in the first claim duration
 - adjustment for presence of terminal illness rider
 - impact of certification that the condition is expected to last at least 90 days vs.
 permanent
 - removes short-duration LTCI claims which end in death (and recoveries)
 - potential for policyholder anti-selection at time of acceleration
 - policyholders with longest life expectancy will want to accelerate their death benefit
- Variations by type of chronic illness rider
 - incentive to accelerate vs. not
 - claim begins early; will last longer

Underwriting

At Issue

- May impact both Incidence Rates and Disabled Life Mortality Rates
- Mobility
 - spine, joints, arthritis
 - joint replacement (90 day vs. Permanent Certification); back surgery
 - supplemental application (seven or eight questions) effective?
- Stroke
 - life underwriting should mitigate this risk
- Cognitive or dementia
 - desire sensitive test for early identification; value at 55 and over
 - full delayed word recall, over phone; sometimes face-to-face
 - intrusive; another hurdle to completing the sale; expensive



Risk Control

- through Product structure

- Amount of Death Benefit Available to Accelerate
 - lifetime maximum as % of death benefit; or increasing with attained age
 - annual limit as percentage death benefit (20% 25%)
- Acceleration Payment "dollar for dollar" or discounted?
 - dollar for dollar with death benefit reduction; example: death benefit reduced by \$50,000, acceleration payment of \$50,000
 - discounted amount of death benefit reduction
 - objective method based upon DLM tables (gender, age at claim); may be updated as experience emerges
 - more subjective, based upon medical condition, gender and age at acceleration

Reserves

- Discounted Benefit version of rider
 - rider has no premium cost ("discounted" accelerated payments pay for cost) but, does modify cash flows
 - "provide actuarially equivalent benefits", no additional reserves
- Benefit Reduction version ("dollar for dollar" accelerated payments)
 - additional premium for rider; incremental claims due to rider
 - model base plus rider jointly, to determine cash flows for reserve factors
- In practice, base product reserves released as death benefit decreases

Monitoring Performance - Financial Reporting

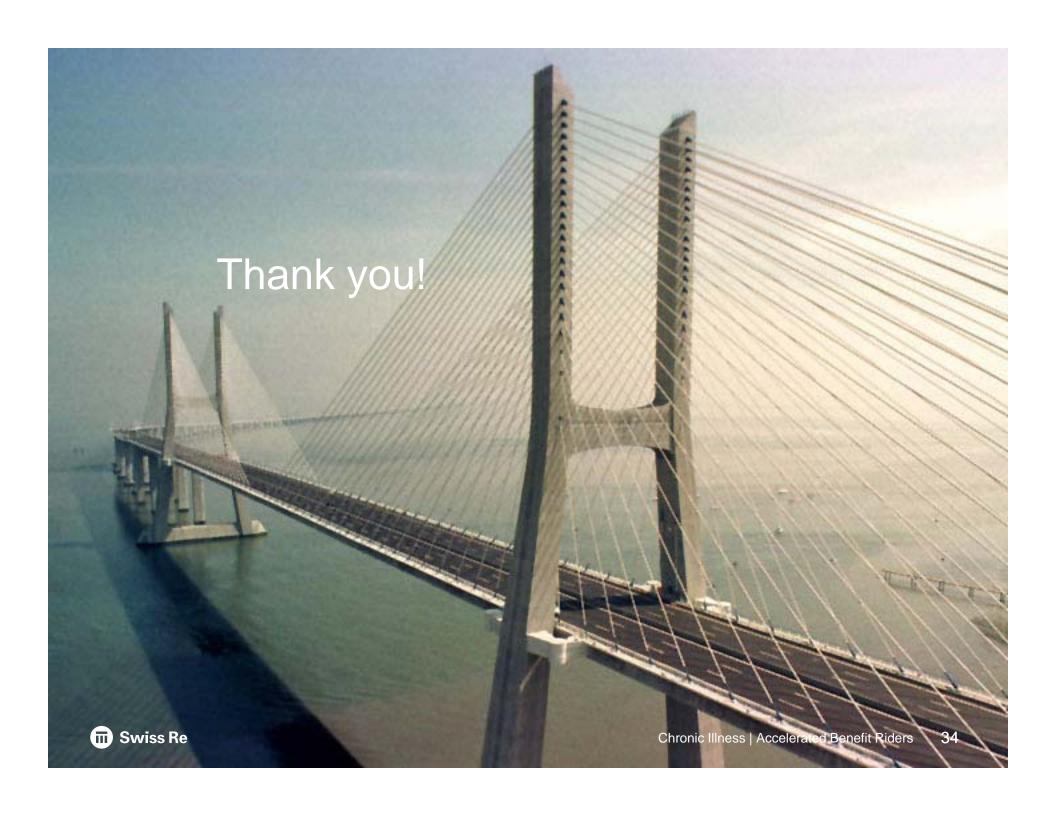
- Financial Reporting
 - Advance of Death Benefit
 - lump sum vs. monthly (generates claim reserve)
 - Decline in paid premiums
 - Release of policy reserves as death benefit is reduced
- Tracking Disabled Life Mortality Experience
 - are the mortality rates for chronically ill policyholders tracking your assumptions?
 - time to update your table for new accelerated benefit payments (Discounted Benefit version of rider)?
 - are you experiencing anti-selection at time of acceleration?

