Operational Challenges for Insurers During the Coronavirus Outbreak

By Christopher Hessenius

The COVID-19 pandemic is expected to have a large impact on the life insurance business. The most evident impacts will be an increase in claims and the effects of low interest rates. Increased claims are expected to arise from both COVID-19 complications and deaths from critical illnesses for which treatments could not be provided. Declines in U.S. Treasury rates have meant that insurers will be reinvesting at lower interest rates, causing further strain on balance sheets.

These two phenomena are the ones that actuaries are most likely to be familiar with, as they will directly impact the financial modeling that actuaries are accustomed to performing. However, the coronavirus outbreak has also brought significant impacts to operations for life insurance companies. The ability to collect evidence during the underwriting process is the first area where companies have seen meaningful challenges to operations. This is causing companies to make short-term changes to underwriting rules and requirements to address issues such as an inability to collect fluids and perform paramedical exams (paramed) due to quarantining and social distancing. In addition, the economic environment has resulted in a strain on many Americans’ budgets, creating the possibility of an increase in lapses. Many companies have responded by giving customers options should they encounter financial hardship.

UNDERWRITING AND EVIDENCE COLLECTION

A mainstay of life insurance over the past few decades has been the collection of evidence during the application process to assess the mortality risks of individual applicants. The two largest pieces of evidence have been paramed exams, with collection of vital signs (build, blood pressure, etc.) and fluids for testing, and attending physician statements (APSs), particularly for cases with large face amounts and/or older ages. Although there has been a shift in recent years to accelerated underwriting programs (AUW), in which underwriting requirements are waived for certain applicants, these programs have been limited to certain issue ages and/or face amounts and enable only a portion of those eligible to qualify without traditional underwriting requirements.

Paramed exams and fluid collection have generally been done at the applicant’s home or office, where he or she is visited by a medical professional. COVID-19 has made this approach challenging because of social distancing guidelines. The traditional visit for fluid collection is nearly impossible, as neither applicants nor examiners want to engage in this way. At the same time, there may be delays obtaining APSs, as many physician offices are open for urgent care only and, therefore, are taking longer to respond or do not have the available resources to reply to requests from life insurance companies. To overcome the limited ability to collect labs and APSs, carriers are taking a variety of approaches.

Expansion of Accelerated Underwriting Programs

Some carriers have taken the approach to increase the maximum face amounts that qualify for their AUW program. For example, a carrier may increase the maximum face amount from
S$1.0 million to $3.0 million. In these cases, many carriers have tagged the applications and will monitor them on a post-issue basis by ordering APSs and follow-up checks for prescription history as well as MIB follow-ups. Increases in maximum issue age, however, have not generally been considered by carriers. Maximum ages generally range from 60 to 65 years in the industry. Because of concerns with higher COVID-19-related mortality at older attained ages, these age limits for AUW programs have largely stayed in place or been reduced.

Substitution of Evidence
Another approach companies have used is to accept alternative forms of evidence, particularly for parameds. The typical approach is to accept the applicant’s lab work from recent doctor’s visits (within the past 12 to 24 months), so long as this lab work or APS can be sent to the life insurer. However, companies have been cautious in implementing this approach. Since lab testing done for wellness visits does not always measure the same components that are used for insurance purposes, there are potential gaps in information. In addition, there is further concern with substituting evidence at higher attained ages, where labs provide more protective value than at younger issue ages. To combat these concerns, a few carriers have limited the risk classes that are available for applicants for whom all evidence is not available, such as limiting all offers to the standard or residual risk class. At the same time, carriers may offer the opportunity to qualify for a better class later, once full evidence can be obtained.

Incorporation of New Evidence
The last area where life insurance companies have been making some changes is the incorporation of new evidence sources into their underwriting programs. This approach takes advantage of the emerging vendors and tools that have hit the market recently. One promising area has been electronic health records (EHR), whereby insurers can obtain access to digital medical records for an applicant, giving them the ability to waive the APS requirement. In addition, medical billing and lab history data can provide a history of procedure, treatment and diagnostic tests and be additional sources of information. Carriers that have already incorporated this new evidence are seeing the benefits, and there has been an increased number and sense of urgency of companies now exploring and signing on with these vendors.

