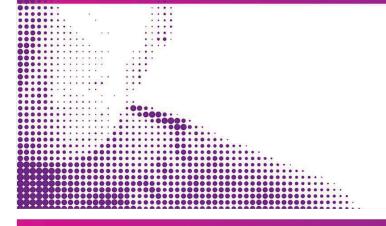
Cancer – changing landscape in Asia

Paul Murray

EAAC 2013, Singapore





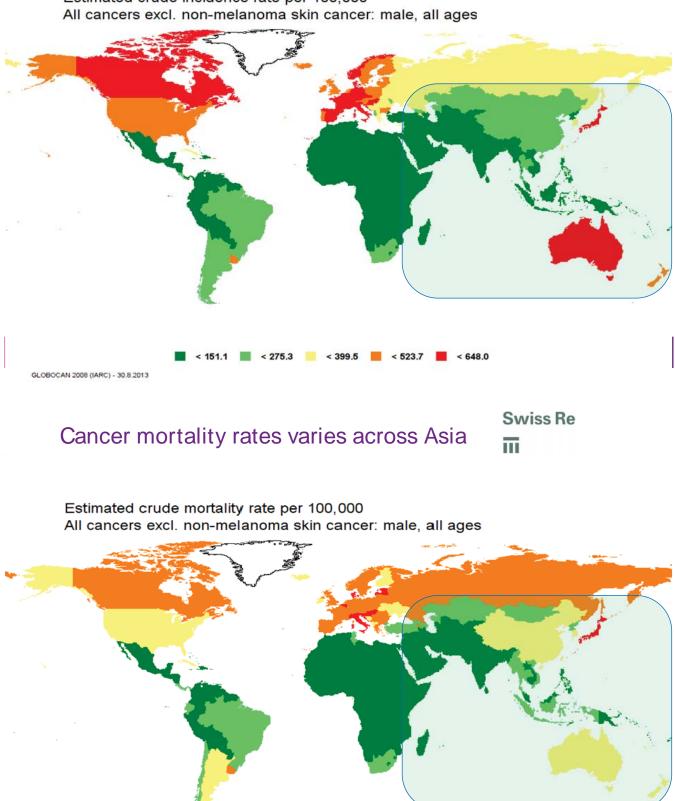
Swiss Re

Cancer Risk in Asia

Current landscape across Asia

Cancer incidence varies across Asia

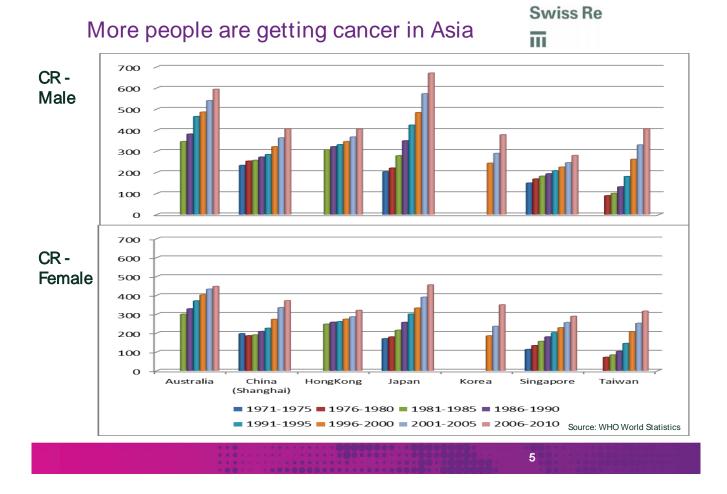
Swiss Re Π



📕 < 159.4 📃 < 231.2 📕 < 302.9 📕 < 374.7

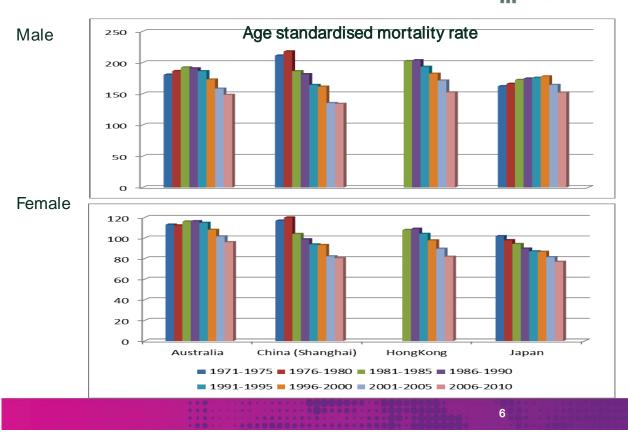
Estimated crude incidence rate per 100,000

