Optimising the response to the epidemic of chronic diseases

European Chronic Disease Alliance input to the Reflection Process on chronic diseases
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Executive Summary

Chronic, non-communicable diseases are a challenge of epidemic proportions. At a global scale, non-communicable diseases are estimated to cost $47 trillion by 2030. Europe currently has the highest number of deaths and disability in the world due to these diseases.¹

This paper represents the European Chronic Disease Alliance’s (ECDA) collective input to policy makers in the frame of the European Union’s reflection process on chronic disease, specifically called for in the Council conclusions of 7 December 2010 on “Innovative approaches for chronic diseases in public health and health care systems”.² The ECDA would like to urge the European Commission and the Member States to include the recommendations provided herewith in any forthcoming strategy on chronic diseases.

For the purpose of this paper, the ECDA definition for “chronic diseases” is: Chronic non-communicable disease or conditions that are of long duration and generally slow progression, linked by common risk factors such as tobacco, physical inactivity, nutrition, alcohol, environment, and are largely preventable.

On the basis of these Council conclusions, this paper recommends a number of concrete measures that can be taken by the European Commission and Member States to tackle chronic diseases effectively. First and foremost the ECDA calls for a coordinated EU-led strategy to tackle the enormous challenge to societies posed by chronic diseases.

Health promotion and disease prevention:

- The Member States and the European Commission need to be proactive in preparing for a progress review to be presented at the next UN Summit in 2014. Europe, with the highest burden of non-communicable diseases (NCDs), needs to be the leader.

- The ECDA urges the European Commission and EU Member States to allocate more funding to preventive measures. In the current financial turmoil, many European countries have adopted drastic measures that have seriously affected access to care for chronic non-communicable disease patients. Yet, the economic crisis should be used as an opportunity to explore new and innovative ways of tackling chronic diseases.

- The EU should build on its expertise and utilise the tools at its disposal to develop an environment that promotes health and encourages citizens to make healthy choices, and pushes for a reform of existing structures. The “ex-smokers are unstoppable” campaign of the European Commission is innovative and should be commended. The “school fruit scheme” is also to be commended for its great potential to increase fruit and vegetable intake across Europe.

- The EU can use legislative tools such as advertising restrictions on unhealthy products, regulating salt and fat content etc to promote health and behavioural change in practice.

• Several Council Conclusions address health inequalities. Member States should now implement them. Simple steps include improved access to good quality air, water, food, sporting, recreational and cultural facilities and green space. They all contribute to reducing inequalities as well as helping to create sustainable communities. Improvements in housing conditions have been shown to have a number of positive impacts on health, including lower rates of mortality. Adequate heating systems improve asthma symptoms and reduce the number of days off school. The European Commission can aid this process by facilitating exchange of best practice.

• Investing in the early years is key to preventing ill health later in life. An increased investment in public health promotion is important to increasing efficiency in the health service. A small shift in resource towards public health promotion activity would offer significant short, medium and long term savings to health care services and to the taxpayer. Effective and evidence-based health promotion programmes should be implemented. The European Commission is in a unique position to promote such activities and to take on a long-term and visionary approach.

• We need to measure, monitor and report on action taken in the Member States on chronic diseases. To facilitate monitoring and reporting of progress, a number of targets could be set e.g. 25% reduction in mortality by 2025. Much more must be done to tackle the causes of ill health rather than cure its consequences. It is time to recognise health promotion as an investment with significant economic and welfare gains.

• The EU has legal competence to respond to many of the calls in the UN political declaration on NCDs.

Health in all policies

• The EU must put greater emphasis on ensuring the implementation of health in all policies. In accordance with the Lisbon Treaty, the EU must ensure that policies that have an influence on the health of EU citizens must promote health and healthier lifestyles. Any balanced and sensible government policies must aim to influence not only the fields of health and research, but also areas such as agriculture, transport and communication, environment, regional development and finance. Moreover, the European Union financial instruments including Structural Funds, European Agricultural Fund for Rural Development and EU-funded research should contribute to creating healthier European societies. These possibilities for health promotion must be explored further and implemented.

• Government policies should also aim to devolve more power at the local level and thereby empower individuals and communities to define the problems and develop community solutions. The Committee of the Regions / Eurocities and other relevant actors should be engaged in such actions.

Early detection

- Early detection and diagnosis, greater international collaboration, implementation of population-based quality assured screening programmes, evaluation of social inequalities and development of novel tools to detect chronic disease in at-risk populations are all measures that should be encouraged at Member State level.

Tobacco

- We need to step up efforts to ensure that the recommendations of the Council on smoke-free are implemented if we are to be serious about protecting Europe’s citizens from chronic diseases caused by tobacco smoking.

- The European Commission has a unique legislative opportunity to bridge this gap in effective communication through a robust and strong revision of the Tobacco Products Directive. Introducing large mandatory pictorial warnings (front and back), and standardised packaging, would substantially increase the provision of information to European citizens on the disastrous consequences of tobacco use. We fully endorse the position of the European Parliament which has emphasised the need for an immediate, effective revision of the Tobacco Products Directive.

Nutrition

- The European Commission has immediate opportunities for facilitating better food choices by merely allowing health claims that are easy to understand and relevant to public health and proposing a nutrient profiling system to allow claims only on healthier options.

- We need to improve the availability of, and access to, healthier food choices among low-income groups. This would involve population-wide interventions such as reducing salt and saturated fat in products.

Alcohol

- Across the EU there is a need to increase awareness of the effects of harmful consumption of alcohol.

- Steps should be taken to ensure the implementation of the WHO Global Strategy to Reduce the Harmful Use of Alcohol.

- Liver disease recognition and treatment of alcohol misuse in primary care should be promoted.

Physical Activity

- There is a need to create and develop healthy and sustainable places and communities with a role and action from both central and local governments.