Other Underwriting Considerations
The current pandemic introduces two additional underwriting considerations. First, COVID-19 has necessitated changes to the application. Many carriers have added questions, where permissible, particularly around recent or upcoming travel, recent or current symptoms, exposure to the coronavirus and so forth. This has required carriers to quickly change their processes for information intake.

Second, worries about antiselection have risen, as some customers will seek to purchase short-term coverage or will stack coverage (i.e., obtain insurance policies at more than one carrier in a short period of time). To avoid this, companies have taken a few approaches. One measure has been the suspension of temporary insurance (i.e., insurance covering the applicant between application and issue), as there may be customers who are only looking for short-term coverage and never plan to complete the underwriting process. Companies are also watching insurance activity, particularly right before issue, to ensure customers are not stacking. Further, carriers are requiring a signed statement of good health at time of issue, adding to the amount of information the carrier must gather.

IN-FORCE CONSIDERATIONS
The environment brought on by COVID-19 is also beginning to impact in-force policies. As unemployment rises, there are likely to be customers who struggle to pay their premiums. Companies have been proactive in addressing these concerns by extending grace periods. Companies are also looking at changes to their reinstatement process to address concerns with antiselection of clients who recently lapsed.

Grace Period Extension
The grace period is defined as the period between the due date of the last required premium payment and the time at which the contract is officially terminated. The purpose of the grace period is to give customers the opportunity to catch up on their payments before the contract lapses. Individual states have different regulations regarding the minimum length of the grace period allowed, but general practice at insurance companies has been a 15- to 30-day grace period (except where individual states require longer periods). During COVID-19, however, companies are extending their grace periods to 90–120 days, provided customers can show they have been negatively impacted by the recent economic environment. Many companies have taken a proactive approach, but some states have issued mandates that grace periods be extended. For example, New York has stipulated that grace periods be 90 days when customers can demonstrate that they face financial hardship.

On top of extending the grace period, some carriers are considering, at the prompting of state regulators, offering customers options as to how they can maintain their coverage. For example, New York has asked its carriers to allow for
premiums due but not paid during the 90-day grace period to be paid over the course of the following year in 12 equal monthly installments.

Building these new business requirements into administration systems and operational manuals has required insurers to be nimble and quickly shift resources to these projects.

**Reinstatement Processes**

The changes made in the new business process have been extended to the reinstatement process, and carriers have increased the level of scrutiny on reinstatement applications to protect against antiselection risk. Reinstatements occur when customers seek to reestablish insurance after they have terminated their contract. Many carriers allow for reinstatements to occur if a customer (a) makes up the premiums due had the contract not terminated and (b) is still eligible for insurance. Eligibility requirements vary depending on carrier and time since reinstatement; however, they are similar to underwriting requirements and seek to protect carriers against unhealthy lives selecting against them.

During the COVID-19 pandemic, the reinstatement processes will need to be closely monitored. COVID-19 appears to have a higher impact on older age mortality, requiring that carriers watch for an increase in reinstatement requests at these ages. In addition, carriers will need to ensure that necessary underwriting evidence collection can be done in this environment. Some options considered include running prescription checks and tele-interviews to ask customers COVID-19-related questions.

**CONCLUSION**

The impacts of COVID-19 will surely be felt by insurance companies for years to come. From increased claims to the impact of historically low interest rates, the industry will see signs of financial strain. But the operational challenges discussed in this article, collecting underwriting evidence and extension of the grace periods, will hopefully be temporary. There is optimism, however, that some of the obstacles in evidence collection seen today will increase innovative activities as the industry continues to rely less on fluids during the underwriting process. COVID-19 might then be an inflection point in that there will be an acceleration in the industry for the digitization of processes and acceptance of new sources of underwriting information.

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By Blake Hill

All around us are platform businesses, and most of us are participants in several, sometimes without even knowing we are powering this business revolution. As actuaries and insurance industry leaders, we intuitively understand a platform business model, one that brings many individuals together to create value. Insurance has been a platform business from its beginning! Luckily for insurers, the platform business is an evolution, though it may still feel like a revolution to many.

