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The Oncologist published online February 3, 2014

The online version of this article, along with updated information and services, is located on the World Wide Web at:
http://theoncologist.alphamedpress.org/content/early/2014/01/31/theoncologist.2013-0452
A Catalyst for Change: The European Cancer Patient’s Bill of Rights

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INTRODUCTION

Cancer and the provision of cancer care places a significant and growing burden on patients, citizens, and economies. Europe provides some of the best cancer care in the world and conducts high-quality, globally recognized cancer research. There are still significant disparities, however, in public information about cancer, accessing cancer care, delivering optimal treatment, supporting cancer survivorship, and integrating cancer research and innovation across European countries. In addition, costs of current treatments and long-term follow-up are placing significant economic burdens on European health care systems. Improvements in quality of care, translation of research discoveries, and promotion of innovation will have to be achieved within affordable economic models.

Acknowledging these challenges, a group of European oncology leaders have formed a partnership with cancer patients and their representatives. The European Cancer Concord (ECC) is a unique patient-centered partnership that will act as a catalyst to achieve improved access to an optimal standard of cancer care and research for European citizens. The strength of this partnership among health care professionals, patient advocacy organizations, and patients is essential to bring about the changes required to improve cancer-related outcomes across Europe. Cost-effective cancer care and cancer research excellence can contribute significantly to the wealth and health of the European citizen.

Strengthening and upholding the rights of individual cancer patients and their families are the guiding principles of this initiative. In order to provide tangible benefits for European cancer patients, the ECC proposes the creation of a “European Cancer Patient’s Bill of Rights,” a patient charter that will underpin equitable access to an optimal standard of care for Europe’s citizens. Three patient-centered principles (termed “Articles”) underpin the European Cancer Patient’s Bill of Rights:

**Article 1:** The right of every European citizen to receive the most accurate information and to be proactively involved in his/her care.

**Article 2:** The right of every European citizen to optimal and timely access to appropriate specialized care, underpinned by research and innovation.

**Article 3:** The right of every European citizen to receive care in health systems that ensure improved outcomes, patient rehabilitation, best quality of life and affordable health care.

**THE GLOBAL BURDEN OF CANCER**

At a global level, the burden of cancer is rising, with incidence projected to increase from 12.7 million in 2008 to 21.4 million in 2030 [1]. Cancer represents a significant cause of mortality worldwide, with 7.6 million deaths in 2008 [2]. In the developing world, cancer causes more deaths than HIV/AIDS, tuberculosis, and malaria combined [3]. Morbidity and quality-of-life issues impose an additional burden, reflected in the loss of ∼170 million healthy life-years worldwide due to cancer and its sequela in 2008 [4]. That figure translates to a global economic impact from premature death and disability of €895 billion, equivalent to 1.5% of the world’s gross domestic product [5].

**The Burden of Cancer in Europe**

In Europe in 2012, there were an estimated 3.45 million new cases of cancer and 1.75 million cancer deaths [6]. The aging population will result in significant increases in absolute numbers of cancer cases over the next 30 years [7, 8]. The recently released World Health Organization report, European Health Report 2012: Charting the Way to Well-Being, highlights the significant burden that cancer places on the European citizen [9]. In 28 of the 53 countries covered by the report, cancer has replaced cardiovascular disease as the leading cause of premature death [9, 10]. This increasing cancer burden will not only affect patients and their families...
but will also be a significant issue for health care systems and for the future economic competitiveness of Europe.

Cancer in Europe: The Positives

Impressive progress in cancer control has been achieved in the last 30 years, with European scientists and clinicians contributing significantly to gold standard advances that have improved cancer outcomes globally. Measurable improvements have been achieved for certain cancers, including testicular, breast, malignant lymphoma, gastric, colorectal, and leukemia. Many of these advances emphasize how pan-European collaborative approaches can yield significant benefits for cancer patients [11]. In addition, public health policies on tobacco have reduced the incidence of lung and other tobacco-related cancers in men, although lung cancer mortality in women will soon surpass breast cancer in the European Union [12]. Ireland became the first country in the world to introduce a national ban on smoking in the workplace, catalyzing a pan-European approach to reducing tobacco use. European scientists have been at the forefront of innovative screening and vaccination approaches for cervical cancer [13, 14]. Moreover, Europe has promoted the development of meritocratic pan-national research networks (e.g., L’Institut National du Cancer in France [15] and the National Cancer Research Institute in the United Kingdom [16]) and effective pan-European collaborative groups (e.g., European Organisation for Research and Treatment of Cancer, TransBIG, Pan-European Trials in Adjuvant Colon Cancer, and the CONCORD study [11, 17–19]) that have supported Europe’s leadership in large practice-changing randomized clinical trials. Increased participation in these trials and associated translational research studies have allowed European patients to benefit from the latest diagnostic and therapeutic advances; however, there are significant disparities between Europe and the U.S. and particularly within Europe itself in accessing optimal care and innovative cancer treatment in a timely fashion.