- It will be important to promote physical activity also as a normal part of health care, and actions should be taken to include guidance on how to translate general public health
recommendations on physical activity into levels that correspond to the capacity of a patient. Physical activity not only delays onset of chronic diseases but is also important for reducing severity of disease.

Health care

- Specific efforts are needed at Member State level for the deployment of existing, cost effective e-health solutions and other innovative measures applicable to chronic diseases e.g. phone-based SOPHIA project that supports people living with diabetes in France and that has proven to have a very positive effect on health outcomes. There is also a strong need for more research and evidence, including large scale clinical trials, economic analyses, models for preventive and predictive care. DG Information Society needs to strengthen current efforts in e-health solution deployment and research.

- The importance of prevention must be emphasised. Having a simple screening tool, adapted to the primary care setting, that would detect diseases in early stages would reduce the number of patient referrals. This would result in fewer later stage cases of disease and consequently, better quality of life for patients, and result in savings for the health care burden.

- The use of managed clinical networks, multidisciplinary teams and collaborative efforts across the lines of health care should be stimulated and funded by the Member States. These are crucial for the optimal management of complex conditions, and will need to be further developed across Europe.

- Reimbursement rarely covers prevention and health promotion and this is an area where Member States should continue to exchange information.

- Member States should also share best practices in empowering health personnel to deliver health. For example, educating and training staff in health promotion on topics such as the importance of smoking cessation, nutrition and physical activity, would help them provide practical advice to patients during routine checks. Health personnel can also help identify high-risk groups for chronic diseases by using validated risk-assessment tools.

- The management of co-morbidities is a major challenge often overlooked by evidence-based diagnosis and treatment using disease-specific clinical guidelines. A proper guideline programme leads to optimal management of chronic disease, with improved outcomes and a reduction in health inequalities across Europe and globally. An important goal for the future will be the production of truly multidisciplinary guidelines, which is particularly important in patients (especially the elderly) with multiple chronic conditions.

- A top priority for the Europe 2020 strategy is to emphasise that a major effort will be needed to combat poverty and social exclusion, and to reduce health inequalities (which includes the access to and affordability of health care) to ensure that everybody can benefit from growth.
Research

- With regard to European biomedical research, it is crucial that the funding strategy and priorities are defined together with the biomedical community. Today at EU level however health and research are separate policy areas. Only if experts are actively involved in the development of the research strategy and the identification of research needs can it truly address the challenges faced by science and society.

- To overcome the existing fragmentation and duplication of research in Europe in the health field, human health must be at the core. There is a major gap in translational research in Europe and better care delivery will only be possible if sustainable networks across Europe join together and share their resources to tackle the scientific challenges.

- More research is still needed on e.g. the ‘health in all policies’ approach to health and health promotion. More case studies are needed about the factors that influence individual behaviour and social norms. The search for common solutions must build on strong research cooperation across Member States. The Council of the European Union should also introduce regular meetings between health and research ministries.

European data and improved cooperation at European level

- ECDA recommends expanding the mandate of the European Centre for Disease Prevention and Control (ECDC) to include the monitoring and surveillance of major NCDs.

- It is important for decision makers to understand the direct and indirect costs of preventable disease and benefits of health promotion to society. Comparable data at EU level on incidence, prevalence, risk factors and outcomes, is urgently needed. EU registries are clearly missing.

- There is an urgent need to promote the adoption of common health data standards collected across Europe by different stakeholders, whether health institutions, health care organisations, public health entities, health professionals or health care industry.

- Cooperation with WHO in view of the Action Plan for a strategy on NCDs\(^6\) and OECD and medical/scientific societies should be strengthened.\(^7\)

What gets measured gets done

- We need to measure, monitor and report on action taken in the Member States and targets need to be set to facilitate monitoring and reporting of progress in this field.

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1. Introduction

“Chronic diseases are by far the leading cause of mortality in the world, representing 60% of all deaths worldwide and impose an enormous burden on the daily lives of patients and their relatives and on society as a whole.” – Council Conclusions, 7th December 2010.

Chronic non-communicable diseases account for 86% of deaths in the WHO European Region. They include cardiovascular disease, cancer, respiratory diseases, diabetes, kidney and liver diseases. Four major health determinants – tobacco, poor diet, alcohol and lack of physical activity – account for most of chronic illness and death in Europe. According to OECD on average only 3% of total health expenditure in OECD countries goes towards population wide public prevention. 97% of health expenses are presently spent on treatment. For more details on the above-listed four major health determinants, see Annex 1.

Health is the result of the accumulation of influences to which an individual is exposed since conception, and of the interactions of such exposures with individual biological characteristics. Lifestyle and behavioural factors largely contribute to the rise of chronic diseases. Tobacco use among women and girls is increasing in Europe, especially in Eastern Europe. Alcohol consumption is rising in this region as well. The prevalence of obesity and overweight is rising alarmingly among both adults and children. In Europe exposure to particulate matter reduces every person’s life expectancy by an estimated average of almost one year, mostly because of an increased risk of cardiovascular and respiratory diseases as well as lung cancer.

Migration into and within Europe is increasing. Migrants are typically younger, have lower income, have greater health needs, experience greater exposure to non-communicable disease risk factors and have less access to social protection and health care. Social inequity within and between countries is increasing with proven negative effects on the health and well-being of children and adolescents. In addition, demographic change, rise in chronic disease and higher consumer expectations are some of the factors driving up health care demand and spending. At the same time, Member States face budget constraints which affect public services. These pressures can only be met by adapting health systems in Europe and the way we view health.

All these factors require changes at policy and organisational levels as well as at the level of the community and individual. At the core of the challenge is implementation. Health promotion and disease prevention offers excellent opportunities for equitable improvement of health and longevity. Yet, despite this knowledge and significant evidence many governments have not responded with a Whole of Government or Whole of Society level approach.