The need for the rapid evolution, or maybe a revolution, of the insurance business platform is presented herein. As you may suspect, the key drivers are technology combined with rapid improvements in customer experience, or more accurately, the expectations of the customer's experience. For insurers that have begun the transformation to a digital business, they will recognize the opportunity to take advantage of their head start with a platform business, while others will see the evolution as an opportunity to “leapfrog” into the digital business leadership. Becoming digital without intending to evolve into a platform business will result in those insurers suffering the same fate as the many businesses that have been revolutionized by platforms recently.

GETTING INSURANCE UNSTUCK
If insurance is a business platform already, why then is there a need for an evolution, you might be asking. It is no secret that life insurance ownership has been stagnant for decades and that, relative to the market opportunity, life insurance has declined. Health insurance, by comparison, is facing a somewhat different challenge: although it has been able to grow, its challenge is to remain economically viable for the customers that need it most. Like most industries that experience a decline in growth or escalating input costs, the focus of the operations has tended to look inward to improve profitability and contain costs. For insurance, this means lowering the risk and expenses. Focus on greater understanding and enhanced pricing of risk has led to more and more data used in underwriting, which means more and more invasive practices for the customer. It can be argued that this inward focus exacerbates the decline in the long run, by excluding more potential customers as well as missing opportunities to invest in the growth of the business.

The good news is there comes a point of inflection, where the decisions of the past that have led to the current state are reevaluated and a change in direction is needed to break out of the cycle; insurance appears to be in this phase now. The underwriting process has been targeted to be simplified or accelerated, which may allow more customers to participate. Insurers have begun to invest more in the customer experience to drive growth. However, these changes should be thought of as just the beginning, as they are unwinding some of the past restrictions and allowing insurers to catch up to the expectations that customers have learned to expect from other industries. Insurers now understand that they need to look beyond their own industry to realize their full potential. As Bridget van Kran ling en of IBM stated, “The last best experience that anyone has anywhere, becomes the minimum expectation for the experience they want everywhere.”

INNOVATIONS OUTSIDE OF INSURANCE
Thinking of your own experience as a customer, you surely can relate to how a good experience in one area leads you to frustration, by way of contrast, with a completely different product or service and leaves you muttering, “Why can’t this work like … ?” Platforms have allowed the customer experience to be simplified, to focus on what is pertinent and, simultaneously, to provide transparency. This simplification and transparency are counter to the backdrop of the customer’s overwhelming access to information and barrage of influences such as marketing.

The ability to bring simplification and transparency is only made possible by a key third aspect of many of the most powerful platforms: the ability to bring advice, recommendations and credibility. Whether it is Spotify or Netflix recommending entertainment in a vast sea of content, or Facebook or LinkedIn highlighting which of your many connections’ posts are most
relevant, we all have become appreciative of this valuable aspect of a platform.

A fourth aspect of the platform is the ability to work with and among competition. Rarely are such divisions helpful in achieving simplicity, transparency and reliability. Imagine if your Apple device was still a locked ecosystem and did not allow you to check your Gmail. There may remain reasons to exclude competition in areas of key differentiation, but this bears the risk of also becoming the leading reason for desertion of a platform if the barrier is too high. Once again, insurance has only to evolve its business, as it has a long history of working with competitors to develop a marketplace as well as with partners to provide customers with advice. The evolution for the insurance platform business, then, needs to focus on simplicity, transparency and leveraging their customers’ trust.

Simplified and Accelerated Underwriting Is Not the Goal, It Is Just the First Step
Improving the customer experience today for most life insurers includes the underwriting phase. This is a good place to start, as it is likely one of the biggest hurdles and pain points for a customer. For health insurance, making increasingly complex coverage easier to understand is a major focus. Improvements in the customer experience in these areas are applauded, but they only begin to tackle the opportunity to nurture the customer. Customers come to insurers looking for a trusted partner, one that will provide them security and peace of mind. Insurers have the opportunity to build on this trust as the core value of a business platform. To understand customer needs, and to enable continuous customer feedback to anticipate their future needs, insurers will require a platform that expands beyond the single transaction view of the product and customer. Insurers can evolve toward this within their existing digital transformation, or in many cases can make this a core element of their business today and build the digital framework necessary to support this in parallel. Becoming digital is table stakes, but left on its own, it has the potential to accelerate product commoditization unless the accompanying value of customer trust is enhanced simultaneously.

