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ARTÍCULO ESPECIAL

Do family physicians need more payment for working of better? Financial incentives in primary care

4 02 László Róbert Kolozsvári,^a, Domingo Orozco-Beltran,^b, Imre Rurik,^{a,*}

^a Assistant professor. Department of Family and Occupational Medicine. University of Debrecen, (Hungary)

- ^b Associate professor. Cathedra of Family Medicine. University Miguel Hernandez. Alicante, (Spain)
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KEYWORDS

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Pay for performance;

Abstract Introduct

Introduction: Financial incentives are widely used in health services to improve the quality of care or to reach some specific targets. Pay for performance systems were also introduced in the primary health care systems of many European countries.
Objective: Our study aims to describe and compare recent existing primary care indicators and related financing in European countries.
Methods: Literature search was performed and questionnaires were sent to primary care experts of different countries within the European General Practice Research Network.
Results: Ten countries have published primary care quality indicators (QI) associated with financial incentives. The number of QI varies from 1 to 134 and can modify the finances of physicians with up to 25% of their total income.
Conclusions: The implementations of these schemes should be critically evaluated with continuous monitoring at national or regional level; comparison is required between targets and

their achievements, health gains and use of resources as well.

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¿Son necesarios los incentivos para trabajar mejor? Incentivos económicos en atención primaria

Resumen

- *Introducción:* En muchos países europeos se aplican en atención primaria diferentes programas de pago de incentivos en función de objetivos alcanzados.
- Objetivo: El objetivo de nuestro estudio es describir y comparar los indicadores más recientes utilizados en estos programas.
 - *Métodos*: Se realiza una revisión bibliográfica sistemática recogiendo las principales publicaciones sobre el tema. De forma complementaria se remite un cuestionario a diferentes expertos en atención primaria de diferentes países de la red *European General Practice Research Network*'.

* Corresponding author.

E-mail addresses: Kolozsvari.Laszlo@sph.unideb.hu (L.R. Kolozsvári), dorozcobeltran@gmail.com (D. Orozco-Beltran), Rurik.Imre@sph.unideb.hu (I. Rurik).

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PALABRAS CLAVE 24 EGPRN: 25 Unión Europea; Indicadores de 26 27 calidad de asistencia 28 médica; 29 Pago de incentivos; Pago por desempeño; 30 31 Q3 Atención primaria 32 33 34

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Resultados: Diez países tienen publicados sus indicadores de calidad (IDC) asociados a los incentives económicos. El número de indicadores varía entre 1 y 134. En 8 países los IDC y los incentivos están incluidos en el salario mensual del médico, suponiendo entre el 1 y el 25% del mismo.

Conclusiones: Los IDC se basan fundamentalmente en el registro de determinadas variables tanto por el médico como por el equipo directivo, aunque la validez de los mismos puede variar según la fuente de datos utilizada. Los programas se monitorizan de forma continua a nivel nacional o regional, de acuerdo con cada sistema de atención sanitaria y los recursos disponibles.

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45 Introduction

Although medicine is a natural science it is very similar to 46 the arts. Both are focusing on human beings and therefore 47 it is hard to be characterized with numbers only. Measure-48 49 ment usually needs numbers, but how could be the level of physicians' work measured? Why could it be considered as 50 good in scientific or practical point of view? How could it 51 be estimated by the patients or by other health workers? 52 Is it based on the knowledge, experiences, circumstances, 53 available resources or on other methods? 54

There has been an extreme, unpredictable growth in the biomedical sciences in the previous decades. Medical knowledge is continuously changing, developing and thereafter getting out of date early.

Humans are examined, diagnosed and treated by humans.
 How could the doctors be motivated for better work,
 performing more efficient and effective treatments and
 operations? What are the best factors for motivation? Pos sible answers could be: satisfied patients, health gain, cost
 reduction in health care, professional success and/or finan cial incentives.

The quality of care plays an important role in health services researches worldwide for decades. But it is difficult to define and to measure. Quality has different approaches from qualitative or quantitative techniques.

The quality of care can be improved by continuous train-70 ing program, using the Evidence Based Medicine (EBM) or 71 the creation and of clinical guidelines and their applica-72 tion in everyday practice. Assessing and evaluation plays a 73 pivotal role in the objective assessment and can improve 74 quality.¹ The most commonly used quantitative measure-75 ment tools are the quality indicators (QI).² The quality 76 indicators were initially used for assessment of the qual-77 ity of hospital care. However, a significant proportion of 78 the doctor-patient encounters take place in primary care, 79 so there was a need for the development, identification 80 and application of primary care indicators. The strategies 81 for the introduction of quality indicators are not effective 82 without understanding the factors required verify the history 83 of its development without transmission their use between 84 settings and countries.³ 85

"'Pay for performance'' was a new strategy regarding
 contracts between doctors and health systems (initially
 in Australia, UK and United States). Providers under this
 arrangement were rewarded for meeting pre-established

targets for delivery of healthcare services. Also known as ''P4P'' or ''value-based purchasing,'' this payment model rewards physicians, hospitals, medical groups, and other healthcare providers for meeting certain performance measures for quality and efficiency. The American Medical Association (AMA) has published principles for pay-for performance programs, with emphasis on voluntary participation, data accuracy, positive incentives and fostering the doctor-patient relationship, and detailed guidelines for designing and implementing these programs.⁴

The first United Kingdom (UK) experiment in payfor-performance (P4P) was the introduction of financial incentives to achieve targets for childhood immunisation and cervical cytology. These incentives were associated with a substantial rise in the achievements in these clinical areas, especially among previously low performing practices. The best known pay-for-performance system, the QOF (Quality and Outcomes Framework) was introduced as part of a new general Medical Service (GMS) contract for primary care in the UK in 2004 (Table 1).⁵

This type of motivation become more and more accepted and recognized by GPs, health authorities and professional bodies. In the past decades different pay for performance programs were introduced in several countries worldwide. Also in many European countries different financial incentive schemes were implemented. ⁶ The European Community funded PHAMEU (Primary Health Care Activity Monitor for Europe) project developed indicators for comparison of primary health care systems in different countries (structure-process-outcome indicators), these measurable international indicators were used to monitor the quality of primary care in 31 European countries.⁷EUprimecare project was funded by the European Commission's 7th Framework Programme used research methods to describe specific primary care organisational models in Europe and studied the possible compromise between guality and costs in each model. One of the main objectives of the study was development of specific clinical and non-clinical indicators.⁸

We aimed to find those European countries where some financial incentives are linked to quality indicators.

