

Critical Illness: A tale of three continents

Aisling Kennedy and Hengchang Pan

Presented by webinar: Thursday 6 June 2019 at 14.00

Agenda

- Geographic reach
- Product landscape
- Trends
- Risk considerations
- Definition assessment
- Conclusion



26 June 2019

Origins

- Dr Marius Barnard:
 - "I was used to operating on people and boasting about my great results of patients surviving five or six years. But all of sudden I saw the social and financial implications. I knew nothing about insurance but I knew life insurance paid out on the diagnosis of death. But to me, my patients lived for years but in this time they died financially."
- Crusader Life, South Africa, 1983
- Began with BIG conditions :
 - Cancer, Heart Attack, Stroke
 - Coronary Artery Disease requiring surgery
 - Kidney Failure, Major Organ Transplant
- All accelerated to life coverage



6 June 2019 3

Geographic reach





26 June 2019

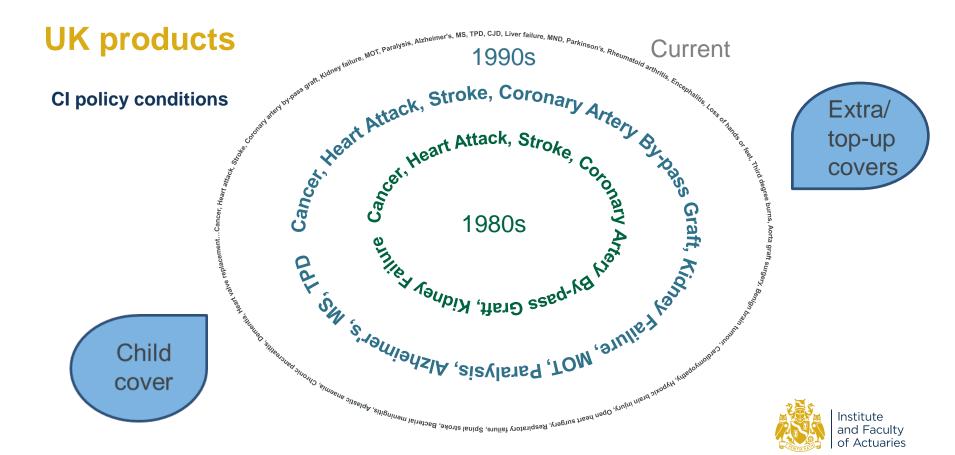


Product landscape

A THE PROPERTY OF SEREBBEREE! BARBARA BARBARA

SHUBBINE HE HELD

26 June 2019



24 November 2017 6

Eastern Europe - examples

Poland

- Cancer cover
- Male and female product variations
- Basic, Classic, Premium versions
- Max benefit up to 150% of sum assured:

Trigger	Benefit amount
Cancer diagnosis	40% of sum assured
Chemotherapy	5% per each course, max. 5 courses within 5 years since initial diagnosis
Radiotherapy	5% per each course, max. 5 courses within 5 years since initial diagnosis
Surgery	20% (only one surgery within 5 years since initial diagnosis)
Recovery benefit	5% monthly for 3 months
Relapse	10% between year 5 and year 10 since initial diagnosis
Recovery	10% after 10 years since initial diagnosis
Palliative care	Remaining part up to 100% of sum assured

Czech Republic

- Rider within investment product
- "Basic" and "Complete" variants
- "Complete" cover pays up to 3 x 100% claims
- Six groups of conditions:
 - Vital organ failure
 - Nervous system
 - Cardiovascular system
 - Inflammations
 - Tumours
 - Other
- Partial cover for carcinomas in situ

Russia

- Cancer cover
- Juvenile and adult products
- Pre-defined sum insured:1.5 million RUB (USD 23,000 USD)