Remember When Amazon Just Sold Books?
An insurance business platform should be omnichannel and needs to build an ecosystem to support the customer, as trust is the value that brings customers, products and service providers together. The platform also has far greater potential to serve the needs of customers beyond insurance coverage. What products and services should be included in an insurance business platform? Well, that depends. It depends on what the insurer sees as its role in owning and participating in a business platform, but more important, it depends on what the customers want. Most platforms start small and grow, with a continuous customer feedback loop to help inform the steps and potential changes in direction. Incremental growth with scalable services is what unleashes the ultimate power of a platform, and customer data and engagement are the fuel for that growth.

To enable the platform to exceed the transactional relationship, and to build engagement, the platform needs to offer a unique value for customers. A platform that consists of insurance coverage information, billing details and addresses is just an information portal and does not offer the engagement and resulting data that are needed to create the value streams of a platform. Imagine if Amazon had built a platform that only showed you what books you had bought, allowed you to buy more from a vast library of titles and confirmed the shipping address for those purchases. Imagine if it had not built out the “Recommended for You” feature, that it hadn’t enabled customers to provide feedback on the goods they bought to help fellow consumers, that it hadn’t expanded into adjacent products and services. Amazon did not instantly become a massive organization that operates in several consumer markets, and it did not stop with a digital transformation to just make buying books easier. Insurers will need to expand their customer relationship beyond the transaction, to a place where customers will expect their insurer to play a vital role in their lives—and that needs to be centered on trust.

Imitation Is the Highest Form of Flattery
If being a digital insurer is essential today, then participating in or owning an insurance platform is arguably the next business

essential. Platform-based businesses already make up most of the largest companies by market cap globally, each with millions of consumers, and they will continue to prosper and grow into the future. It may seem daunting to consider the scale of these platform owners, but in an ecosystem, platforms can overlap and add value for each other. The good news is there are insurers already paving the way and providing examples and pathways to consider in building platforms that engage customers beyond insurance coverage.

Although there are several insurers to consider as examples, one that stands out for its truly unique vision is Sompo Himawari Life of Japan, which is moving toward the realization of “A Theme Park for Security, Health, & Wellbeing.” This is a bold vision that demonstrates an evolution well beyond the traditional role an insurer provides and leverages the power of a platform to solve a customer need. The platform is built on the value of customer trust, not only providing products and services in times of adverse events, but also partnering with customers to protect them in advance of such events. This is a common theme for insurer platforms: for auto, the idea of supporting safe driving; in home and property, the idea of reducing risks such as flood and fire; and in life and health, the idea of maintaining and improving health. All of these demonstrate a platform that expands beyond coverage and connects with customers where they are seeking support. Insurers are building these platforms to broaden their offerings and expand their value to customers. Although many of these insurance business platforms offer similar products and services as they embark, they are able to use their platforms to differentiate their offerings by focusing on individual customer needs and continuously gather customer feedback. Relative to insurers that have yet to start a platform, the differentiation is in having a platform.

PRODUCT DEVELOPMENT IN AN INSURANCE BUSINESS PLATFORM

The role of product in a business platform will also evolve, as it may expand what goods and services are included in the development and maintenance of the product area. It will also introduce an interaction of these goods and services and how that interaction impacts the traditional insurance product. For example, in auto, where a safe driving program is included, how is the program integrated into the existing auto coverage product? The same concept can be considered for life, living benefits, long-term care, disability, annuity, private health and other types of products offered by insurers.

What is exciting for most product teams is the ability to connect with customers, gather data and drive insights from them—a new frontier for many insurers. Product teams have often been at the leading edge of change within insurers, and now they have an opportunity to lead their organizations into the next business essential! To avoid a revolution in insurance, the product teams need to embrace rapid evolution now. Starting is the key. Then you will learn from continuous customer feedback where to grow, where to shrink and how to provide engagement that nurtures customer trust.

