Moving towards sustainable cancer care:

Reducing inefficiencies, improving outcomes

ECCO 2017 – All.Can satellite symposium

Sunday, 29th January 2017 Amsterdam

All.Can: launch of the policy report

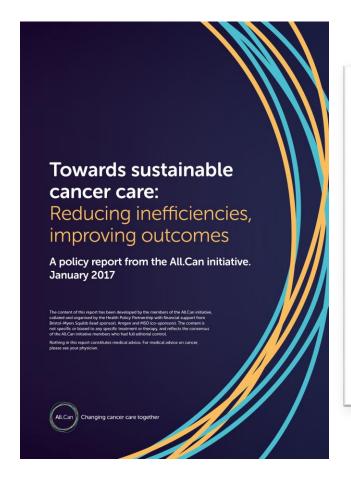
Improving cancer outcomes, creating efficiency

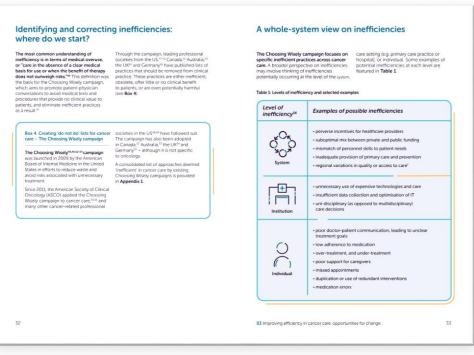
Dr Matti Aapro Clinique de Genolier, Switzerland





Towards sustainable cancer care: Reducing inefficiencies, improving outcomes







Policy report recommendations



Focus political will



Invest in data



Place patient-relevant outcomes at the heart of everything we do



Create greater accountability



Growing burden of cancer in Europe

- 2nd highest mortality rate after cardiovascular disease¹
- 17% of the total disease burden²
- 2.5 million new cases & 1.2 million deaths each year³

^{3.} De Angelis R, Sant M, Coleman MP, et al. Cancer survival in Europe 1999–2007 by country and age: results of EUROCARE-5 - a population-based study.



^{1.} World Health Organization. Global Health Estimates Summary Tables: Disease Burden - Estimates for 2000-2012

^{2.} Cole A, Lundqvist A, Lorgelly P, et al. Improving Efficiency and Resource Allocation in Future Cancer Care.

High unmet needs remain

- 5-year survival: <50% overall across Europe¹
- Survival rates vary widely by cancer type:
 - Lung (13%)
 - Stomach (25.1%)
 - Ovarian (37.6%)
 - Colon (57.0%)
 - Non-Hodgkin lymphoma (59.4%)
 - Breast (81.8%)
 - Prostate (83.4%)¹

- Low survival rates among many rare cancers:
 - Bladder squamous-cell carcinoma (20.4%)
 - Angiosarcoma of liver (6.4%)
 - Mesothelioma (4.7%)²

^{2.} Gatta G, Ciccolallo L, Kunkler I, et al. Survival from rare cancer in adults: a population-based study.



^{1.} De Angelis R, Sant M, Coleman MP, et al. Cancer survival in Europe 1999–2007 by country and age: results of EUROCARE-5 - a population-based study.

Inequalities in access to care

Between and within European countries, there are:

- Gaps in access to cancer surgery¹
- Gaps in access to radiation therapy²
- Gaps in access to medicines,³ even to the low-cost medicines on the WHO List of Essential Medicines⁴

Cost to society

- Catastrophic out-of-pocket costs for many families^{4,5}
- 60% of the costs of cancer are non-healthcare related⁵
- Lost productivity due to cancer: €52 billion across EU⁵
- 1. Sullivan R, Alatise OI, Anderson BO, et al. Global cancer surgery: delivering safe, affordable, and timely cancer surgery.
- 2. Datta NR, Samiei M, Bodis S. Radiotherapy infrastructure and human resourcesin Europe present status and its implications for 2020. Eur J Cancer. 2014
- 3. Sekulovic LK. More than 5000 patients with metastatic melanoma in Europe per year do not have access to new life-saving drugs
- 4. Cherny NS, R; Torode, J; Saar, M; Eniu, A. ESMO European Consortium Study on the availability, out-of-pocket costs and accessibility of antineoplastic medicines in Europe.
- 5. Luengo-Fernandez R, Leal J, Gray A, et al. Economic burden of cancer across the European Union: a population-based cost analysis.



Why is there an urgent need to improve efficiency in cancer care?



"We are... at a crossroads where our choices, or refusal to make choices, have clear implications for our ability to provide care in the future."

Richard Sullivan, the Lancet Commission for Sustainable Cancer Care Commission in High-Income Countries (2011)

1. Soneji S and Yang JW. New Analysis Reexamines The Value Of Cancer Care In The United States Compared To Western Europe.



