



Justine Morrissey Marinos Savvides Natalia Mirin

Introduction



Justine Morrissey



Marinos Savvides



Natalia Mirin



Content

- Introduction
- Impact of Covid-19 on new business
- Factors informing difference in impact between regions
- Considerations for setting assumptions:
 - Persistency
 - Expenses and expense inflation
 - Charges for unit-linked business
 - Economic assumptions
 - Bonus rates for participating products
- Impact on margins over and above best estimates
- Conclusions



Introduction (cont.)

What we will cover

- Additional considerations within assumption setting process in Life Insurance brought by Covid-19 pandemic
- Aim to cover points we noted insurers started considering within the past year
- Points discussed within this presentation do not intend to be exhaustive

What we will not cover

Mortality and morbidity Covid-19 impact and additional considerations



Impact of Covid-19 on new business

Underwriting

- Modified requirements and specific Covid-19 questions
- Automation and increased number of remote medical assessments and statements
- Consider privacy and discrimination
- Fast reaction to reflect new medical information

Pricing

- Increased uncertainty in assumptions for long-term products
- Redundancies and reduced staff needs
- Uncertainty about availability of medical help



Impact of Covid-19 on new business

Life Insurance product demand

- Part of general population reconsidered importance of insurance
 - Protection: increased awareness vs. falling income
 - Investment and financial guarantees: attractiveness to customers vs. market reluctance to offer guarantees; investment income volatility and demand on smoothing
 - Pension: personal demand on liquidity impact on new business volumes



Factors informing difference in impact between regions

Availability of data and structured sources

Responses to the pandemic:

- Lockdowns stringency and speed of implementation
- Economic support from the government
- Insurance regulators' responses

Population profile



Considerations for setting assumptions - Persistency

Types of Product Requiring Persistency Assumptions

Differences in Persistency between Participating and Non-Participating business

Primary Drivers of Persistency Experience under COVID-19

- Type of Product and Features
- Policyholder Age & Type
- Economic Impact
- Perceived Value of Insurance
- Distribution Channels
- Customer Support



Considerations for setting assumptions - Persistency

Applicability of existing persistency experience analysis methodologies

- Does the investigation period introduce skewness in the results?
- Are decreases in persistency experience during 2020 a paradigm shift?
- Are there geographical clusters of persistency experience?

Covid-19 Impact

- Uncertainty on whether pandemic has fundamentally altered policyholder behaviours
- Stress/Sensitivity testing is required to understand impact on capital position
- Experience analysis may need to be reconsidered



Considerations for setting assumptions – Expenses and Expense Inflation

The operational structure of many insurers has changed

Regulatory and policyholder responses to the pandemic have also had an impact on expense levels

A number of factors relating to the measures taken impact expense assumptions:

- Digitisation of on-boarding, customer support and BAU
- Changes to business persistency rates, and future mix of business
- Regulatory and voluntary actions

The allocation of the above will need to be carefully considered.



Considerations for setting assumptions – Expenses and Expense Inflation

- Expense inflation will be impacted insofar as the underlying drivers, CPI, CPIH and RPI rates have been affected by the pandemic
- Alternatively, the relationship between fixed-interest and index-linked bond yields may be considered as the market view of inflation



Considerations for setting assumptions – Charges for unit-linked business

Premium allocation charges will be affected by:

- Expectations of future New Business
- The impact of changes to persistency (covered earlier)
- Impact of inflation on the charge in the short-term
- Current capital strain, and structure of charges schedule

Charges to provide life cover will be affected by changes to the underlying population's health:

- Potential increases in mortality rates due to Covid-19
- The typical population for a product will need to be considered
- Market volatility will impact the Sum at Risk



Considerations for setting assumptions – Charges for unit-linked business

Fund management charge considerations:

- Possible reduction in fund values on UL products due to a market fall
- Impact of increase in lapses or paid-up rates on investment-linked funds

Other charges:

- Policy Administration: potential effect of inflation increases and falling fund values
- Investment Guarantees: drops in fund values will need to be considered
- Riders: revisit the charges, particularly for health or hospitalisation benefits, based on emerging experience



Considerations for setting Economic assumptions

Focus on investment economic assumptions (inflation covered earlier)

Main impact of pandemic is more volatile investment markets

Key things to consider in investment strategy

- Equity exposure
- Quality of assets
- Liquidity
- New business premium
- Continuing risks



Considerations for setting Economic assumptions

- Different investment risks depends on the products insurer writes
 - Unit Linked/Investment products
 - Annuity products
 - With profits products
 - Non participating products
- Key things for insurer to understand
 - Sensitivity to changes in investment market and how that impacts the outlook for capital position



Considerations for setting assumptions – Bonus rates for participating products

Key features of Participating products

Consider Year End regulations

- UK allow for future bonus
- UK allow for management actions
 - Reduce bonus
 - Change split of bonus
 - Change investment approach

Bonus calculation regulations

- UK Principles and Practices of Financial Management
 - Asset share basis, Mix bonus annual and final, Investment philosophy, Smoothing approach
- Use assumptions for expenses, lapses, investment returns and mortality



Considerations for setting assumptions – Bonus rates for participating products

Year end bonus assumption start from latest bonus declaration

Covid 19 impact

- Things are uncertain
- Is latest bonus declaration ok? Is PPFM ok? Assumptions ok?
- Valuation Need to be able to explain method and assumptions used
- May need more stress/scenario testing to understand the impact
- May need to update year end numbers more frequently as pandemic develops



Impact on margins over and above best estimates

 Financial reporting looked to use assumptions that are best estimate for valuing assets and liabilities

- Best estimate equal chance of assumption being too optimistic or too cautious
- Geography, company and individuals culture may impact approach to best estimate
- Interaction of different assumptions give holistic view



Impact on margins over and above best estimates

Impact of Covid 19

- Increased the range of uncertainty and this uncertainty is a challenge to assumptions
- Opportunity for Actuaries to advise management by looking at different scenarios
- Valuation bases are long term but expect more volatility in next few years
- Potentially look to hold explicit additional reserve for Covid-19 impact than change best estimate
- Could have an addition to Best Estimate than reduces over time to Long term expected level



Conclusions

- It is taking longer to understand potential long-term impacts of the pandemic
- Insurers should consider points applicable specifically to their business and their insured population and these may vary greatly from company to company
- Consider research performed by CMI and other workstreams in respect of potential impacts on mortality and morbidity as these are very often most important risk categories for Life Insurers



Questions

Comments

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.