ENDNOTE


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Effects of Experience Rating on COLI/BOLI Programs

By Matthew B. Schoen and James P. Van Etten

Editor’s note: This article originally appeared, with minor differences, as the first article in a three-part series on corporate-owned and bank-owned life insurance (COLI/BOLI) programs. Look for the second article, “Managing Mortality Costs within COLI/BOLI Programs,” in a future issue of Product Matters!

This article is designed from the point of view of the purchaser of corporate-owned life insurance (COLI) and bank-owned life insurance (BOLI) policies. It will:

• provide an overview of the differences between experience-rated and non-experience-rated product designs; and

• describe ways to ascertain exposures to excessive mortality-related costs and how to measure the potential extent of those exposures.

Many owners and sponsors of permanent policies have needlessly been exposed to what might best be described as appallingly large exposures to excessive mortality costs. These phenomena raise a few questions: How did this happen? Who is responsible? In this article, we posit a few possible explanations for the prevalence of these vulnerabilities.

PRICING AND RISK

We begin the subject of pricing as viewed from an insurer’s perspective with some fundamental concepts. When an insurer writes insurance coverage, there is a risk that claims will be larger than premiums, so there could be losses. Therefore, for the insurance market to function, the insurer must have some capital that will be used to cover claims when there are losses. This capital is at risk. Before an investor will supply this capital, there must be an opportunity for profit, or return on capital.

The amount of capital required and the desired rate of return will depend on, among other factors, the degree of risk.

In light of these principles, we start our discussion of pricing with the premise that insurers will price their products so that the amount charged is sufficient to cover their expenses, including the costs of paying claims, and provide a reasonable return on their capital.

When we look at the simple example of term life insurance, the insurer must cover its operating expenses and life insurance claims costs. The amount of claim payments is not knowable in advance. In our example, the insurer will base its price on the claims it expects to pay, using a mortality table that is based on experience that reflects the risks it is undertaking plus its anticipated expenses, plus a margin for profit. On average, and assuming its table is accurate, the insurer knows that by using this approach it will lose on some insured populations and profit on others in any given time period. The insurer will try to set its pricing factors, including its profit margin, at a level where it can achieve its desired rate of return over the long term.

Many life insurance products have an insurance component and a savings or cash value component, so the insurer must consider the risks related to surrender or withdrawal of cash values in addition to the cost of paying expected claims, or pure insurance risk. Cash value life insurance products typically have mortality charges that are based on expected death claim payments, much like a term life insurance product. If they are offered in the insurer’s separate account, it is typical for the investment performance of the separate account, less asset-based charges, to be earned by the policy cash value. If they are offered in the insurer’s general account, the insurer incurs investment risk and declares the interest to be credited to the policy cash value on a periodic basis. Different insurers may have a different view of the risks attendant to the different elements of the policy, and therefore, they may develop different pricing factors to cover the risks (and related profit margins). Additionally, insurers may look at external factors; for example, because insurance is offered in a competitive marketplace, the pricing offered by competitors must be considered because it will impact the product’s sales results.

For some products, the price is fully defined when coverage is issued. There are also instances where price is determined within defined limits at the issue date, but the insurer reserves the right to reprice within those limits. As one example, an insurer may
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define a current schedule of cost of insurance (COI) charges and reserve the right to change rates subject to a guaranteed maximum schedule or table of rates. There are also pricing factors for some products where the insurer is able to reprice with no explicit limits on repricing.

In the rest of this article, we base our discussion on the pricing elements that are related to charges for mortality costs. We also assume that the charges for mortality costs are determined purely on the basis of the costs of paying expected claims, together with related expenses and profit margins, without considering the relationship to other pricing factors or to external factors (such as competitive position) that may influence overall product pricing.

WHEN EXPERIENCE RATING APPLIES

When experience rating applies, the insurer will recognize the experience of the insured population or group being evaluated. When this is done, the insurer typically has a basic table of charges that it applies to all groups, and the company performs a periodic repricing evaluation of the experience of each group. When the experience for a group is favorable to the insurer, a portion of the overcharges are refunded to the policyowner as experience credits and/or the favorable experience results in lower future charges. When the claims for the group have exceeded charges, typically the future charge levels will be increased (subject to guarantees). Because there can be variation in experience from group to group, the insurer will generally charge a higher initial rate for experience-rated business than it would charge for business that consists of many groups that are not experience rated; this approach increases the probability that the charges for a group will be adequate to cover the claims for that group. The experience-rated customer may see larger charges at the point of sale, but because of experience credits, it may experience lower net charges over the long term.