The ECDA urges the European Commission and EU Member States to allocate more funding to preventive measures. In the current financial turmoil, many European countries have adopted drastic measures that have seriously affected access to care for chronic non-communicable disease patients. Yet, the economic crisis should be used as an opportunity to explore new and innovative ways of tackling chronic diseases.

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Health equals wealth. Investing in health means investing in people and ultimately, in the European economy, with big improvements happening in short time scales. Addressing chronic diseases will allow Europeans to live longer and healthier lives, staying longer in the workforce and contributing to productive growth of the economy.\textsuperscript{10} Health represents a strong economic sector, source of employment for professionals, and is a driver of innovation and research. A healthy population will contribute to the success of the EU2020. Currently, however, the expected healthy life years of Europeans is lower than the projected pension age, and Europeans will not be healthy enough to work longer. Policies need to change to tackle chronic diseases.

### 2. Implementing the UN political declaration on non-communicable diseases (NCDs) in the EU

Until recently, NCDs have not gained the attention of global policy-makers. In New York, world leaders unanimously adopted on 20 September the Political Declaration on Non-Communicable Diseases (NCDs), agreeing that “the global burden and threat of NCDs constitutes one of the major challenges for development in the twenty-first century, which undermines social and economic development throughout the world”. It was the second time in history that the UN has convened on the topic of health.

Governments must now deliver on their commitments in addressing the rising threat of cancer, cardiovascular disease, chronic respiratory disease and diabetes, and they should moreover include kidney and liver diseases in this process.

In the opening session of the plenary of the General Assembly, UN Secretary-General Ban Ki Moon said about the Political Declaration, “if this is only a set of words, we will have failed, but if it is followed by actions, we will honour our responsibilities”. The UN political declaration recognises that NCDs are a “challenge of epidemic proportions”. EU governments must live up to their commitments and honour their responsibilities. In view of this, ECDA recommends the following important measures to be taken:

1. The political declaration calls for an accelerated implementation of the FCTC. In the EU two measures can be taken to assist this goal:

   (i) Member States can support Art(s). 11 and 13 of the FCTC during the revision of the Tobacco Products Directive and the introduction of mandatory large pictorial warnings (back and front of the pack) and plain/standardised packaging;

   (ii) ECDA agrees with the statement adopted by 193 governments of the General Assembly that “price and tax measures are an effective and important means of reducing tobacco consumption” and urges finance ministers of the EU to increase the use of price and tax measures on tobacco.

2. The political declaration calls for an advanced implementation of the WHO Global Strategy on Diet, Physical Activity and Health. In the EU several measures can be taken to assist this goal:

(i) Ensure that all EU policies and programmes, including the Common Agricultural Policy (CAP) and Structural Funds undergo a health impact assessment to ascertain that they at the very least do not obstruct availability of and access to nutritious food and environments that are conducive to everyday physical activity;

(ii) Adopt legislation that minimises the level of industrially produced trans-fatty acids that can be present in foodstuffs to maximum 2 g per 100 g of oil or fat;

(iii) Allow only health claims that are understandable by consumers and relevant to public health;

(iv) Adopt, as a matter of urgency, a nutrient profile scheme that will ensure that health and nutrition claims can only be put on foods that are healthier;

(v) Consider harmonising, at an EU level, a nutrition labelling scheme that help consumers understand the nutrition values. ECDA recommends the traffic light scheme which has been tested in several countries and found to be helpful and useful to people.

3. The political declaration calls for promotion of the implementation of the WHO set of recommendations on the marketing of foods and non-alcoholic beverages to children, including foods which are in saturate fats, trans-fatty acids, free sugars or salt.

   • The EU can specifically assist this goal with the upcoming review of the Audio Visual Media Services Directive. Revision should ensure, as a proportionate measure, that audiovisual commercial communications for foods and drinks that do not respect specific nutrient profiles may not be broadcast between 06:00 am and 09:00 pm.

4. The political declaration makes a call for encouraging policies that support the production and manufacture of, and facilitate access to, foods that contribute to a healthy diet. In the EU, the review of the CAP offers a superb opportunity to assist this goal:

   • An integrated European Food and Agriculture Policy which works towards improving European diets in a sustainable way should be developed; it should provide for, inter alia, an increased supply of and access to affordable fresh fruit and vegetables.

5. The EU must cooperate with the WHO in the global target setting for prevention and control of NCDs reduction and in the set-up of a “comprehensive global monitoring framework” as laid out in the Political Declaration, and additional resources in partnership with the WHO has been mandated to lead this process by the end of 2012. Target setting requires high quality data against which progress may be measured.

   • The EU should co-operate with the WHO to establish, accurate and comparable data on the impact of chronic diseases, European and national policy makers do not have a clear picture of the scope of the problem and cannot therefore begin to tackle these diseases effectively. Funding should be allocated to support population-based surveys as well as the creation and maintenance of national and European disease registers.
6. The EU needs to work with WHO to promote the implementation of the WHO Global Strategy to Reduce the Harmful Use of Alcohol, and raise awareness of the problems caused by the harmful consumption of alcohol, particularly among young people. The “best buys” interventions of tax increases, restricted access to retailed alcohol and bans on alcohol advertising all need to be encouraged at Member State level.

7. The Member States and the European Commission need to be proactive in preparing for a progress review to be presented at the next UN Summit in 2014. Europe with the highest burden of NCDs needs to be the global leader, as with climate change.

### 3. Prevention of chronic diseases

Many of the modern-day health problems and the complex nature of chronic diseases require “a systems perspective” which includes an understanding of the overall interdependencies and all stakeholder groups as well as of the social nature of risk, its equity dimensions and of individual motivations.