Cancer in Europe: The Negatives

The recent series in The Lancet on “Health in Europe” highlighted increasing disparities both between and within countries in Europe [20], with cancer a prime example of this inequality. Significant differences in cancer survival rates persist between individual European countries and regions [21, 22] and are linked to socioeconomic status [23, 24], patient age [25], access to quality care [22, 23], and lack of a comprehensive National Cancer Control Plan (NCCP). The just-published EUROCARE-5 study, although indicating a trend of improving survival throughout Europe, highlights significant disparities in outcome between different European nations [26]. The lack of cancer registration data in many European countries, combined with a significant dearth of population-based clinical efficacy data (outside the context of clinical trials), needs to be addressed. The current pricing of certain cancer drugs is becoming unsustainable, as was recently highlighted by a large group of international experts involved in the treatment of chronic myeloid leukemia [27]. Although genetic testing is crucial in identifying risk in a number of inherited cancers, countries such as Romania have no public access to BRCA1/2 testing (A. Eniu, Cancer Institute “I. Chiricuta” Department of Breast Tumors, Cluj-Napoca, personal communication). Worrying disparities identified at all stages of the cancer continuum (Table 1) reflect the challenges to delivery of effective cancer health care in Europe.

A further obstacle to providing optimal treatment has been the European Clinical Trials Directive. Its introduction in 2001 corresponded with a 25% overall reduction in the number of clinical trials in Europe, and in certain countries, the reduction has been more than 50% [28]. Given these figures, it is imperative that the current revision of the directive [29] ensures more effective clinical trial activity for the European cancer patient. The two-step process for registration of new drugs—involving both European Medicines Agency approval and, in many countries, a health technology assessment—along with a variety of local issues (e.g., pricing negotiations, costs) can also lead to significant differences in time to access for new therapeutic interventions between European nations when compared with the U.S. Recognizing that incremental innovation must be pursued to foster research, a Europe-wide harmonization of health technology assessment methods, mediated through collaborative networks such as the European Network for Health Technology Assessment [30], is necessary to close the gap in access to new diagnostics and treatments (radiotherapy, surgery, medicines, devices).

<table>
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<th>Table 1. Disparities in cancer health care in Europe</th>
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<td>Patient-oriented cancer education</td>
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<td>Access to information and support</td>
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<td>National/regional cancer prevention strategies</td>
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<td>Access to comprehensive evidence-based cancer screening programs</td>
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<td>Structured national/regional cancer care delivery, including availability of new and existing diagnostics and therapies</td>
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<tr>
<td>Pricing of cancer drugs and therapies</td>
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<td>Access to appropriate pain management</td>
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SHAPING A PATIENT-ORIENTED STRATEGY FOR CANCER CARE IN EUROPE: THE ECC AND THE EUROPEAN CANCER PATIENT’S BILL OF RIGHTS

Recognizing the need to address the pressing issues noted and to place the cancer patient at the heart of the solution [31], the ECC has been established, comprising European oncology leaders in a unique partnership with cancer patients, caregivers, and their advocates (supplemental online Appendix 1). The strength of this cooperative approach is essential to accelerate the changes required to improve cancer-related outcomes for all European citizens. The ECC is a patient-centered partnership that aims to enable improved access to public education about cancer, cancer care, cancer research, and innovation. The ECC is dedicated to improving the outcomes for all cancer patients in Europe by promoting a shared understanding of the key issues in cancer awareness, research, prevention, rapid access to appropriate specialized treatment, care delivery, rehabilitation, and patient survivorship and by mobilizing all stakeholders to implement improved
innovation in cancer care in a cost-effective manner across Europe.