Different insurers will have different techniques for evaluating experience-rated contracts. Under one technique, the insurer establishes a notional account for the policyowner. Credits to the account occur equal to the mortality charges levied against the contract. Deductions from the account are made at the time the claims are paid. Charges for target profit margins or to cover certain costs are also deducted from the account. Interest is credited to the account balance. From time to time, typically once per year, the insurer will evaluate the size of the balance in the account and its estimate of existing claim liability. Then, it will decide whether to allow an experience credit of net overcharges, increase the basis for future charges because it has not been charging enough to cover claims costs, or let the pricing stand without any adjustments. For these types of contracts, the insurer will generally also make a final determination after all coverage has been terminated and all claims have been paid. If there is a positive balance in the account, it will result in final experience credits. If the account has a negative balance, there will be no experience credits and, in general, the insurer will be unable to recover its net losses. Under experience-rated contracts, the insurer’s potential profits from mortality are limited to the profit margins used in determining the balance in the notional account.
As noted earlier, each insurer may have its own variation in techniques. The techniques may involve adjustments in future charges in lieu of determining experience credits. We have seen versions in which the notional account earns separate account performance. For business that is participating, the credits may be in the form of policy dividends. At the time coverage is issued, for experience-rated contracts it is customary for the insurer to provide the policyowner with a description of the approach to be used in repricing, and in general the insurer will make commitments on its future use of this approach. For the remainder of this article, we will refer to the notional account as the “Mortality Reserve.”

WHEN EXPERIENCE RATING DOES NOT APPLY
When experience rating does not apply, the insurer may choose to establish its charges and perform repricing on the experience of a segment of its business or on the business issued in a given time period, or both. For example, it is common for an insurer to use the same pricing for all of its COLI or BOLI business issued on a guaranteed issue basis in a given year or group of years. It may choose to use a technique similar to that used for experience-rated business, but applied to the “pool” of business in the defined segment. As a result of this pooling, the same charges or basis of charges would apply to all insured groups without regard to the experience of each group. Some groups will have lower mortality experience than average and others will have higher mortality experience than average. The insurer is concerned about its aggregate level of charges more than it is concerned with the experience of a single group. Losses it experiences on some groups may be made up by gains it experiences on other groups. At the time coverage is issued, the insurer may make a commitment on the approach to be used in repricing. Absent such a commitment, it may be possible for the insurer to increase its mortality charges, either to increase its profitability or to cover other costs.

CONSEQUENCES WHEN EXPERIENCE RATING DOES NOT APPLY
Regardless of the mechanics, when no experience-rating technique applies:

• policyowner performance is less predictable (i.e., deviations from the policyowner’s expected earnings are larger) because earnings are impacted by each claim as it occurs;

• there is potential for relative gains (or losses) if the policyowner’s mortality claims are higher (or lower) than COI charges, resulting in relatively volatile earnings; and

• any insurer repricing actions (or lack thereof) may be inconsistent with the claims experience of a single policyowner.

ECONOMIC ADVANTAGES OF EXPERIENCE RATING
Provided minimum case size criteria are satisfied, a purchaser can decide whether to seek an experience-rated contract. Some insurers offer experience rating for cases as small as 50 insured lives. So, above a minimum case size, a policyowner can choose whether to use experience rating either by selecting from options made available by one insurer or by selecting a different insurer.