< 87.7



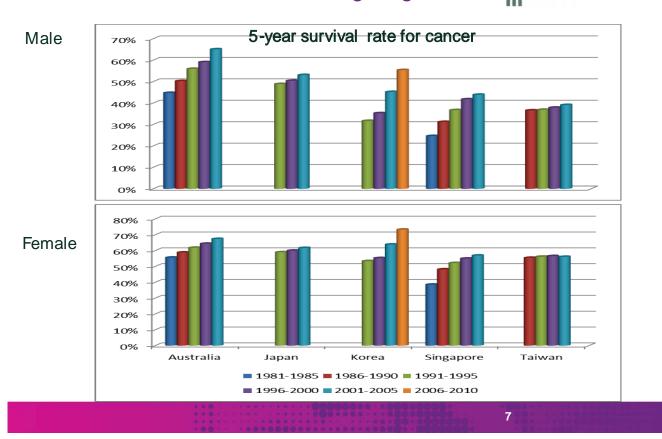
More people are surviving cancer





Cancer survivors are surviving longer

Swiss Re





- Detection cancer
- Treatment cancer
- Life after cancer

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1) Getting cancer

- Changes in society actions
- Changes in lifestyle/ dietary

Society has taken pro-active steps to address Swiss Re cancer risk:

Smoking Campaign in Hong Kong



Changes in diet/lifestyle affects the risk of getting cancer

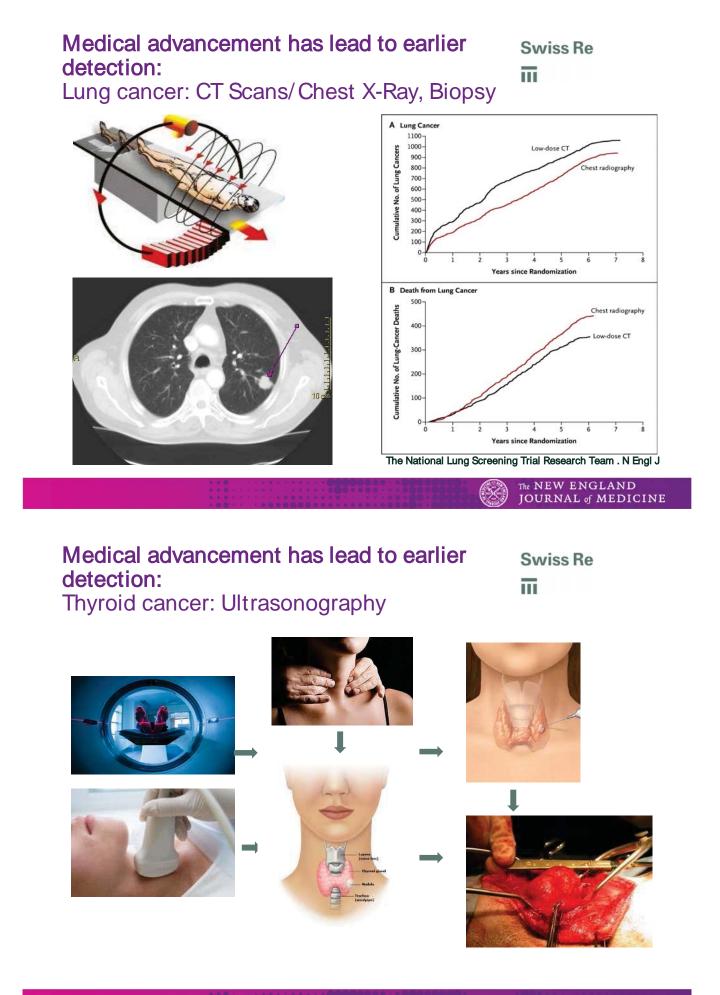


Swiss Re

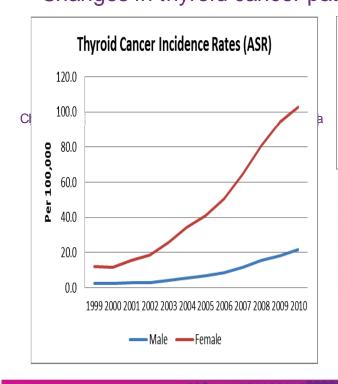
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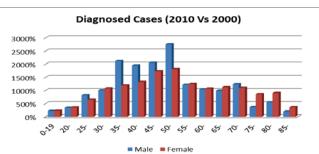
2) Detection