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As part of a “Wealth is Health” strategy that empowers European citizens, the ECC has created a European Cancer Patient’s Bill of Rights, a charter to challenge the current inequalities that cancer patients in Europe experience on a daily basis. This bill of rights defines fundamental pan-European quality standards for provision of information, access and delivery of cancer care and research to European citizens. Through this patient-focused approach, the ECC enshrines the principles of equitable access to an appropriate and earliest possible diagnosis and a defined optimal quality of specialized care and clinical management for every cancer patient across Europe. Optimal cancer care not only contributes to the health of European citizens but also provides demonstrable economic benefit, with earlier access to high-quality diagnosis leading to more successful therapeutic intervention and facilitating a return to more active daily living, including a return to the workplace when relevant.

**Realizing the Vision: The European Cancer Patient’s Bill of Rights**

Three patient-centered principles underpin the European Cancer Patient’s Bill of Rights:

**Article 1: The right of every European citizen to be informed and involved in his/her care**

Cancer services must be patient centered, reflecting the views and needs of patients and their families. Individuals may have different perceptions of their needs than health care professionals. Good communication between health care professionals and patients will greatly improve care and enhance patient satisfaction. Shared decision making, involving a two-way transparent process between the health care providers and the European citizen, must be the overarching theme of this first principle. The full text of Article 1 is shown in Figure 1.

**Article 2: The right of every European citizen to optimal and timely access to appropriate specialized care, underpinned by research and innovation**

Access to essential cancer services must be the right of every European citizen, regardless of socioeconomic status, gender, age, or nationality. Clear pathways of access to clinical innovation and associated research activities must inform all stages of the patient’s cancer journey. This second principle depends on equitable and transparent access to optimal cancer care. The full text of Article 2 is shown in Figure 2.

**Article 3: The right of every European citizen to receive care in health systems that ensure improved outcomes, patient rehabilitation, best quality of life, and affordable health care**

Cancer care at a national level must be organized in health care systems according to an integrated, efficiently budgeted NCCP that conforms to European guidelines and best international practice. The NCCP should develop a cancer center/cancer network/multidisciplinary team model that captures all aspects of cancer care, research, and innovation, from diagnosis through treatment and rehabilitation, including patient survivorship and end-of-life care. A comprehensive and holistic approach, encompassing the entire cancer care continuum, must inform this third principle. The full text of Article 3 is shown in Figure 3.

**Advancing the Cancer Agenda in an Era of Economic Austerity**

Strengthening health care systems is key to delivering strategies that will gain traction in optimizing cancer outcomes. In addition to the increasing health burden, the need to consider affordability and methods to “bend the cancer cost curve” [32] must be addressed. Policy leaders, health care professionals, pharmaceutical and medical technologies industries, patients, and patient advocacy organizations must engage constructively to deliver tangible solutions. The American Society of Clinical Oncology has “identified the rising cost of cancer care as an opportunity to sharpen the focus on the need to ensure high-quality care while reducing unnecessary expense for our patients, their families, and society at large” [33]. Recently, the Institute of Medicine’s National Cancer Policy Forum convened a public workshop, “Delivering Affordable Cancer Care in the 21st Century,” to investigate ways to ensure that patients have access to high-quality, affordable cancer care in these times of economic austerity [34]. The subsequent report, “Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis” [35], underscores the burgeoning challenges that cancer presents to the U.S. health care system, particularly when we consider that the population aged 65 years or older in the U.S. will increase from ~40 million in 2009 to nearly 90 million by 2050 [36].

In Europe, increasing cancer incidence has not been matched by proportionate rises in cancer-related spending within European health budgets, as is particularly evident with the differences in the percentages of gross domestic product spent on health care. There are significant differences in cancer care budgets across Europe [20, 37–39], particularly in cancer health care spending in Central and Eastern Europe [37, 38], and these differences, combined with the inability to provide standard-of-care technologies in different European countries at prices based on national purchasing power, contribute to a lack of equity that must be addressed. A recently published study of the economic burden of cancer in the EU-27 countries (EU members from January 2007 through June 2013) found major differences in spending per cancer capita between countries [40].