Improve efficiency & invest in innovation

It is not about spending more, but spending better

- Improving efficiency ≠ linear cost-cutting¹
 - Cost cutting without considering outcomes will create false savings & limit long-term efficiency improvement¹
- Invest & disinvest with a focus on improving patient outcomes with resources available
- Consider the long-term value of care choices and investments on outcomes and costs, including social costs

1. Porter ME. What Is Value In Health Care?



All.Can: our goals



Help define better solutions for sustainable cancer care and improve patient outcomes in the future



Create political and public engagement on the need to improve the efficiency of cancer care



Focus first on what matters most to patients and make sure resources are targeted towards achieving these outcomes

1. Porter ME. What Is Value In Health Care?



Some other ongoing initiatives



Oncology-focused initiatives

- ESO Task Force on Innovation
 & Obsolescence in Cancer
- World Oncology Forum



European CanCer Organisation

 Improving access to innovation in cancer care (position paper)



European Observatory on Health Systems and Policies

Health System Efficiency:
 How to make measurement matter
 for policy and management



European Commission

- Joint Report on Health Care and Long-Term Care Systems & Fiscal Sustainability (2016)
- Efficiency estimates of health care systems (2015)



Organisation for Economic Co-operation and Development

 Tackling Wasteful Spending on Health (2017)



Right Care Alliance

The Lancet Right Care series (2017)



All.Can members (January 2017)

Matti Aapro

Clinique Genolier

Szymon Chrostowski

Let's Win Health Foundation

Francesco Florindi

European Cancer Patients Coalition

Francesco de Lorenzo

European Cancer Patients Coalition

Benjamin Gandouet

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The Health Policy Partnership

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Member of the European Parliament

Wendy Yared

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Bristol Myers-Squibb

Isabel Roquete

Amgen

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MSD























All.Can in 2017 – proposed activities

- Gathering of evidence of waste and inefficiencies in cancer care from the patient's perspective
- Development of a Patient Toolkit to help patients discuss how cancer care may be more focused on delivering optimal outcomes
- Pilot study looking at how we can measure efficiency of cancer care in practice and do this systematically across the health care system
- Further exploration of the role of health information in improving the efficiency of cancer care
- European-level policy engagement, through EU mechanisms such as the European Semester
- All.Can summit gathering examples of best practice across Europe



Delivering the services that patients want

How can we really put the patient at the core of improving cancer care?

Kathy Oliver
The International Brain Tumour Alliance



The start of a new year...

...a time of reflection, looking back at the past year and anticipating the forthcoming one.



What do patients value?

Survival

Quality of life

Fewer side effects

Supportive care

Rehabilitation

Palliative care



In order to give value in healthcare, we need to focus on what positive outcomes we wish to achieve



and those outcomes must be patient-centred



"We need to eliminate what brings little or no benefit to patients and prioritise interventions that offer the greatest benefit to patients and value to the healthcare system overall."

All.Can. Towards sustainable cancer care: Reducing inefficiencies, improving outcomes. 2017.



A focus on outcomes, not just costs

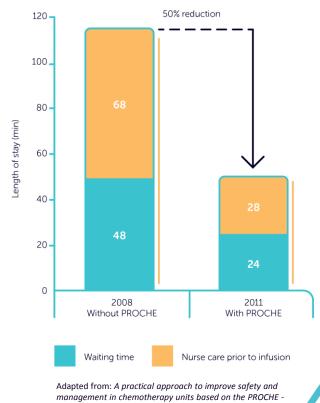
The ultimate goal of healthcare: to improve patient outcomes, and to do it as efficiently as possible

- Past efforts to improve efficiency often solely focused on cost reduction rather than improving patient outcomes
- Care quality metrics guiding investment are often process metrics, for example lab test results or the number of procedure performed, rather than patient-relevant outcomes
- To underpin any efficiency efforts and help guide decisions, we need comprehensive real-world patient data on patient-relevant outcomes



The PROCHE programme: better chemotherapy delivery for patients

- Problem: a patient at a chemo appointment is asked on arrival about side effects.
 Reported side effects may result in having to modify or postpone treatment, causing delays and wasted drugs
- Solution: a nurse calls patients two days ahead of the chemo appointment to ask about the last side effects in order to adjust treatment plans for the next appointment
- Result: treatment delays reduced by half, patients report less pain and fatigue, more patients treated per day, fewer drugs wasted



Adapted from: A practical approach to improve safety and management in chemotherapy units based on the PROCHE programme for optimisation of the chemotherapy network monitoring program (2013)