- Impact of Medical advancement
- Development of National Screening Programs



Earlier detection leads to changes in cancer swiss Re pattern: Changes in thyroid cancer pattern in Korea





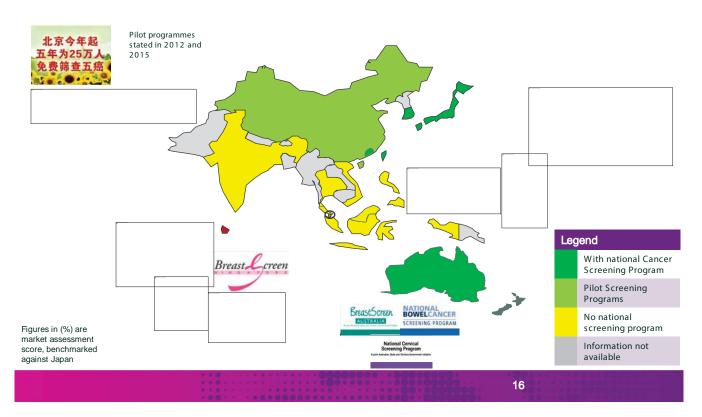
| Age | Male | Female |
|-------|-------|--------|
| 30-39 | - | 11.5% |
| 40-49 | 5.8% | 13.8% |
| 50-59 | 10.3% | 26.3% |
| 60+ | 10.8% | 17.0% |

Screening Rate (2009 Korean National cancer screening survey)

Screening rate in Korea was 95%/27% (M/F) higher in people having private health insurance compared with people having not.

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Development of National Screening Program leading to earlier detection



Swiss Re III

3) Treatment

Swiss Re

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Recent medical advances in cancer treatmen

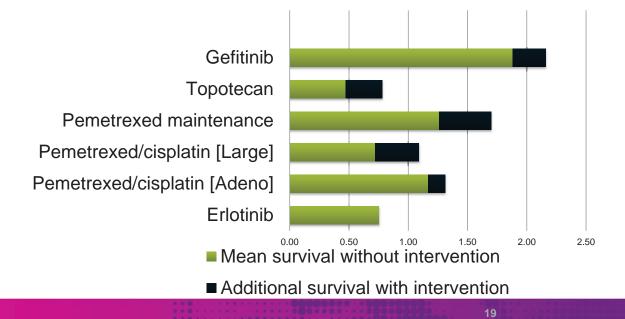
- Targeted therapies a major advance in last 20 to 30 years
 - monoclonal antibodies
 - small molecules
- Chemotherapy

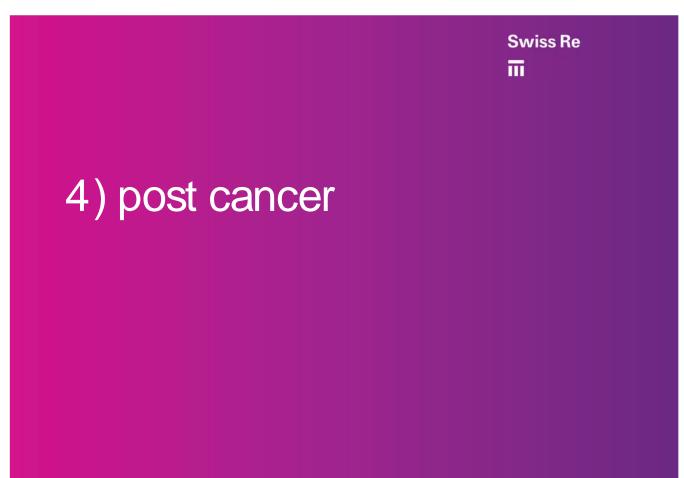
use drugs to destroy cells that grow quickly (including cancer cells and other cells)

- Radiotherapy use radiation to damage the DNA of cancer cells (and surrounding tissue), thereby destroying them
- Bone Marrow / Stem Cell Transplant to restore stem cells destroyed by chemo/radio
- **Combination therapy** to overcome cancer cells that have built up natural resistance