Generally, purchasers do not know in advance whether their mortality experience will be higher or lower than the mortality expected by the insurer when setting its charges. As such, there is a risk that the mortality charges will exceed the benefits received if actual mortality is relatively low. This risk is counterbalanced by the opportunity to receive benefits that are greater than the mortality charges if actual mortality is relatively high. None of the employers we have encountered have ever expressed a desire to profit by employees dying faster than expected. But in the course of evaluating their purchase, many employers have analyzed the impact of employees dying slower than expected. In fact, one of the reasons our clients have sought out experience-rated plans is to reduce the risk of losses that would result if they purchase a non-experience-rated plan and mortality is lower than expected. For a typical well-funded plan, the COI charges represent the equivalent of 100 to 150 basis points in average rate of return over the life of the program; thus, a mismatch of only 10 percent between actual and anticipated benefits may be equivalent to 10 to 15 basis points. Uncertainty of this size is large in comparison to the advantage anticipated in making a purchase decision. This uncertainty is reduced in an experience-rated plan.
For smaller cases, it may take many years before the experience results become statistically significant. In these cases it is likely to take a number of years before any experience credits are earned, so some of the positive benefit from experience rating may be deferred.

**EXCESSIVE COSTS DEFINED**

We exclude from our definition of excessive COI costs increases in mortality-related charges that transpire solely because of unfavorable mortality experience. Therefore, if mortality experience is substantially worse than “reasonable” expectations set by the actuaries at time of policy issuance, the insurer is entitled to increase COIs accordingly—bearing in mind that the increase should be consistent with future expectations—but only if it is not seeking to use the occasion to disguise increasing overall profitability. What then are we talking about when we say “excessive” COI costs? Although there are several locations in the sand where one could draw a line, we focus on two upper boundaries that should, at minimum, be considered and understood by purchasers. The first, and most egregious, is when the insurer exercises its discretion over mortality-based charges solely to increase its profitability on one or more blocks of policies. The second occurrence is when the insurer increases COI charges to offset non-mortality-related deficits to approximate its original overall profitability targets. The latter instance can be as vexing as the first for policyowners.

Regardless of the source of “excessive COI costs,” the impact is limited under experience-rated plans because most of the increase in COI cost is added to the Mortality Reserve, which is ultimately returned to the policyowner. The exposure is far larger with non-experience-rated plans, because the entire increase in COIs inures to the insurer. In both cases, exposures can be quantified, and it is highly advisable for policyowners to understand the extent of their existing exposures as well as potential exposure under contemplated purchases.

To demonstrate the potential impacts, we modeled a sample case under a number of scenarios. The characteristics of the sample case include:

- 600 lives are insured;
- coverage has been in force for 10 years;
- the policy is no longer premium paying, and the aggregate cash value is approximately 140 percent of premiums paid;
- the aggregate coverage amount is approximately 220 percent of cash value (this is close to a fully paid-up plan);
- the insureds’ ages currently range from about 40 to about 70; and
- the cash value accumulation test is used for compliance with Section 7702 of the Internal Revenue Code.

The sample case was modeled using both a non-experience-rated approach and an experience-rated approach, under scenarios in which the COI rates are continued unchanged as well as scenarios in which COI rates are increased to guaranteed maximum levels. The model incorporated the following assumptions (for simplicity and ease of analysis, the product illustrated has a very streamlined policy charge structure):

- Deaths (at the assumed mortality rate) occur at the end of each month.
- Assumed mortality is at 45 percent of the 1983 GAM table.
- COI charges are deducted from policy value; the rates used vary by scenario; and the baseline COI rates are at 58 percent of the 1983 GAM table for non-experience-rated plans and at 65 percent of the 1983 GAM table for experience-rated plans.
- Investment performance is at 4 percent annually, and it is added to policy value with no asset-based charges. (This is equivalent to a general account product with interest credited at 4 percent annually.)
- For experience-rated plans, interest is credited to the Mortality Reserve at 3.50 percent annually.
- For experience-rated plans, a retention charge of 5 percent of the 1983 GAM table is deducted from the Mortality Reserve each month.1
- For experience-rated plans, the opening (end of year 10) Mortality Reserve is assumed to be $3.8 million. This is somewhat less than the target reserve level at that time. The target reserve is the greater of (a) two years of COI charges (defined as 130 percent of the 1983 GAM table rate applied to the current amount at risk for each insured), and (b) the sum of the two largest net amounts at risk for the case. If the initial Mortality Reserve exceeds the target, there would be experience credits at the beginning of the illustration, but that did not occur in the examples provided.