Adapting care to paediatric patients

- Problem: ~80% of paediatric patients need sedation for imaging tests.
 Scans must be rescheduled if unable to provide sedation
- Solution: GE Healthcare re-painted imaging machines in child-friendly themes. This low-tech innovation changed paediatric patients' perception of the tests
- Result: the number of children needing sedation dropped, more patients scanned per day, overall patient satisfaction scores up by 90%



Image source: the Eye, Slate's design blog. www.slate.com/blogs/the_eye/2013/10/18/creative_ confidence a new book from ideo s tom and david kelley.html



Image source: http://medcitynews.com/2012/04/ what-do-coral-reefs-have-to-do-with-your-childs-ct-scan -just-ask-ge-healthcare/



PAPERFUGE – hand-powered centrifuge

- Problem: Commercial centrifuges cost thousands; sometimes no electricity/ infrastructure/roads so it is very difficult to treat disease
- Solution: Hand-powered paper centrifuge, string and plastic.
 Costs 20 cents
- Result: Spins biological samples at up to 125,000 rpm, separates plasma from blood samples in 90 seconds. It could transform care for diseases like malaria, HIV/AIDS in the poorest of countries



Photo credit: Kurt Hickman /Stanford University/http://www.npr.org/sections/health-shots/2017/01/10/508415046/childrens-whirligig-toy-inspires-a-low-cost-laboratory-test



We need to ask ourselves

- Are we genuinely and meaningfully understanding what patients value?
- Are we aiming for the outcomes that patients want?
- Are we using the limited money we do have for health care in the most efficient way?
- Can we achieve better value by thinking differently and more creatively about how we use our resources?



And...

- Are we being collaborative across the whole health care spectrum? Silos are great down on the farm but have no place in healthcare!
- How can we stamp out waste and duplication in our health care systems and re-allocate the money which is saved so that we can deliver real and meaningful value?



"Better is possible. It does not take genius.

It takes diligence.
It takes moral clarity.
It takes ingenuity.

And above all, it takes a willingness to try."

Atul Gawande, Better: A Surgeon's Notes on Performance



The power of data to drive outcomes-based efficiency

Dr Jason Arora
International Consortium for Health
Outcomes Measurement (ICHOM)



Two examples

1. Martini Klinik

2. Blue Cross Blue Shield of Michigan



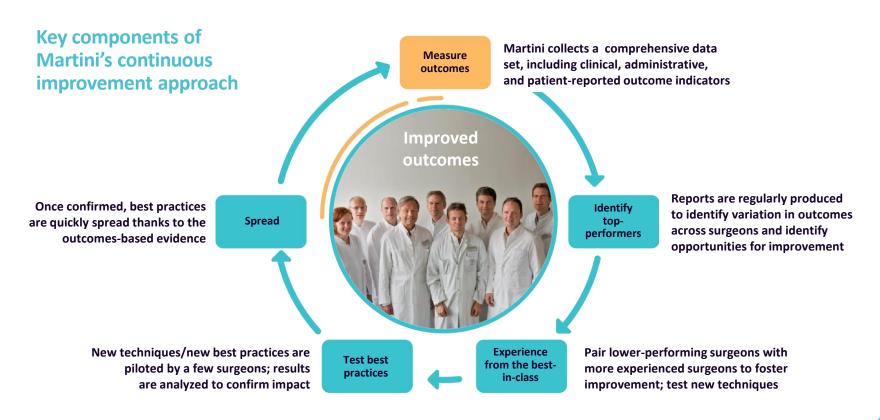
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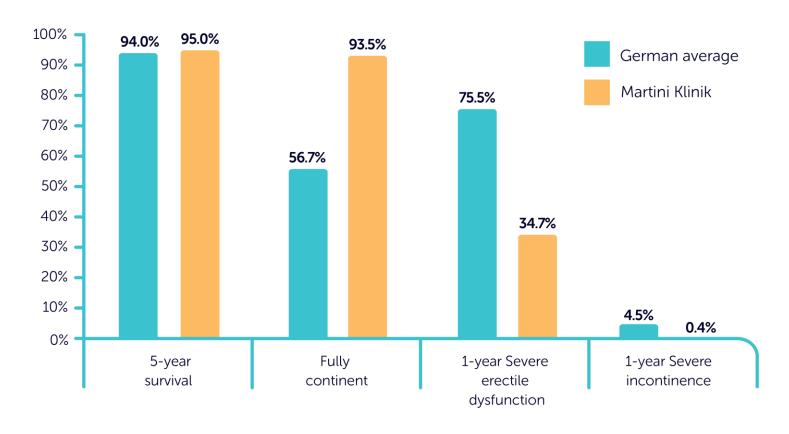
The Martini Klinik use routine outcomes measurement to achieve excellent results in prostate cancer care



Martini Klinik's strategy led to the adoption of surgical techniques that improved care rapidly and dramatically