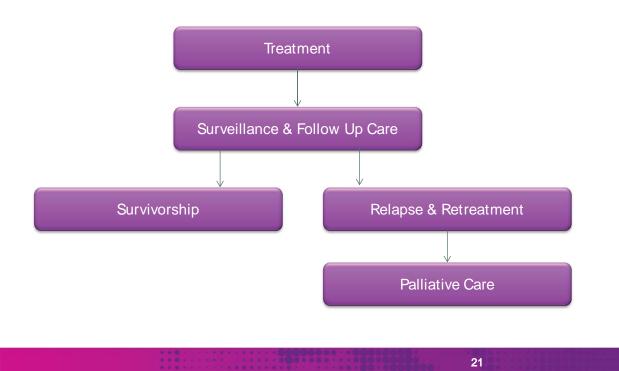
Advances in treatment leads to longer life expectancy: Lung cancer treatments

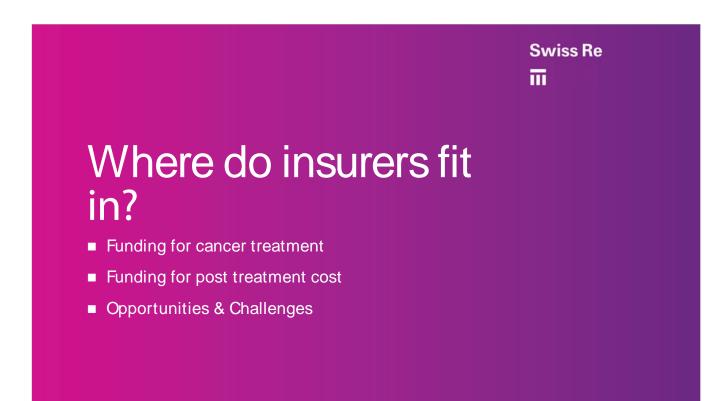






Little focus on post cancer in Asia Not much has been done...





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Funding for the treatment cost

Perceived treatment cost and % of insurance coverage for Cancer

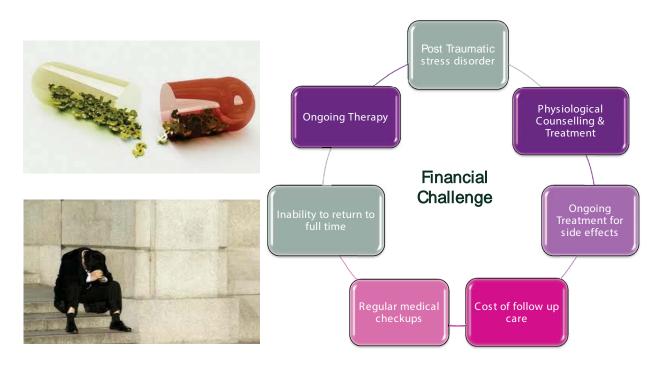


Funding for post cancer cost

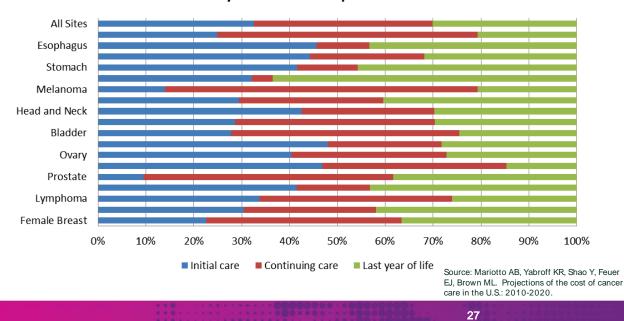
Post cancer issue needs to be address

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Post treatment cost is significant



Estimate of proportion of national expenditure for cancer care in 2010 by cancer site and phase of care



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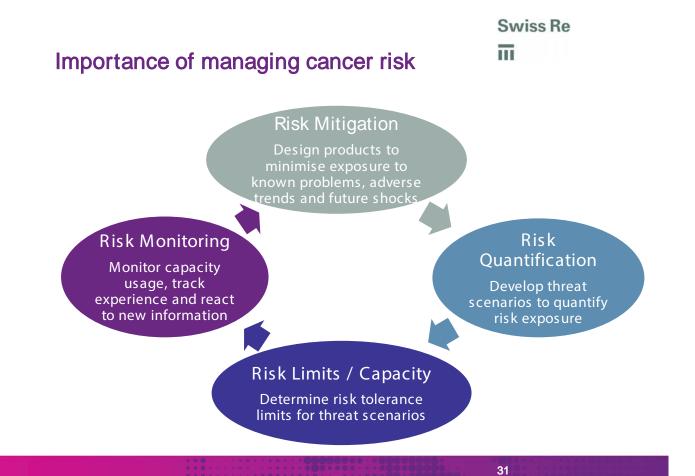
Huge opportunities for insurers to fill up the gaps in current offerings