The risk of a person developing diseases depends on interaction between the individual, his or her personal susceptibility and the wider environment. Many diseases, such as diabetes and asthma, have a complex pattern of inheritance. It is becoming increasingly clear that antenatal and early life events are important factors in the risk of developing diseases such as cardiovascular, type2 diabetes and Chronic Obstructive Pulmonary Disease (COPD) in adulthood.

The evidence on the role of behavioural, social and environmental determinants of chronic diseases is growing. For example, indoor and outdoor air pollution increases the risk of asthma and other respiratory diseases, and fine particulate matter in the air increases the risk of cardiovascular disease and lung cancer significantly affecting life expectancy. Declining cardiovascular mortality after smoking is banned in public places is an example of rapid benefits for health of successful actions addressing the environmental determinants of health.

### 3.1 Health in all policies

A recent study by the Institute of Medicine (IOM)\(^\text{11}\) suggests that Health in All Policies can be “seen as a manifestation of the precautionary principle: first do no harm to health through policies or laws enacted in other sectors of government.” It cites California’s Clean Air Act as an embodiment of this principle. We need not only see the precautionary principle evoked for environmental initiatives but also for health initiatives.

Turning the tide of diseases that have reached epidemic proportions requires fundamental changes in the social norms that regulate individual and collective behaviours. Such changes can only be triggered by wide ranging prevention strategies addressing multiple determinants of health. Tackling major risk factors for chronic diseases linked to behaviours that are highly prevalent in a population, requires multiple preventive interventions, which are both effective and broadly based. The 2010 WHO Global

Status Report on non-communicable diseases list best buys as an intervention that is not only highly cost-effective but also cheap, feasible and culturally acceptable to implement, see Annex 2.

Instead of seeing major diseases as a challenge to the health sector only, health in all policies highlights the fact that the risk factors of major diseases are modified by measures that are often managed by other government sectors as well as by other actors in society. Education, employment and the environment influence the distribution of risk factors among population groups, thereby resulting in health inequalities. Focusing on health in all policies may shift the emphasis from primarily individual lifestyles and single diseases to societal factors and actions that shape our everyday living environments. It does not, however, imply that any other public health approaches, for example health education or disease prevention are undermined or treated as less important.

The EU must put greater emphasis on ensuring the implementation of health in all policies. In accordance with the Lisbon Treaty, the EU must ensure that policies that have an influence on the health of EU citizens must promote health and healthier lifestyles. Any balanced and sensible government policies must aim to influence not only the fields of health and research, but also areas such as agriculture, transport and communication, environment, regional development and finance. Moreover, the European Union financial instruments including Structural Funds, European Agricultural Fund for Rural Development and EU-funded research should contribute to creating healthier European societies. These possibilities for health promotion must be explored further and implemented.

Examples of successful “Health in all policies” strategies:

• The EU public health project TobTaxy – bringing the health case to raise tobacco tax to the finance departments see: www.smokefreepartnership.eu

• European Public Health and Agriculture Consortium (EPHAC) – for a healthier more sustainable agriculture policy: http://www.healthyagriculture.eu/

Government policies should also aim to devolve more power at the local level and thereby empower individuals and communities to define the problems and develop community solutions. The Committee of the Regions / Eurocities and other relevant actors should be engaged in such actions.

3.2 Reducing health inequalities

People with higher socioeconomic position in society have a greater array of life chances and more opportunities to lead a flourishing life. They also have better health. The two are linked: the more favoured people are, socially and economically, the better their health. Research on the factors influencing health is revealing the importance of health inequalities in determining the outcomes and distribution of health burden. Health inequalities result from social inequalities. Action on health inequalities requires action across all the social determinants of health and will benefit society in many

12 http://ec.europa.eu/health/archive/ph_information/documents/health_in_all_policies.pdf
ways. It will have economic benefits in reducing losses from illness associated with health inequalities. These currently account for productivity losses, reduced tax revenue, higher welfare payments and increased treatment costs.\textsuperscript{15}

There are major health inequalities within and between countries in Europe. A top priority for the Europe 2020 strategy is to emphasise that a major effort will be needed to combat poverty and social exclusion, and reduce health inequalities to ensure that everybody can benefit from growth. Health ministries have a vital role to play both in ensuring the contribution of the health system and in advocating for health equity in the development plans, policies and actions of players in other sectors. However, the health system alone cannot reduce health inequalities.

Several Council Conclusions address health inequalities.\textsuperscript{16,17} Member States should now implement them. Simple steps include improved access to good quality air, water, food, sporting, recreational and cultural facilities and green space. They all contribute to reducing inequalities as well as helping to create sustainable communities. Improvements in housing conditions have been shown to have a number of positive impacts on health, including lower rates of mortality. Adequate heating systems improve asthma symptoms and reduce the number of days off school.\textsuperscript{18} The European Commission can aid this process by facilitating exchange of best practice.

The health of a baby is crucially affected by the health and well-being of their mother. Maternal health, including stress, diet, drug, alcohol and tobacco use during pregnancy, has significant influence on fetal and early brain development. Low birth weight in particular is associated with poorer long-term health and educational outcomes. Socially graded inequalities are present prenatally and increase in early childhood. The biological effects of birth weight on brain development interact with other influences associated with social position to influence cognitive development. Member States need to recognise the issue of maternal, newborn care and aftercare as a public health priority, particularly the health of preterm infants and infants with illnesses. Member States should develop educational programmes specifically targeting mothers in deprived situations to address health inequalities in maternal and newborn care within all EU Member States.\textsuperscript{19}

### 3.3 Facilitating healthy choices

There are many reasons why Member States should intervene to facilitate healthy choices for all citizens. Some of these reasons are:

(1) Information failures, which may contribute to the adoption of unhealthy behaviours and lifestyles through an inadequate knowledge or understanding of the long-term consequences of such behaviours;

\textsuperscript{15} Ibid
(2) External factors, resulting in the social costs and benefits of certain forms of consumption not being fully reflected in their private costs and benefits to individual consumers e.g. negative external factors in the case of addictive substances or unhealthy foods;

(3) Failures of rationality, which prevent individuals from making choices in their own best interest.