Under-resourcing of cancer health care, particularly in the context of an increasing cancer burden, will lead to increased morbidity and mortality, spiraling associated health costs, and significant loss of productive life-years and will negatively
Innovation as a Key Driver of Improved Cost-Effective Cancer Care
The economic burden of cancer worldwide is now approaching €1 trillion, and the associated lost years of life and productivity mean that cancer now places the largest economic drain on the global economy of any disease in the world [5]. Cancer diagnostics (imaging, biomarkers) and therapies (surgery, radiation, new medicines and devices) have led to statistically significant increases in 1-year and 5-year survival rates and improvements in cancer outcomes, with significant quality-adjusted benefit achieved at a fraction of the economic cost of increased morbidity, mortality, and loss of productive life-years [41–46]. A clear example of this progress is breast cancer, for which more effective management by innovative diagnostic and therapeutic approaches has been accompanied by approximately a fivefold increase in return on investment [42, 45]. In France, it is estimated that diagnostic and therapeutic innovation has contributed to a significant decline in cancer mortality rates in the period 2002–2006 [42, 44, 46].

It is important to stress, as voiced by many participants at the recent Institute of Medicine workshop [34], that diagnostic and therapeutic innovation can increase the value of improved health and outweigh the additional costs only if implemented with a structured, cost-effective approach that emphasizes measurable improvements in outcome for the cancer patient [33, 37]. In this regard, innovative models such as L’Institut National du Cancer’s national genomics platform support a personalized medicine approach that delivers quality cancer care for the patient and value for money for the health care payer [42, 47]. Resourcing and pricing issues must be addressed in a meaningful and transparent fashion to achieve a just price, as highlighted in the recent article [48] and accompanying editorial [49] in the Journal of Clinical Oncology, ensuring optimal value in the delivery of quality care for patients. The use of comparative effectiveness research to help
pursue a strategy that balances value and cost, leading to a quality, cost-effective solution for cancer patients, is pertinent to this debate. Maximizing clinical trial and research activity at the pan-European level also provides an unrivaled framework for delivering “added value” for European patients and should be vigorously pursued.

Our vision for improved cancer care for European citizens, empowered by research and innovation, aims to encourage the delivery of cost-effective, evidence-based care that will improve outcomes for cancer patients, consistent with the aims of the World Cancer Declaration, which calls for significant improvement in global cancer survival rates by 2020.

The European context, innovation as a key driver of improved cancer care complements the vision of the European Partnership for Action Against Cancer, which is committed to reducing the cancer burden by 15% by 2020, and is consistent with the Innovation Union and the Europe 2020 growth strategy of the European Union. It also provides an impetus to the Council of the European Union’s conclusions on “Reducing the Burden of Cancer” [52].

The European Cancer Patient’s Bill of Rights builds on other cancer-focused initiatives, particularly the Charter of Paris [51] but also the World Cancer Declaration of the Union for International Cancer Control [50], the European Code Against Cancer [53], and the “Stop Cancer Now!” campaign, launched by the European School of Oncology following the World Oncology Forum in Lugano, Switzerland [54]. The ECC’s commitment to establishing a charter for cancer patients, achieved through a vibrant and equal partnership among health care professionals, cancer patients, and their representatives and bolstered by robust health economic principles, aims to deliver a unique “Wealth is Health” initiative that promotes optimal cancer care and research, reduces loss of productive life-years, enables active survivorship and rehabilitation, and increases health care innovation, thus leveraging wider benefits for European citizens and societies. The principles of equity and transparency will

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**Article 2: The right of every European citizen to optimal and timely access to appropriate specialized care, underpinned by research and innovation.**

*European Patients should have:*

1. Timely access to validated diagnostics, to ensure accurate and earliest possible diagnosis of their cancer.
2. Their diagnosis provided to them in an accurate and compassionate manner, by a specialist/experienced clinician.
3. Timely access to an optimal quality of appropriately specialized care, including relevant clinical research and innovation, to ensure best possible outcomes.
4. Care delivered locally wherever possible and centralized where recommended by nationally or internationally approved guidelines and expert treatment recommendations.
5. Access to appropriate psychological support at all stages of their cancer journey, to deal with the impact of screening, diagnosis, treatment, quality of life and survivorship.
6. The right to choice of location for diagnosis and treatment, even across national borders.
7. Rapid access to the latest innovations in diagnosis and treatment for the individual cancer patient following relevant regulatory approval.
8. The right to access care based on their need and not on their ability to pay for it.
9. The right to expect research to be conducted on their particular cancer type and to be offered access to clinical studies where available and relevant to their condition.
10. In the case of children with cancer, the right to be treated in a specialized pediatric oncology center/unit.