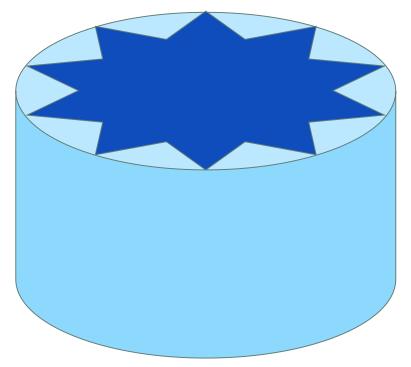




and Faculty of Actuaries



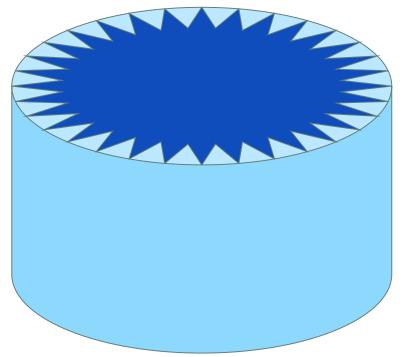
Asia products: traditional CI



- Emphasis on core CI conditions well-known to everyone (e.g. Cancer, Heart Attack, Stroke, etc..)
- Reasonably comprehensive cover but with some gaps
- Almost all are whole of life, limited pay products



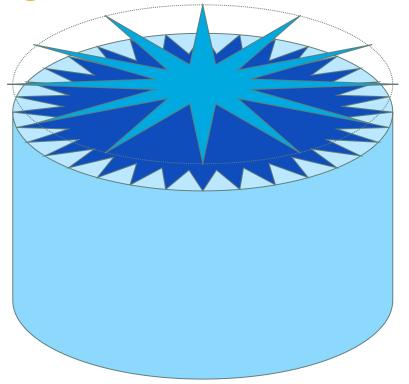
Adding more Critical Illness conditions



- Longer list of covered CI conditions with small additional cost
- Some additional CI conditions overlap significantly with existing coverage
- Some additional CI conditions extremely rare
- Coverage only slightly more comprehensive and still with some gaps



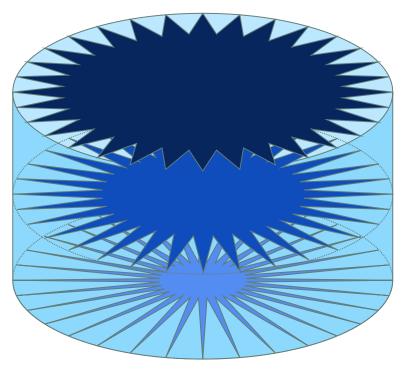
Early stage Critical Illness



- Support right from the Beginning
- Encourages Wellness and Early Detection
- Income and Lifestyle Protection
- Coverage of very common "early stage" conditions avoided due to cost



Multiple payment Critical Illness



- Subsequent CI benefits payable after a "waiting period" or "reinstatement period"
- Subsequent CI typically needs to be unrelated (or not strongly related) to the first CI condition
- Many different ways to define "related / unrelated" conditions
- Balance needs to be found between premium levels and generosity of subsequent CI coverage

Institute

MPCI – Key sales messages

- 100% Premium 500% Claims
 - Headline message of up to 5x (or more) claims possible with just one premium
 - The 'Multiple' of cover presents a strong marketing emotional story
- No Loss of Insurability after a Major CI
 - More and more people are surviving after suffering a critical illness and will need protection
 - But people who have already suffered a CI event usually cannot get cover for a second CI event
- Refresh / Rejuvenate existing CI coverage
 - With medical advances, survival of a first CI event is much higher than before
 - Can be integrated with existing CI coverage, as top up for first CI cover and add on multipay element

Next Generation Pot CI – how much is too much?