Information is critical to enable citizens to make rational and efficient choices. People have to be fully informed about the characteristics and quality of the products they consume, the benefits they will derive from consumption, but also the costs they will incur.

In the case of health-related consumption behaviours, information is often lacking on the nature and the magnitude of the associated health risks. Information may be lacking because it does not exist; because it is concealed or communicated in ways that are confusing people by parties that have a vested interest e.g. misleading or irrelevant health claims used by the food industry; or because it is complex and not easily accessible to the lay person e.g. information on the health risks involved in the consumption of different types of fats.

The importance of information in forming health-related beliefs is shown, for instance, in a study of the determinants of higher smoking rates in Europe compared to the USA\textsuperscript{20}. The authors reach the conclusion that beliefs were changed in the US when substantial information about the harms of smoking was made available to the public. The same information appears to have been communicated less effectively in Europe.

Much more discussion at EU and national level is needed about cost-effective ways to influence behaviour.

The European Commission has a unique legislative opportunity to bridge this gap in effective communication through a robust and strong revision of the Tobacco Products Directive. Introducing large mandatory pictorial warnings (front and back), and standardised packaging, would substantially increase the provision of information to European citizens on the disastrous consequences of tobacco use. We fully endorse the position of the European Parliament which has emphasised the need for an immediate, effective revision of the Tobacco Products Directive.\textsuperscript{21}

Equally, the European Commission has immediate opportunities for facilitating better food choices by merely allowing health claims that are easy to understand and relevant to public health and proposing a nutrient profiling system to allow claims only on healthier options.

Member States also have an obligation to address the information failure and provide more default healthy options. We provide many suggestions of such options throughout this paper.

3.4 Health promotion and communication

The Ottawa Charter for Health Promotion defines health promotion as the process of enabling people to increase control over, and to improve, their health. To reach a state of complete physical, mental and


social wellbeing, an individual or group must be able to identify and to realise aspirations, to satisfy needs, and to change or cope with the environment. Health is, therefore, seen as a resource for everyday life, not the objective of living. Health is a positive concept emphasising social and personal resources, as well as physical capacities. Therefore, health promotion is not just the responsibility of the health sector, but goes beyond healthy lifestyles to wellbeing.

Investing in the early years is key to preventing ill health later in life. An increased investment in public health promotion is important to increasing efficiency in the health service. A small shift in resource towards public health promotion activity would offer significant short, medium and long term savings to the service and to the taxpayer. Effective and evidence-based health promotion programmes should be implemented. The European Commission is in a unique position to promote such activities and to take on a long-term and visionary approach.

Public health campaigns when well-orchestrated have been proven to change the level of knowledge and awareness. They are particularly useful where awareness is the main goal, wide exposure is achieved, long-term follow up is possible, and when the behavioral goal is simple.

The “ex-smokers are unstoppable” campaign of the European Commission is innovative and should be commended. The “school fruit scheme” is also to be commended for its great potential to increase fruit and vegetable intake across Europe.

The importance of prevention and health promotion is recognised at EU-level in the Lisbon Treaty, in the EU Health Strategy and the European Innovation Partnership on Active and Healthy Ageing (EIP-AHA). Article 168 of the Treaty recognises their importance and encourages sharing of best practice and benchmarking between Member States.

To promote health and behavioural change in practice, the EU can use legislative tools such as advertising restrictions on unhealthy products, regulating salt and fat content etc.

3.5 Health in education

[The European Parliament] emphasises the need to step up the provision of education about healthy dietary and physical-activity habits in schools; notes that, globally, adequate resources should be made available for such educational work; European Parliament resolution on NCDs 15 September 2011

Education deserves special consideration because of the evidence of an important causal link with health and lifestyles. Individuals who have poor education are significantly more likely to adopt unhealthy lifestyles and to be in poor health.

DG Education and Culture could be involved in identifying measures to improve health education and health literacy in the EU, e.g. health promoting schools.

More educated individuals are able to obtain greater health outputs from given amounts of inputs, but they are also able to select more appropriate mixes of inputs, for instance by making healthier

consumption choices. Years of formal schooling completed have a strong effect on health outcomes, whether these are measured in terms of mortality, self-reported health status and physiological indicators of health.

### 3.6 Scope for early detection

*The European Parliament* emphasises the importance of the early identification of individuals who are at high risk of contracting or dying from these diseases or are suffering from pre-existing dispositions, chronic and severe illnesses and risk factors that aggravate NCDs - European Parliament resolution on NCDs, 15 September 2011

It cannot be over-emphasised that early detection and diagnosis, greater international collaboration, implementation of population-based quality assured screening programmes, evaluation of social inequalities and development of novel tools to detect chronic disease in at-risk populations are all measures that should be encouraged at Member State level.

The scope for efficacious and reliable early detection and screening varies depending on the specific disease in question. For disease specific recommendations, please see Annex 3 on early detection, and Annex 4 on screening and early interventions.

### 4. Health care

#### 4.1 Self-management – role of home care and telemedicine.

Home care services can have very positive effects for patients with chronic diseases especially paediatric and geriatric patients. Telemedicine can be considered as an extension of home care as it allows the patient to stay at home while remaining connected with health care professionals to ensure adequate monitoring of their condition. Telemedicine has shown some promising effects for monitoring COPD and asthma patients, or in cardiology, for heart failure patients and, of course, diabetes patients.