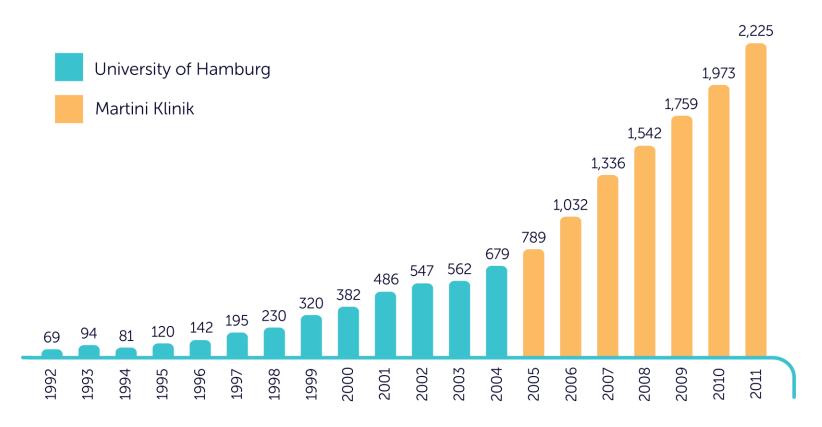
The impact of focus and teamwork



Source: BARMER GEK Hospital Report 2012, Martini-Klinik database



Measurable clinical success led to operational success



Source: Martini Klinik quality report "Kompetenz durch Wissenschaft"; Note: data not available for 2010-2012



Two examples

1. Martini Klinik

2. Blue Cross Blue Shield of Michigan



Payers drive value and lower costs through outcomes focus

BCBS of MI shows potential for "win-win" by collaborating with providers to improve outcomes

BCBSM funds provider-led Collaborative Quality Initiatives – focus to improve outcomes

- BCBS-funds provider data collection and analysis across 20+ Collaborative Quality Initiatives (CQIs)
- CQI Coordinating Center (U. of MI) evaluates providers' outcomes and reports results to providers
- Clinician-led provider meetings showcase best-in-class care and discuss improvement opportunities
- Patient representatives included in discussion to ensure initiative maintains strong patient focus

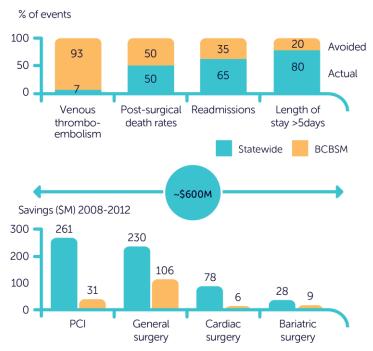


* PCI data 2009-2012, card surg 2009-10, gen surg 2008-12, bariatric surg 2008-12 1 http://www.bcbs.com/healthcare-news/plans/bcbsmi-healthcare-quality-efforts-with-hospitals-save-597-million-statewide-over-five-year-period.html



CQIs proven to improve outcomes and drive dramatic reduction in costs – \$600M in four years

Actual vs. avoided events based on % change 2007-2012 levels – bariatric surgery¹



Michigan model involves continuous collaboration between three players: payer, providers, and coordinating center

Identified data is not shared or reported publicly and the payer only sees de-identified data

Coordinating Centre

- Clinical leadership in QI
- Performs the risk-adjustment and comparative performance analysis
- Shares performance with providers, reports de-identified data to payer
- Convenes regular meetings to discuss best practices and progress



Payer

- Funds data collection and coordinating centre infrastructure
- Provides administrative oversight
- Analyses/shares population-level outcomes data publicly

Providers

- Routinely collect/abstract patient data and submit data to registry
- Participate in consortium-wide quality improvement activities

Regularly scheduled collaborative-wide meetings are critical to each initiative's effectiveness and success



All.Can's potential journey to achieving high-value cancer care for patients across Europe

Contribute to a greater understanding of how we may measure 'efficiency' of cancer care in a systematic way, for example by:

- 1. Developing standardised, patient-centred Standard Sets to help us measure true success in cancer care
 - ICHOM has developed globally standardised outcome sets (Standard Sets) for Lung, Prostate, Breast and Colorectal cancers, and will soon be developing a core cancer Standard Set
- 2. Facilitating the measurement of these Standard Sets across health systems to generate high-resolution, patient-centred outcomes data
- 3. Pooling and analysing the data
- 4. Using these data to learn how to deliver the best possible patient-centred outcomes at the lowest cost



Panel discussion

Dr Matti Aapro, Clinique de Genolier, Switzerland

Kathy Oliver, International Brain Tumour Alliance

Dr Jason Arora, International Consortium for Health Outcomes Measurement (ICHOM)

Emmanuel Blin, Chief Strategy Officer, Bristol-Myers Squibb

Herb Riband, VP Value Access and Policy, Amgen

Many thanks All.Can