- Pots of critical illness cover, categorised by body system
- Each pot covers early and severe stage conditions
- No restrictions of claim sequence, can make a claim under any pot as long as:
 - There is still coverage left in that particular pot;
 - The condition to be claimed had not been claimed for before
- Also enhanced cover for the top 3 conditions: Cancer, Heart Attack and Stroke
- Launched in 2013 in Hong Kong, now also in Thailand, China

and Faculty

Relapsed cancer coverage

First in the market

Long-term financial support for cancer patients with the unique Cancer Shield Benefit

Cancer Shield Benefit is a unique feature of *Protect Elevator Plus* under the *Protect Elevator series*, providing stronger cancer coverage with 2 additional claim payments for the insured after his / her first claim for cancer. Total benefits payable may equal to a maximum of 260% of the Initial Face Amount. The thorough coverage provides you long-term financial support to ease your burden. When the insured's first major illness claim is for cancer, no further premium payments are required. If the insured still has cancer 3 years after the last diagnosis (whether as a continuation of the preceding cancer or as a new cancer), we will pay an additional Cancer Shield Benefit equal to 80% of the Initial Face Amount for up to 2 times.



The insured needs to survive for at least 15 days from the date of the second and third diagnoses. The Cancer Shield Benefit is effective only after the first major illness claim is cancer until the insured turns 85 and covers prostate or thyroid cancer until age 70. If the first claim of major illness is not cancer, the Cancer Shield Benefit will be terminated.



Recent slowdown in features war

- Products became very complicated
- Products became expensive
- Accumulated large exposure of risks
 - Evolved before getting experience
 - Long protection period, limited / no rate reviewability
 - Mainland China: already huge and still fast growing
- Slower product upgrade cycle
- More feature re-shuffle, fewer new features
- (Roll back some existing features)



Japan





Whole of Li

0 Years

Rider

Main Policy

WoL

Cancer Diagnosis

- JPY1m for Malignant Neoplasm (MN); 100k for CiS
- Cancer Hospitalisation
 - DHC is JPY10k or 5k
 - Unlimited payment
- Cancer Outpatient
 - Daily amount = DHC
 - Unlimited payment if it is after cancer hosp. or it is for the three cancer treatments below
- Cancer Surgery: DHC * 20; unlimited, but once in 14 days
- Cancer Radiotherapy: DHC * 20; unlimited, but once in 60 days
- Chemotherapy
 - DHC * 10; unlimited, but once a month
 - If it is hormone drug for breast or prostate, benefit will be DHC * 5
- Cancer AMT (Advance Medical Treatment)
- · Cancer Relapse Diagnosis: once in two years
- Services
 - Medical specialist referral service by Best Doctors
 - Visiting consultation service



The need for rate guarantees in Asia

- The (untested) fear of rate reviewability
- Lack of certainty future affordability issues?
- Mis-matched earning spending profile?
- Consumer exposed to future downside risk
- Harder to understand?
- Well explained at sale?
- Harder to compare different providers' products
- Trust between policyholder, distributor, insurer, regulator? Consumer groups?
- Is the review fair? Reasonable expectations?
- A one-way bet?