In the next decade there is a potential to increase and improve the use of home care and telemedicine to form a part of the disease management process. When introducing new technologies, appropriate training for health care workers is necessary. This has been recognised by the Council of the European Union under the Hungarian presidency and the conference declaration on European Cooperation on e-health adopted 15/03/2010.

Specialist consultation clinics should be considered in order to improve both the self-management of chronic conditions and the communication between the health professional and the empowered patient. These models will include increased patient involvement in directing treatment, greater use of patient-reported outcomes, and evaluations of efficacy of treatment by patient reports via internet, mobile phones etc.

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Specific efforts are needed at Member State level for the deployment of existing, cost effective e-health solutions and other innovative measures applicable to chronic diseases e.g. phone-based SOPHIA project that supports people living with diabetes in France and that has proven to have a very positive effect on health outcomes. There is also a strong need for more research and evidence, including large scale clinical trials, economic analyses, models for preventive and predictive care. DG Information Society needs to strengthen current efforts in e-health solution deployment and research.

4.2 Effective prevention in the health care system

The gains from prevention cannot be overestimated – a few simple steps to improve early diagnosis, detection and screening will go a long way to addressing our NCD crisis. The ECDA outlines steps that can be taken for the specific diseases in detail in Annex 3 and 4.

The EU must help Member States transform their health systems to make prevention and health promotion an integral part of health services. Even if health policy and provision of health care is a Member State responsibility, the EU should take an active role to aid this transformation. Member States share similar challenges, from demographic change to increasing health care costs, and common solutions are needed.

The economic crisis in particular has given European health policy a new push. Member States have agreed on a new EU-level economic governance, ‘European Semester’, which helps coordinate their macroeconomic, budgetary and structural reform policies. This coordination started with a Commission Communication on the Annual Growth Survey (AGS) and recommendations to the Member States. The macroeconomic report which accompanied the Communication, noted that “Health care systems need to be rigorously monitored and, where needed, reformed to ensure greater cost-efficiency and sustainability, especially in regard to demographic ageing”\(^24\). Such cost-efficiency can be brought about by implementing the recommendations outlined in this paper.

In addition, reimbursement rarely covers prevention and health promotion and this is an area where Member States should continue to exchange information.

Member States should also share best practices in empowering health personnel to deliver health. For example, educating and training staff in health promotion on topics such as the importance of smoking cessation, nutrition, and physical activity, would help them provide practical advice to patients during routine checks. Health personnel can also help identify high-risk groups for chronic diseases by using validated risk assessment tools.

4.3 The importance of innovative chronic care models in managing disease

In the broadest sense, integrated care is a concept bringing together inputs, delivery, management and organisation of services related to diagnosis, care, rehabilitation and health promotion.\(^25\) Moreover,


management of co-morbidities is a major challenge often overlooked by evidence-based diagnosis and treatment using disease-specific clinical guidelines.\textsuperscript{26}

The use of managed clinical networks, multidisciplinary teams and collaborative efforts across the lines of health care should be stimulated and funded by the Member States. These are crucial for the optimal management of complex conditions, and will need to be further developed across Europe.

The focus of chronic care models needs to be shifted toward addressing people in the early stages of chronic disorders. The ultimate aim should not be solely to manage disease, but to improve prognosis of chronic disorders.

4.3.1 The multidisciplinary team as a crucial component in patient care

The major innovation for further improving care will be the implementation of a coordinated and strategic cooperation between team members and among different units in the development of diagnostic and clinical management strategies. Further development of multidisciplinary care teams is crucial.

The care of many chronic diseases is increasingly complex. It not only relies on the talents of highly coordinated multidisciplinary teams but requires shared responsibilities across a continuum of longitudinal care involving numerous specialties and departments. A better integration between primary care physicians and other health care specialists is crucial in the care of chronic disease patients.

4.4 Affordability and accessibility of health care

There is increasing inequality in access to health care in Europe resulting from factors such as service design, accessibility, acceptability, affordability and financing mechanisms. As inequalities in health care have been associated with inequality in health within high-income countries it may well also contribute to inequalities in health within countries in central and Eastern Europe. Unless urgent action is taken now, these gaps between and within countries will increase.

Care for chronic diseases will necessitate new modes of approach such as integrated care, multidisciplinary care, clinical pathways, self-management, teleconsulting, telemonitoring and rehabilitation. For the latter four modalities, there is evidence of an effect on outcomes, but access to these services remains dismal. It is estimated that less than 5% of the eligible patients actually have access to rehabilitation.\textsuperscript{27} Member States must endeavour to improve accessibility for all.

4.5 Rehabilitation as a way to reduce hospitalisation

4.5.1 Pulmonary rehabilitation

Pulmonary rehabilitation has become recognised as central to the comprehensive management of patients disabled by chronic respiratory disease, including children who survive with respiratory

impairment. A European Respiratory Society/American Thoracic Society Statement on Pulmonary Rehabilitation and the changes induced by this process in individuals with chronic respiratory disease has been published in 2005. Furthermore, such programmes can reduce health care costs as a result of a reduction in the number of hospital admissions and the length of hospital stay. However, pulmonary rehabilitation as a practice in Europe is very inhomogeneous and even within single countries there are great variations in its use. Comprehensive rehabilitation in the primary care setting should be a priority, since it can manage large numbers of symptomatic “moderate” COPD patients. A strong recommendation for the future is to establish accessible pulmonary rehabilitation programmes, in order to deliver remote support to patients with chronic respiratory disease in an affordable way. There is a need to optimise the availability and quality of pulmonary rehabilitation in Europe, especially since rehabilitation is acknowledged as cost-effective for these patients i.e. those with moderate advanced COPD. Concerted efforts are needed to encourage health care delivery systems to provide this therapy and make it affordable.