Summary

Chronic Illness Accelerated Benefit Riders

- Rider Benefit Costs
 - advance payment of death benefit; foregone premiums
- References and Resources
 - product development and actuarial assumptions; starting point
- Actuarial assumptions
 - LTCI experience, with a number of important adjustments
 - policyholders will maximize the utility of their benefits
- Underwriting
 - conditions that could result in an early accelerated benefit payment request, by policyholder with a long life expectancy
- Financial Performance
 - reserves and monitoring impact of accelerated payments; disabled life mortality





Legal notice

©2014 Swiss Re. All rights reserved. You are not permitted to create any modifications or derivative works of this presentation or to use it for commercial or other public purposes without the prior written permission of Swiss Re.

The information and opinions contained in the presentation are provided as at the date of the presentation and are subject to change without notice. Although the information used was taken from reliable sources, Swiss Re does not accept any responsibility for the accuracy or comprehensiveness of the details given. All liability for the accuracy and completeness thereof or for any damage or loss resulting from the use of the information contained in this presentation is expressly excluded. Under no circumstances shall Swiss Re or its Group companies be liable for any financial or consequential loss relating to this presentation.



Jeff Koll

Marketing and Selling Chronic Illness Riders





Jeff's Perspective on this Product

Employee Benefits – Worksite/Voluntary Sales

Small, simple policies

Rider on Life Plans – Whole Life, ISWL, and UL Variations of Chronic Illness Riders

- Base Accelerated Death Benefit Rider
- Restoration of Benefits (Life Policy Death Benefits) Rider
- Continuation of Benefits Rider
- Restoration and Continuation of Benefits Rider

Recent Risk Reviews of this Business



Why?

Need for Chronic Illness Coverage

People purchase this coverage because.....

How does the sales pitch sound?

Key Differences between Rider and Stand Alone

- Product
- Target Market
- Sales Process
- Underwriting





Polling Question

Who should be purchasing Chronic Illness Riders?

- 1) Everyone who can qualify for coverage
- 2) Older Americans (age 65+)
- 3) People who can't afford stand alone LTC
- 4) Everyone who buys the base life plan
- 5) Nobody, the product cost too much



Who?

Who will purchase?

Who should be purchasing Chronic Illness Riders?

- 1) Everyone who can qualify for coverage
- 2) Older Americans (age 65+)
- 3) People who can't afford stand alone LTC
- 4) Everyone who buys the base life plan
- 5) Nobody, the product cost too much



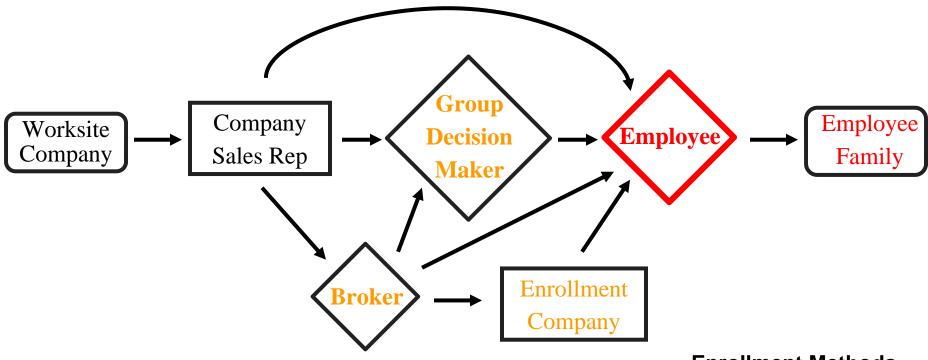






How?

Worksite Distribution Model



Who is buying the product?

Enrollment Methods

1 on 1 – face to face Group meeting Call center Self enroll



Chronic Illness Riders Sales Results

How the rider is sold with the base life product will drive sales results

- Chronic Illness Rider Purchaser Demographics
- Underwriting approach for the rider







Polling Question

How does the Marketing/Sales approach with a rider **Impact** the Persistency, Morbidity and Investment Experience?

- 1) Low impact Experience similar to stand alone LTC plans
- 2) Medium impact Experience different than stand alone LTC, but not in line with base life plan
- 3) **High impact** Experience tends to follow base life plan experience
- 4) I don't know the impact



Impact?

Marketing/Sales Impact?

What is the Marketing/Sales Impact on Experience?

- 1) Low impact Experience similar to stand alone LTC plans
- 2) Medium impact Experience different than stand alone LTC, but not in line with base life plan
- 3) High impact Experience tends to follow base life plan experience
- 4) I don't know the impact





Questions