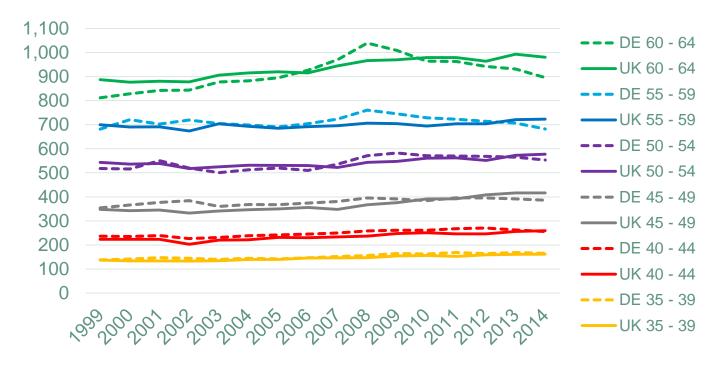


26 June 2019

HERRICH BERTHER GERGESES HERE **Trends**

Cancer incidence trends – Females

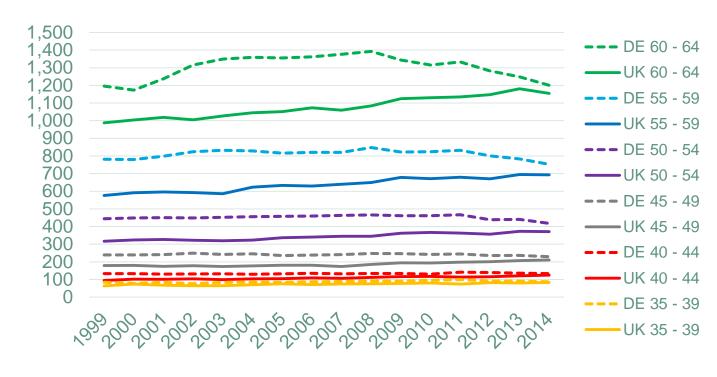
(All excluding Non-Melanoma Skin Cancer, incidence per 100,000)





Cancer incidence trends – Males

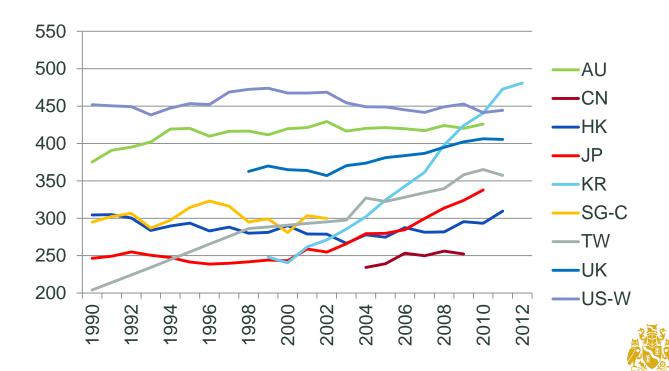
(All excluding Non-Melanoma Skin Cancer, incidence per 100,000)





Cancer incidence trends – Females

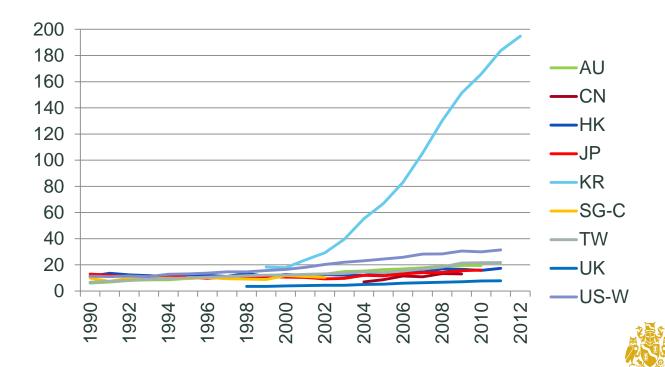
(All exc Non-Melanoma Skin Cancer – insured age-adjusted incidence per 100,000)



Institute and Faculty of Actuaries

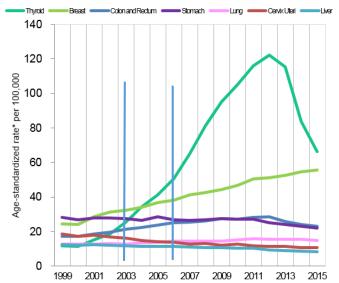
Thyroid cancer – Females, if time stops at 2012

(insured age-adjusted incidence per 100,000)



Institute and Faculty of Actuaries

Korea – cancer incidence trend extended to 2015



Cancer sites	Trend 1		Trend 2	
	Period	APC (%)	Period	APC (%)
Thyroid	1999-2011	22.7*	2011-2015	-14.1*
Breast	1999-2007	6.8*	2007-2015	4.0*
Colon and Rectum	1999-2011	4.4*	2011-2015	-6.0*
Stomach	1999-2011	-0.3	2011-2015	-5.1*
Lung	1999-2012	1.8*	2012-2015	-1.9
Cervix Uteri	1999-2007	-4.3*	2007-2015	-2.6*
Liver	1999-2010	-1.5*	2010-2015	-4.9*

