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Themes 2020-2021

AMDIS June 2019

Himss

transforming health through information and technology™

What are the likely hot themes?

- Movement from volume to value
- Ageing: Increasing burden of management of multimorbidity
- Precision medicine: starting to permeate whole system
- AI and machine learning starting to become mainstream plus effects of Voice
- Mental health and the millennials
- “Predictive prevention”

A trip around geographies – plus whole systems

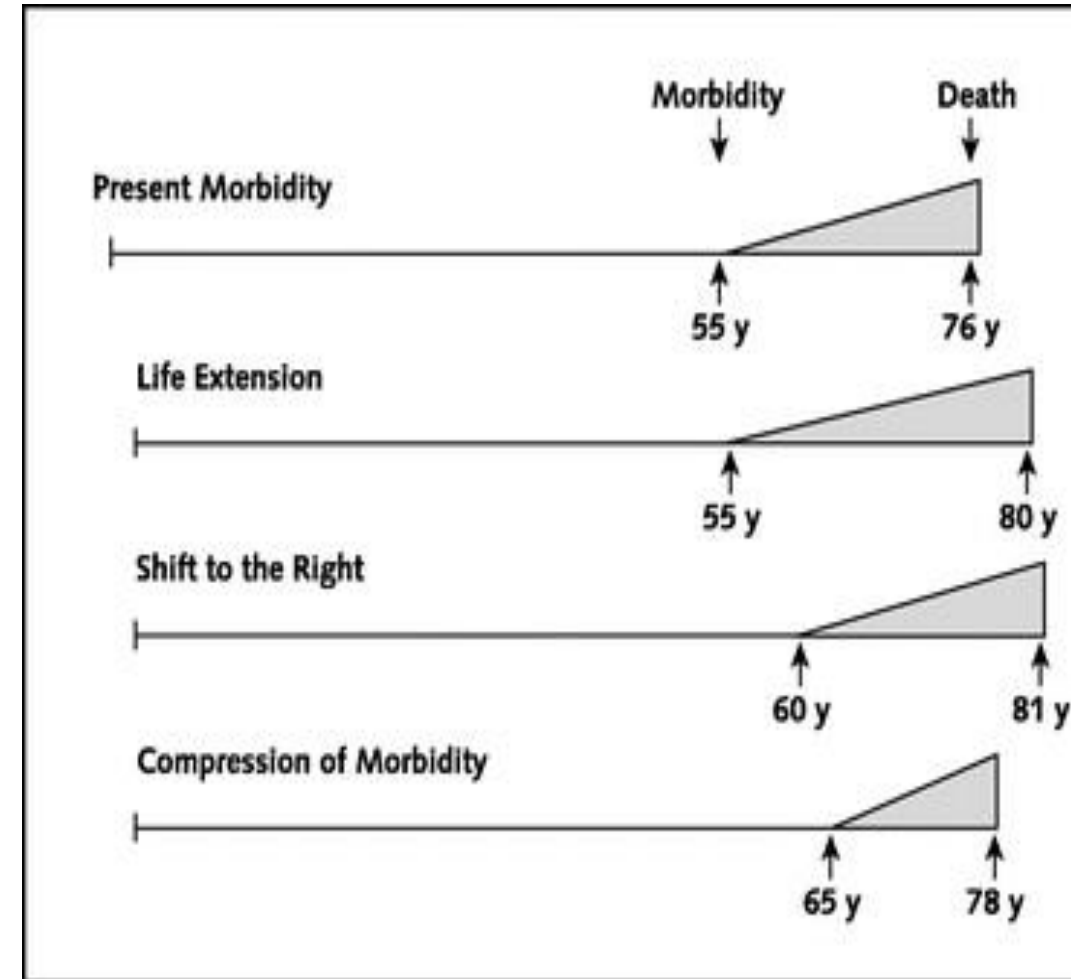
- Europe
 - England and Scotland
 - Germany
 - The Nordics: Finland and Denmark
 - Spain and Italy
- The Middle East
 - Dubai and Abu Dhabi
 - Saudi Arabia
- The Far East
 - Singapore
 - Japan and Korea
 - Australia

- Acceleration as financial challenges become more acute
- Experiments at ceding whole systems
 - Singapore and Saudi Arabia
- Appreciation of the non health determinants
- Wellness
 - wearables and passive receptors

- Managing social isolation pays dividends (ROI £1.26 / £ over 5 years)
- Promoting step changes in our societal perception of value in ageing
- Finding some solutions to our management of multimorbidity in NCDs

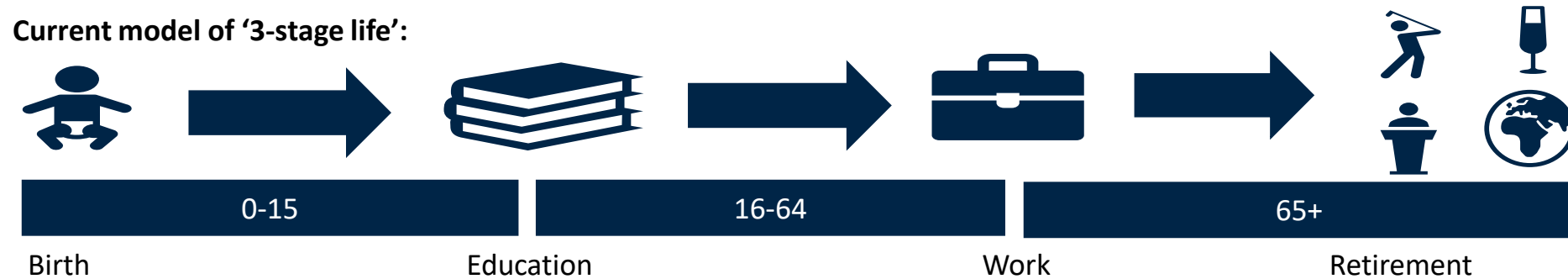
Compression of Morbidity to Disease-Free Life years