### 4.5.2 Cardiac and stroke rehabilitation

Cardiac and stroke rehabilitation is recommended with the highest level of scientific evidence-class I by international scientific societies. Guidelines exist on the components of rehabilitation programmes and the health care team needed to carry them out effectively. Most countries offer basic rehabilitation services for eligible cardiac and stroke patients. However, longer-term maintenance is rarely offered to the patients.

Rehabilitation is effective as well as cost-effective. A systematic review of randomised controlled trials of 8,940 patients found that cardiac rehabilitation reduced the risk of dying from coronary heart disease by 26%, increased level of physical activity in 1 patient out of 5 and reduced the number of smokers by 5%. Stroke rehabilitation has proven to be effective in reducing death (4% in 6-month case fatality) and time spent in hospitals (length of stays on average 8 days shorter). Numerous analyses prove that rehabilitation programmes are cost-effective.

Considering the significant benefits that rehabilitation bestow on patients as well as the wider society, every eligible cardiac patient and patients who have suffered a stroke should have access to quality

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29 Piepoli et al, Secondary prevention through cardiac rehabilitation: from knowledge to implementation. A position paper from the Cardiac Rehabilitation Section of the European Association of Cardiovascular Prevention and Rehabilitation, European Journal of Cardiovascular Prevention and Rehabilitation 2010, 17:1–17
30 Guidelines for Management of Ischaemic Stroke and Transient Ischaemic Attack 2008, the European Stroke Organisation, 2009
32 The European Cardiac Rehabilitation Inventory Survey (ECRIS), Prof Birna Bjarnason-Wehrens, German Sport University Cologne, on behalf of the European Association of Cardiovascular Prevention and Rehabilitation, 2010
37 Cheuk-Man Yu et al, A short course of cardiac rehabilitation program is highly cost effective in improving long-term quality of life in patients with recent myocardial infarction or percutaneous coronary intervention, 2004, doi:10.1016/j.amr.2004.05.010
38 Saka et al, Cost-Effectiveness of Stroke Unit Care Followed by Early Supported Discharge, 2009, doi: 10.1161/STROKEAHA.108.518043
cardiac and stroke rehabilitation services. Services must be available where the patients live and suited to patients’ individual agendas.

4.6 Standards of care and the role of guidelines

[The European Parliament] calls for clear protocols and evidence-based guidelines to be established for the most common NCDs in order to ensure appropriate patient management and treatment across health care professions, including specialists, primary-care physicians and specialist nurses;

European Parliament resolution on NCDs, 15 September 2011

Guidelines are an important tool for clinical management that should be subjected to a comprehensive evidence-based approach. A proper guideline programme leads to optimal management of chronic disease, with improved outcomes and a reduction in health inequalities across Europe and globally. An important goal for the future will be the production of truly multidisciplinary guidelines, which is particularly important in patients (especially the elderly) with multiple chronic conditions. Guidelines need to be inclusive and produced in collaboration with the relevant stakeholders, such as patients and their organisations. In view of the growing complexity of guidelines it is crucial to, in future guidelines, include sections with summaries for lay people, discuss the role of new technology, and ensure guidelines answer clinicians’ questions.

Periodically reviewed and adapted guidelines are an essential part of the treatment strategy and progress of clinical, especially medical oncology, where systemic treatment possibilities constantly evolve and change with the ongoing development of drug research by pharmaceutical companies and cancer research trial groups. In almost all European countries national guidelines, increasingly evidence based for most cancers, have been developed and are constantly amenable for adaptation.

4.7 Palliative care

The development of palliative care as a specialty in its own right has led to great improvements in the care of patients with end-stage disease. A great inequality in access to services currently exists between patients dying with malignant and non-malignant respiratory disease. This is in part due to lack of resources, which constrains the wider availability of palliative care programmes in the health care system. A study by Gore et al. showed that COPD patients were generally better provided for in terms of aids and appliances, but very few had received counseling and none had received help from specialist palliative care services.

Across Europe and the developed world, most people with chronic respiratory disease die in hospital although it is known that few would make this choice. There is a need to change our practice to allow both curative care and palliative care to run side by side, and for patients with non-malignant disease to be referred to specialist palliative care services at a time when specialist palliative care teams can still be of help.

Besides palliative efforts in patients with chronic pulmonary diseases, the palliative care approach is probably most developed in adult oncology, where the majority of patients, once their disease has spread and becomes treatment-resistant, will need some form of palliative symptom control (pain, digestive troubles, depressive symptoms, neurological impairment, etc.). The development of somatic and spiritual palliative care in oncology across Europe, having started and greatly been promoted by pilot centres in the UK some decades ago, is probably one of the most rewarding and useful patient-oriented developments in modern clinical medicine, represented today by the European Society of Palliative Care and its very active research and educational programme.

Adequate measures should be taken and promoted across the health continuum to improve access to end-of-life care. Greater support for specialist nurses and specialist palliative care teams is required.

5. Research into chronic diseases

“[Invites the Commission to] integrate, where possible, chronic diseases as a priority in current and future European research and action programmes and take into account the outcome of the reflection process into the implementation of the EU 2020 initiative – Council conclusions, 7th December 2010.

Research makes a direct contribution to the prevention and treatment of chronic diseases and leads to dramatic increases in the quality of life for European citizens. Success in biomedical research requires a long-term investment as well as sustainable infrastructures. It is estimated that three-quarters of its return on investment of medical research come from its “spill over” effects and value creation to the broader economy.42 The cumulative economic benefit comes from the increased contributions of a healthy population as well as the wealth generated by the health care sector. Furthermore, the Innovation Union Strategy 2020 identified “health and ageing” as one of the major societal challenges of the 21st century.43

There is a crucial need to boost biomedical research with appropriate resourcing at the EU level for dedicated European funding for European-wide studies – many of the biomedical challenges will only be better understood through highly multidisciplinary and large-scale / multinational research. For this to happen, common European-wide strategic planning of biomedical research is essential. Tackling the enormous medical costs and loss of labour in the forthcoming decades requires action now. The return on investment in medical research is significant, and can be up to 39% according to the analysis presented for cardiovascular diseases in the UK.44

With regard to European biomedical research, it is crucial that the funding strategy and priorities are defined together with the biomedical community. Only if experts are actively involved in the development of the research strategy and the identification of research needs can it truly address the challenges faced by science and society.

