OBSERVATIONS

SCIENCE AND POLITICS OF NUTRITION

Why would a leading global reinsurer be interested in nutrition?

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The benefits of better diets extend beyond health

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“Let food be thy medicine and medicine be thy food.” More than 2000 years ago Hippocrates already recognised the link between nutrition and health. Today this link has an ever growing effect on our global society and, in particular, on insurers, who provide a financial safety net for people around the world. In the US, the world’s largest life insurance market, insurers provide nearly \$2tn in coverage for individual life policies.¹

When determining long term mortality risk to provide this cover, actuaries have for decades factored in a price reduction based on the assumption that life expectancy will continue to increase. This is termed a “mortality improvement” assumption and can be locked in for many years when there are long term guarantees. If actual mortality improvements or the trend of living longer should slow down or reverse, it would have a substantial effect on the life insurance industry. Consumers too, would feel the pain, having to pay more for new life insurance than they do today.

In the UK, mortality has improved at a slower rate since 2011 than in the previous decade, according to the Continuous Mortality Investigation 2016 report.²

In the US, adult life expectancy in the general population has fallen for two consecutive years.³ This has not occurred since the 1960s. The subsequent focus has been on the increase in deaths from non-natural causes such as opioid overdose. Yet the key contributing factors for many of the usual causes of death listed, like heart disease or stroke, are hard to determine and are typically not well recorded.

Diabetes

A recent study noted that diabetes is recorded as a cause of death in only 3.3-3.7% of deaths.⁴ However, when the researchers examined the data more closely, the percentage of deaths attributable to diabetes was three times higher at 11.5-11.8%.

It is even more worrisome to see type 2 diabetes rates continue to soar not just in Western countries but also in developing

countries, including many in Asia. India and China now have the highest number of people with type 2 diabetes. In China, almost 15% of adults living in cities today have type 2 diabetes,⁵ and projections of global prevalence do not indicate a slowdown.⁶

In our ageing world, dementia and Alzheimer’s disease are a growing concern and burden to families and society. The link between these diseases and diabetes and obesity (often referred to as diabetes type 3) should alarm us further.

Obesity

Obesity rates continue to climb,⁷ and a recent study re-emphasised that increased obesity is associated with shorter longevity and significantly increased risk of cardiovascular morbidity and mortality.⁸ Though rarely recorded as a cause of death, obesity is often linked to cardiovascular disease and significantly increases the risk of at least 13 cancers.⁹

Cancer Research UK states that after smoking, obesity is the biggest cause of cancer, linked to about 23 000 additional cases annually.¹⁰ For the US, a 2017 report by the Centers for Disease Control and Prevention indicates that cancers associated with overweight and obesity make up 40% of cancers diagnosed.¹¹

Nutrition

As much as genetics plays an important part in a person’s susceptibility to overweight, obesity, or diabetes, nutrition is certainly the key driver. The evidence of what is or should be recommended to healthy people or those with metabolic disease is still confusing, contradictory, and, in fact, calamitous.

Recent studies show that weight loss and remission of diabetes can be achieved through dietary changes.¹²⁻¹⁴ Our understanding of nutrition is often poor because of evidence that is conflicting and sometimes influenced by vested interests. This in turn leads to questionable downstream policy decisions that massively

- Insured Retirement Institute. IRI Fact Book 2017. [http://investor.metlife.com/phoenix.zhtml?c=121171&p=irol-SECText](http://investor.metlife.com/phoenix.zhtml?c=121171&p=irol-SECText&_af=jcr&i=6898&j=1&l=en&m=Newsroom&n=IRI_FactBook2017)
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