Health & Ageing Conference 2021
What will it take to ensure a healthy recovery from COVID-19?

Day 1: 2 December 2021, 10:00–16:30 GMT
Part 2: Disruptive forces in health & life insurance
Health & Ageing Conference 2021
Session 5: Climate change and health – Are we prepared?

Sam Gutterman
Consulting Actuary
Society of Actuaries

Gijs Kloek
Senior Manager Group Insurance Risk Management, Achmea

Maria McGowan
AVP Global Underwriting & Claims Risk Management Manulife

Maryam Golnaraghi
Director Climate Change & Environment, The Geneva Association
Moderator

Health & Ageing Conference 2021, #HealthAgeingConf21
Session 5: Climate change and health – Are we prepared?

Maryam Golnaraghi
Director Climate Change & Environment
The Geneva Association
Topics for discussion

- Implication of climate change and environmental risks for mortality or morbidity risks. Understanding how the industry is framing the issue and to an extent operationalising this.

- Importance of physical climate risks, climate adaptation measures and public health-related issues.

- How does climate change mitigation and transitioning to a low-carbon economy factor in? Benefits and potential risks?

- What challenges remain and how should life and health insurers start thinking of this on the underwriting side?

- Why actuarial science is challenged and why we need prospective modelling/scenario analysis.
### Defining climate change risk

**Task Force on Climate-Related Financial Disclosures (TCFD) and beyond**

<table>
<thead>
<tr>
<th>Physical risk</th>
<th>Transition risk</th>
<th>Litigation risk</th>
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<tbody>
<tr>
<td>- <strong>Acute risk</strong>: increased severity of extreme weather events</td>
<td>- <strong>Policy risk</strong>: policy actions for adaptation or mitigation</td>
<td>At present, litigation risk is often understood as a subset of transition risk, yet the implications could go beyond ‘liability risk’ as defined by the TCFD</td>
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<td>- <strong>Chronic risk</strong>: shifts in climate patterns (e.g. sustained higher temperatures, heatwaves, sea level rise)</td>
<td>- <strong>Market risk</strong>: shifts in supply and demand</td>
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<td>Direct damage to assets and indirect impacts from supply chain disruption, operations etc.</td>
<td>- <strong>Technology risk</strong>: technological innovations for low-carbon transitioning</td>
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<td>Linked to measures taken to address mitigation and adaptation requirements for transitioning</td>
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**Source:** TCFD 2017 and The Geneva Association 2021

Lawsuits brought before domestic or international courts and bodies that raise issues of law or facts regarding the science of climate change or mitigation and adaptation efforts
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Sam Gutterman
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Society of Actuaries
Myths about climate change and mortality/morbidity

1. Fewer people die now of natural disasters, so why worry?
2. Even if a valid, long-term concern, climate change won’t affect the life/health insurance business for decades
3. Climate change won’t affect my book of business
   • My market segment is restricted to those with higher incomes
   • I only operate in temperate-climate countries
4. A 1.5°C or 2.0°C (only 0.4°C or 0.9°C from now) warming is really small
5. It will either be ‘the end of civilization as we know it’ or ‘a no-never-mind issue’ (depending on who is talking/listening)