- · Lack of holistic cancer coverage in current offerings
- · Lack of understanding of cancer risk and it's implications
- · Lack of ability to afford insurance at older ages

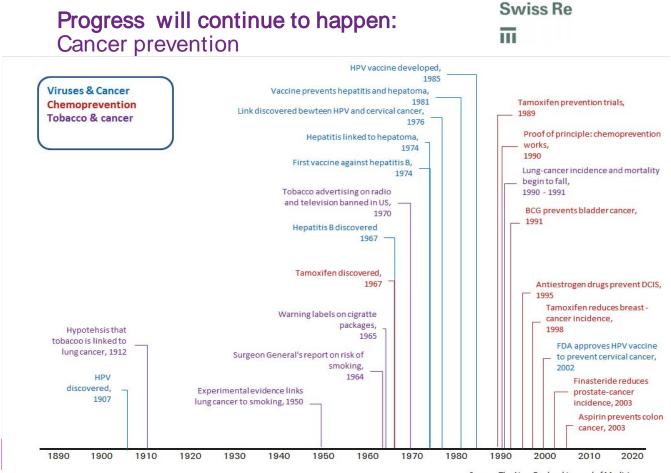


Swiss Re





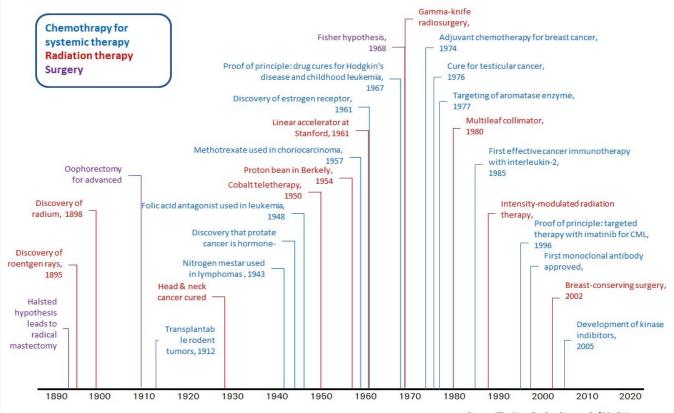
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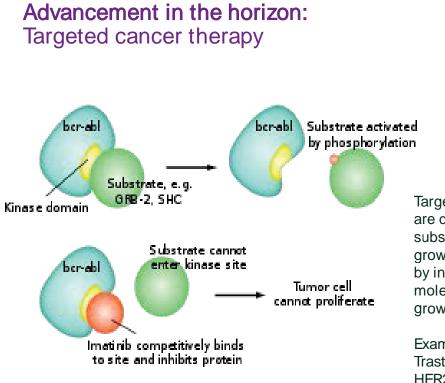
Source: The New England Journal of Medicine

Progress will continue to happen: Cancer treatment

Swiss Re



Source: The New England Journal of Medicine



http://en.wikipedia.org/wiki/Targeted_therapy

Targeted cancer therapies are drugs or other substances that block the growth and spread of cancer by interfering with specific molecules involved in tumor growth and progression.

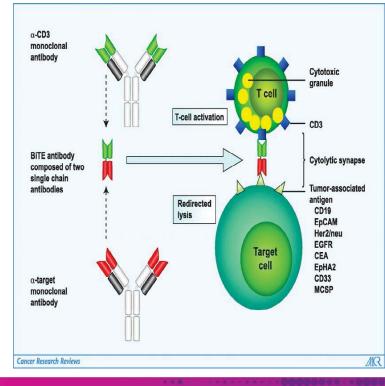
Swiss Re

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Example:

Trastuzumab (Herceptin) for HER2 positive breast cancer.

Advancement in the horizon: T Cell treatment



Swiss Re Π

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BITE (antibody produced ex-vivo) can connect tumour cell and T lymph cell together and then start the lysis process.

Potential advantages:

- Activation of Innate body function •
- Highly specific
- Self-escalating
- Prevention of relapse and even 1st • primary

Blinatumomab (by Micromet) and ImmTac-gp100 (by Immunocore) already in clinical trial with some initial positive results. Billion dollar acquisition has been triggered in pharmacy industry although there are still big uncertainty ahead.

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Are we prepared?





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