Today at EU level however health and research are separate policy areas. To overcome the existing fragmentation and duplication of research in Europe in the health field, human health must be at the

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core. There is a major gap in translational research in Europe and better care delivery will only be possible if sustainable networks across Europe join together and share their resources to tackle the scientific challenges.

In addition more research is needed on e.g. the ‘health in all policies’ approach to health and health promotion. More case studies are needed about the factors that influence individual behaviour and social norms. The search for common solutions must build on strong research cooperation across Member States. The Council of the European Union should also introduce regular meetings between health and research ministries.

6. Data at European Level

[The European Parliament] emphasises the need to establish priorities for centralised data collection with a view to obtaining comparable data that will make better planning and recommendations possible across the EU - European Parliament resolution on NCDs, 15 September 2011

6.1 Collection of comparable data on chronic diseases in Europe

It is important for decision makers to understand the direct and indirect costs of preventable disease and benefits of health promotion to society. Comparable data at European level on incidence, prevalence, risk factors and outcomes, is urgently needed. There is a need for developing more unified, robust, cost-effective methods at EU-level. Registries at European level are clearly missing and the way information is collected differs widely. Many projects are ongoing, but all using different methodologies, which again renders the data incomparable.

There is an urgent need to promote the adoption of common health data standards collected across Europe by different stakeholders, whether health institutions, health care organisations, public health entities, health professionals, health care industry.

One major obstacle at European level is the interoperability of data. Although efforts are being made, in particular with the implementation of the cross-border health care directive, much remains to be done for all health data to be easily transferred between different operators.

The introduction, at EU level, of a unique patient identification number would overcome many of the current obstacles to data transfer. It must comply with personal data protection provisions.

Stakeholders involved in health data collection tend to focus either on clinical data, on registries or on epidemiology data. In some cases, the information collected is duplicated. Bridging the types of information would not only avoid duplication but result in a real life vision of the health status, in particular in terms of prevalence and incidence of the diseases.

6.2 Development and strengthening of existing EU agencies

The mandate of the European Centre for Disease Prevention and Control (ECDC) should be expanded to include the monitoring and surveillance of major NCDs.

Cooperation with WHO in view of the Action Plan for a strategy on NCDs\textsuperscript{46} and OECD and medical/scientific societies should be strengthened.\textsuperscript{47}

7. What gets measured gets done

[The European Parliament] calls on the Commission to continuously monitor and report on progress across the EU as regards the Member States’ implementation of their national NCD plans, particularly on the four most common NCDs, with a focus on progress made in terms of prevention, early detection, disease management and research – European Parliament resolution on NCDs, 15 September 2011\textsuperscript{48}

We need to measure, monitor and report on action taken in the Member States. To facilitate monitoring and reporting of progress a number of targets could be set. The ECDA proposed targets for chronic diseases are:

- 25% reduction in mortality by 2025
- Reducing tobacco use to less than 5% by 2040;
- Reducing salt intake to less than 5g per person per day by 2025;
- Reducing saturated fat intake to less than 10% energy per person per day by 2025;
- Eliminating the intake of industrial trans-fatty acids by 2025;
- Halving the intake of refined sugars in processed foods and beverages by 2025;
- Introduction of health warnings on all alcoholic beverages
- Reducing alcoholic liver disease and alcohol consumption and sales by 10% by 2025
- Providing affordable, safe, effective, quality-assured medicines (including for palliative care), vaccines and technologies to people with, and at high risk of, NCDs;
- By 2030, reduce the rate of increase in the prevalence of diabetes in adults from the predicted level of 9.5% to zero.

“What gets measured, gets done” – Margaret Chan, Director-General, World Health Organization, UN High-Level Meeting on NCDs, September 2011.

\textsuperscript{46} 2008-2013 Action plan for the global strategy for the prevention and control of non-communicable diseases
\textsuperscript{47} http://www.euro.who.int/__data/assets/pdf_file/0008/96632/E93736.pdf
List of contributors:

Anne Rouillard, European CanCer Organisation, Brussels, Belgium
Anne Felton, Foundation of European Nurses in Diabetes, Newcastle, United Kingdom
Brian Ward, European Respiratory Society, Brussels, Belgium
Denis L. Clement, European Society of Hypertension, Gent, Belgium
Deirdre Kyne Grzebalski, Foundation of European Nurses in Diabetes, Newcastle, United Kingdom
Gracemarie Bricalli, European Society of Medical Oncology, Lugano, Switzerland
Hans-Jörg Senn, European Society of Medical Oncology, St. Gallen, Switzerland
Jan-Willem Coebergh, European CanCer Organisation, Brussels, Belgium
Jean-Marie Vlassembrouck, European Society of Medical Oncology, Lugano, Switzerland
Karl Andersen, European Society of Cardiology, Reykjavik, Iceland
Marleen Kestens, European Heart Network, Brussels, Belgium
Margaret Walker, European Association for the Study of the Liver, Geneva, Switzerland
Nadia Kamel, European Respiratory Society, Brussels, Belgium
Norbert Lameire, European Kidney Health Alliance, Brussels, Belgium
Susanne Logstrup, European Heart Network, Brussels, Belgium
Sophie O’Kelly, European Society of Cardiology, Sophia Antipolis, France
Simon Capewell, European Society of Cardiology, Liverpool, United Kingdom
Sophie Peresson, International Diabetes Federation Europe, Brussels, Belgium