p < 0.05

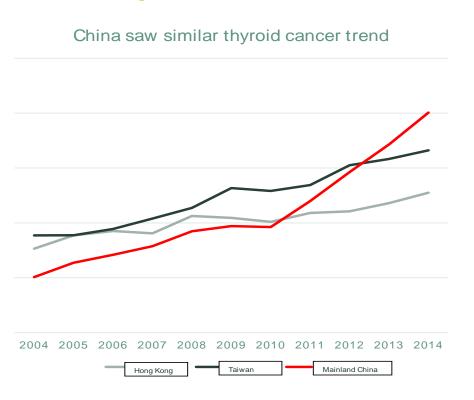
Source: South Korea National Cancer Center https://www.ncc.re.kr/main.ncc?uri=english/sub04_Statistics



¹⁾ Major sites selected based on 2015 crude rates

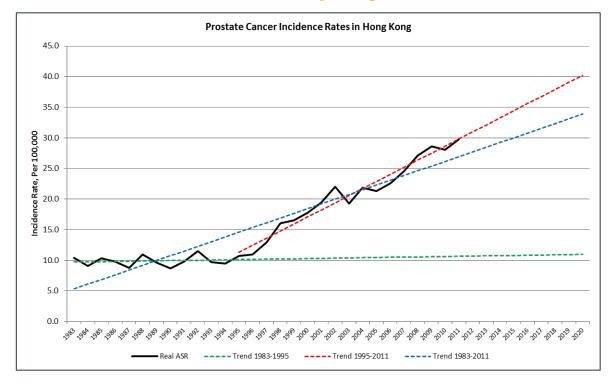
^{*} Age-standardized incidence Rate (ASR) was standardized to the Korean standard population (year 2000)

Thyroid cancer experience not limited to Korea





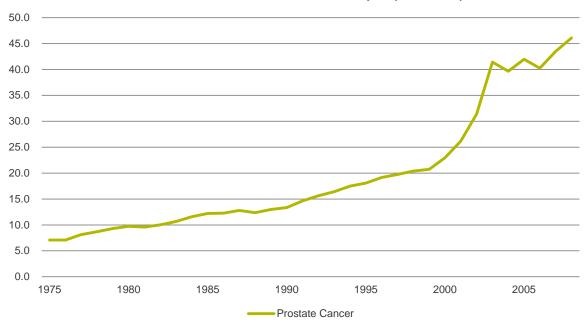
Critical demand for trend projection





Limitation of projection methods

Prostate Cancer Incidence Trend of Japan (Male, ASR)







Risk considerations

IS ARRESTER STATE SERBEBBBBBBBB BARBARA BARBARA SHORD SHOP SHOP

Risk considerations

- Anti-selection risk
 - Information asymmetry
 - Genetic testing
- Over-diagnosis risk
 - Detection of otherwise indolent cancers
 - (Unnecessary) screening
 - Technology advances
 - High sensitivity biomarkers



6 June 2019 28



A THE REPORT OF THE PARTY OF TH SERBEBBBBBBBB BARBARA BARBARA ERREAL PROPERTY. **Definition assessment** 26 June 2019

Definition assessment

	UK	Germany	Israel
Cancer			
Liquid biopsy			
Prostate cancer			
Thyroid cancer			
Skin cancer			
CiS			
Heart attack			
Stroke			



6 June 2019

Questions

Comments

The views expressed in this [publication/presentation] are those of invited contributors and not necessarily those of the IFoA. The IFoA do not endorse any of the views stated, nor any claims or representations made in this [publication/presentation] and accept no responsibility or liability to any person for loss or damage suffered as a consequence of their placing reliance upon any view, claim or representation made in this [publication/presentation].

The information and expressions of opinion contained in this publication are not intended to be a comprehensive study, nor to provide actuarial advice or advice of any nature and should not be treated as a substitute for specific advice concerning individual situations. On no account may any part of this [publication/presentation] be reproduced without the written permission of the IFoA [or authors, in the case of non-IFoA research].



6 June 2019 31