- James Fries (Stanford NEJM 1973)
- Life expectancy now increasing more slowly but the “extra years” not healthy
- Male and female differences in life expectancy narrowing with women having greater increase in unhealthy years and HLE remaining static
- Marked socio economic differences in HLE from 3.3 years for a woman aged 65 in poorest areas as against 16.7 years in affluent ones



Longer Lives: A Different Approach

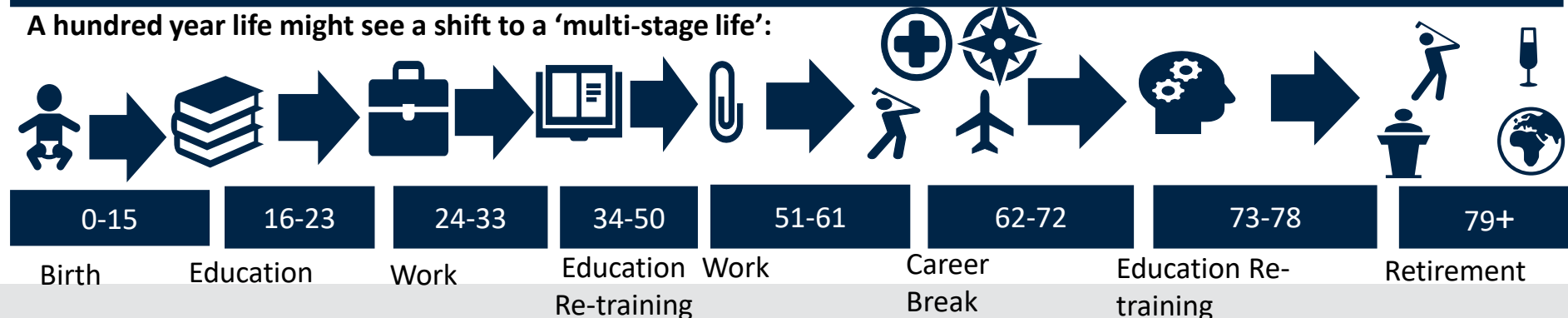
Current model of '3-stage life':



How work might change in a 100-year life

- Current life structures, career paths, educational choices, and social norms are out of alignment with the emerging reality of longer lifespans
- The three-stage life of full-time education, followed by continuous work, and then complete retirement may have worked for our parents or even grandparents, but it is not relevant today.
- If longevity pushes back the age of retirement, likely that the traditional three-stage life will morph into multiple stages containing two, three, or even more different careers e.g. Impossible that a single shot of education administered in childhood and early adulthood will be able to support a sustained, 60 year career.
- Each of these stages could be different and traverse sectors– in one you might build financial success in another create a better work/life balance, another on making a social contribution or marked by sabbaticals to rest and recharge.

A hundred year life might see a shift to a 'multi-stage life':



Shared Decision Making - Precision Medicine

- Precision medicine
 - permeating whole system of care
- Shared decision making
 - a paradigm shift in the doctor patient relationship
- The dichotomy of individualised medicine within societal personalised medicine

AI and Machine Learning - Plus Voice

- Starting to gain traction
 - imaging and pathology
- The Back Office
- Primary care
 - “digital first”
- Voice
 - relegating the keyboard, as well as the consumer space

- Changing global burden of disease
 - cardiometabolic disorders to mental health
- CBT
 - assessed digitally and at scale
 - depression and mental health
- Governance
 - incorporation once these activities mainstream

Predictive Prevention at Scale

- “Traditional” public health in the process of renewal
- “Evidence based approaches for one”
- The potential for promoting behavioural change – “nudge” and gamification

Four pillars of Precision Predictive Personalised Prevention



Data



Targeting



Personalisation



Insight

Combining these elements will allow us to engage and intervene in ways we'd never previously considered.

Unified Infection Dataset

Healthcare professionals could access the following information about a patient to help understand how best to prescribe medication to individual people to reduce antibiotic resistance:

- Microbiology data
- Infection antibiotic susceptibility data
- Prescription data
- Hospital episodes statistics
- Mortality datasets



The All-Embracing Theme: TRUST

- The “United” States and the “United” Kingdom
- The experience of Australia
- Finland and the Nordic countries

“

The doctor of the future will give no medicines, but will interest his patients in the care of the human frame, in diet, and in the causes and prevention of disease.

”

Questions?

- **Collaboration**

- Government Relations
 - Joint policy responses
- Year-long education
 - Upcoming webinars
- HIMSS Global Conference
 - AMDIS-HIMSS Physician's Executive Symposium at HIMSS Global Conference
 - HIMSS-AMDIS Physician Executive Leader of the Year Award
 - Nominations open through July 29

- **Join the HIMSS Physician Community**

- FY20 Workgroups being formed by committee (July/Aug)
- Clinical Informatics Insights Subscription
- Opportunity to network/collaborate with other communities and clinical groups
- Year-long education
 - Upcoming webinars
- HIMSS Global Conference
 - Insight into key education and networking events
 - HIMSS Clinician Circle and HIMSS Executive Circle.

A HIMSS Event

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