Figure 2. Article 2, European Cancer Patient’s Bill of Rights.
Article 3: The right of every European citizen to receive care in health systems that ensure improved outcomes, patient rehabilitation, best quality of life and affordable health care. 

Patients should receive care in health systems that:

3.1 Are underpinned by National Cancer Control Programs (NCCPs), organized according to national guidelines and regularly reviewed by external experts, including patient representatives.

3.2 As part of the NCCP, results should be audited to ensure optimal progress and benefit for the cancer patient.

3.3 Provide cost effective care at all stages of the cancer journey, from early diagnosis through treatment and supportive care, that conforms to quality standards of care.

3.4 Address the key issues of long term follow-up and patient survivorship to ensure best quality-of-life and personal fulfillment with active re-integration and participation in society and the work place.

3.5 Ensure optimal pain and symptom management strategies are in place for cancer patients.

3.6 Encourage and maintain sufficient expertise and experience in treating particular cancers, including education and training for all healthcare and allied professionals involved in patient care.

3.7 Recognize patient advocacy organizations as equal partners in all aspects of cancer care, research and innovation.

3.8 Are coordinated by appropriately specialized Multi-disciplinary Teams (MDTs), which must conform to national requirements, driven by recognized pan-European guidelines.

3.9 Have timely and transparent referral and follow-up between community health care/primary care professionals and cancer units or centers.

3.10 Respect the patient, ensuring necessary treatment within an optimal and predetermined period of time.

3.11 Ensure that the patient is protected from harm caused by potentially poor functioning health services, medical malpractice or errors.

3.12 Recognize and promote high quality clinical research innovation and participation in clinical trials.

3.13 Involve patients, care-givers and patient advocacy organizations in all aspects of design and conduct of patient-centered clinical research.

3.14 Implement and maintain a high-quality integrated palliative care strategy.

CONCLUSION

Cancer is placing an increasing health, economic, and societal burden on Europe’s citizens. The current disparities between European nations at all stages of the cancer patient’s journey are no longer acceptable. In the context of the World Cancer Declaration and the Europe 2020 strategy, we must respond urgently to this pressing challenge or face a major epidemic that will have a significant impact on both the wealth and the health of the European citizen. The ECC is actively engaging with all relevant stakeholders to deliver its vision and partnering with patients and advocacy groups, learned societies, cancer registries, industry, governmental agencies and health care payers, the European Commission, the European Medicines Agency, health technology assessment agencies, cancer charities, and other key stakeholders. The principle of inclusivity will be actively pursued, ensuring that the European citizen receives the maximum support and benefit from this initiative. The vibrant engagement of health care professionals and patients can help achieve progress in innovation, research, and care to deliver improved outcomes for cancer.
patients in Europe. The European Cancer Patient’s Bill of Rights is a key early output, representing an important first step in a strategy to deliver measurable benefits for European society as a whole. Launching this bill of rights in the European Parliament on World Cancer Day, in partnership with European cancer patient organizations and Members of the European Parliament Against Cancer (MEPs Against Cancer), represents a clear commitment to promulgating and implementing this catalyst for change for European citizens. If successful, it may also provide a model for developing collaborative patient-centered approaches to deliver equitable cancer care in other regions throughout the world.

ACKNOWLEDGMENTS

The authors thank the Society for Translational Oncology (STO) for its stewardship of the European Cancer Concord initiative.

STO gratefully acknowledges unrestricted educational support from Sanofi Oncology, Bayer, Bristol-Myers Squibb Foundation, Irish Cancer Society, Saatchi and Saatchi Science, and Publicis Healthcare Communications Group. The creation, composition, and submission of this manuscript were exclusively performed by the authors, who are solely responsible for its content. The authors dedicate this manuscript and the European Cancer Patient’s Bill of Rights initiative to Prof. Donal Hollywood, who passed away in 2013 due to cancer.

AUTHOR CONTRIBUTIONS

Author contributions available online.

DISCLOSURES

Disclosures available online.

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Supplementary material can be found at:
http://theoncologist.alphamedpress.org/content/suppl/2014/01/31/theoncologist.2013-0452.DC1.html