The distinctive characteristics and assumptions for each of the scenarios that were run are as follows:

- Scenario 1N provides a baseline for non-experience-rated plans. It used the previously stated assumptions for all plan years.
- Scenario 1E provides a baseline result for experience-rated plans. It also uses the previously stated assumptions for all plan years.
- Scenario 2N is like Scenario 1N except that COI rates are increased to guaranteed maximum levels at the beginning of the illustration (at the beginning of policy year 11).
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- Scenario 2E is like Scenario 1E except that COI rates are increased to guaranteed maximum levels at the beginning of the illustration (at the beginning of policy year 11).

- Scenario 3N is like Scenario 2N except that the face amount is reduced to $1 at the beginning of year 11 (when the COI rates are increased).  

- Scenario 4N is like Scenario 3N except that the timing of the increase in COI charges and the reduction in face amount is at the beginning of year 20.

- Scenario 4E is like Scenario 2E except that the timing of the increase in COI charges is at the beginning of year 20, and the face amount is reduced to $1 at the time the COI rates are increased.

To summarize, the reductions in rate of return associated with the non-experience-rated plans are quite significant, whether the increase is immediate or deferred for nine years. The reduction in face amount to $1 does not result in much improvement, which shows that even when the policyowner takes action to minimize the net amount at risk, an increase in COI rates is significant. For the experience-rated plans that have a fully funded Mortality Reserve at the beginning of the illustration, the increase in COI charges is added to the Mortality Reserve, resulting in increased annual experience credits, and as a result there is minimal deterioration in rate of return performance.

The next issue of Product Matters! will include a follow-up article that will:
Effects of Experience Rating on COLI/BOLI Programs

- provide guidance regarding when experience-rated designs are more suitable than other designs (and vice versa); and
- enumerate some strategies for minimizing exposures to excessive mortality-related costs.

The articles in this series were designed to provide institutional purchasers and sponsors of life insurance with knowledge about the mortality costs, benefits and risks associated with COLI/BOLI programs. Articles in the original series that are not expected to appear in Product Matters! include “Risk Transfer Considerations,” which addresses these considerations from a variety of perspectives, and “Common COLI/BOLI Misconceptions,” which concludes with a discussion that debunks common misconceptions that have been used to criticize the purchase of COLI/BOLI programs. The interested reader can find the entire series at www.mbschoen.com under News and Publications (dated March 1, 2019) in the Resources tab.

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ENDNOTES

1. The insurer will want to avoid antiselection. For example, a group that has lower than average mortality may choose to withdraw from the experience by terminating coverage, which may have an adverse effect on the future experience of the pool. The insurer will prefer to avoid antiselection, since it results in reduced earnings or the need to raise prices.

2. For an experience-rated plan, all or the majority of the mortality charges are added to the Mortality Reserve, and to this extent there is not an economic loss from the mortality charge. Conversely, when there is a claim on an experience-rated plan, a portion of the claim costs is covered by a charge to the Mortality Reserve, thus reducing the economic gain at the time the claim is processed. As a result, earnings volatility is reduced for experience-rated plans.

3. The retention charge on experience-rated plans in the marketplace (illustrated here at 5 percent) is typically smaller than the expected margin for non-experience-rated plans (illustrated here at 13 percent, equal to 58 percent less 45 percent). The authors believe this is partly due to the larger case size typical for experience-rated plans and partly because the insurer has a better chance to recover losses in one period via gains in subsequent periods under experience-rated plans.

4. Because the product uses the cash value accumulation test for compliance with the definition of life insurance under IRC Section 7702, reducing the face amount to $1 causes the death benefit to be equal to the cash value divided by the net single premium, which provides the minimum coverage needed to satisfy the definition of life insurance (under IRC Section 7702). Reducing the coverage amount allows the policyowner to obtain partial relief from the adverse impact of the increase in COLI charges.

5. The internal rate of return has been determined prospectively from the beginning of year 11 over the remainder of the life of the plan based on pretax cash flows, with the end of year 10 cash value (and end of year 10 Mortality Reserve for experience-rated plans) treated as “invested” at that time. It has also been assumed that coverage on each insured is continued in force until death.
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