Method

There were two main sources of data: literature review and a questionnaire.

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Table 1 Domains from the Original Quality and Outcomes Framework (QOF) (2004-2006).⁵

Domain	Indicators /areas	Diseases / Conditions	Target points (pt) / % of total payment
Clinical	76 indicators in 11 areas	Coronary heart disease, left ventricular dysfunction, stroke and transient ischaemic attack, hypertension, diabetes mellitus, chronic obstructive pulmonary disease, epilepsy, hypothyroidism, cancer, mental health and asthma.	550 pt /52.4%
Public health	56 indicators in 5 areas	Record and information, patient communication, education and training, medicines managements, clinical and practice management.	184 pt / 17.5%
Patient experience	4 indicators in 2 areas	Patient survey and consultation length.	100 pt / 9.5%
Additional services	10 indicators in 4 areas	Cervical screening, child health surveillance, maternity services and contraceptive services.	36 pt / 3.4%
Depth of quality measure		A holistic care payment measures achievement across the clinical domain	100 pt / 9.5%

The literature search was performed with relevant
 keywords. We used the following search terms: quality, indi cator, quality indicator, quality of care, healthcare quality
 indicator

AND financial incentive, pay for performance, incentive,
 incentive reimbursements

AND primary care, primary health care, general practice,
 family practice, family medicine general practitioner, family
 physician AND Europe, European, European Union.

Two researchers (IR, LRK) performed independent search.
 Different databases (Medline- PubMed, Embase,
 Cochrane Library, Web of science, Google Scholar) were
 searched for publications in English from 2000 to December
 2012.

For the grey or not published literature we used the Google and Google Scholar search engines as well. Besides the above-mentioned sources we also searched the English version of governmental (where available), scientific sites to find other relevant information.

An informative *questionnaire* was developed (see Appendix) and sent to members of the European General Practice Research Network (http://www.egprn.org). Responses of at least 2 members of each country were expected.

157 **Results**

Fifty seven potentially relevant articles were found and abstracts retrieved. After eliminating the publications outside Europe and the duplicates (n = 29), 28 articles remained for further analysis. Most articles were published about the QOF in United Kingdom.^{5,9-13} Literature research resulted only a few articles (n = 11) from other European countries, where both the financial incentives and quality indicators were described or investigated. Relevant papers were found about the quality indicator system of Spain¹⁴, Lithuania.¹⁵ In some papers experimental or theoretical results were published. ¹⁶⁻¹⁸ Due to the limited length of this paper only the most relevant articles are in the reference list.

Questionnaires were sent via email to 44 primary care experts, 30 of them replied (68%). The summary of information we recollected and presented in the Table 2.

Ten countries were found and listed where primary care quality indicators are used and combined with financial incentives. The number of quality indicators varies from 1 to 134, the highest in the UK, the lowest in Italy. In 8 countries QI can influence the finances/salary of family physicians with a bonus of 1-25% of their total income. Besides the nationwide systems, there were local experiments and different regional systems mentioned in the Netherlands and in Italy, respectively.

Discussion

Over the last decades improving quality of care in general practice got an extensive focus.¹⁹ There were different health care system reforms, policy initiatives to improve the quality and strengthen primary care systems in many European countries.^{6–8,14,19} Many of quality improvement initiatives involve the introduction of indicators, and there attempts to enhance the quality in general practice through financial rewards based on fulfilment of indicators.^{12,19}

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Table 2	European countries with prin	mary caro Quality	undicators (OI)	colated to payment
	Luiopean counciles with pin	naly cale Quality	y indicators (QI)	etated to payment.

Country	Year of introduction	Number of QI	Main fields of QI	QI related increase of income [in %] or EUR (approximately)
UK	2004	134	Clinical services, organisational, patient's experience, additional services	25%
SPAIN	2006	66	Indicators for GPs, nurses, odontology, paediatrics, social workers	1-2%
PORTUGAL	2006	40	Access to care, CV risk, diabetes, maternity services, paediatric care	10%
ESTONIA	2006	60	Quality bonus system: prevention, follow up, comprehensive care	6%
HUNGARY	2009	15 (adult), 6 (paediatric)	Prevention, screening activity, Hypertension, lipids, coronary heart diseases, diabetes, referrals,	5%
LATVIA	2010	21	Prevention, chronic disease management(e.g. diabetes, hypertension), ambulance visits	5%
ITALY*	2010	1	Diabetes, *(different in 20 regions)	< 1%
NETHER-LANDS	2010	17-20	Diabetes, COPD	7% (local experiment)
LITHUANIA	2011	22	Bonus payment: population care coverage, prevention, hospitalization, chronic diseases	9%
SLOVENIA	2011	20	Prevention, COPD, asthma, diabetes, hypertension	10%

Although we got more and more experience and results about the existing quality indicator and P4P systems, there are still a lot of questions, further evaluation and research is required to compare them properly and find the appropriate answer to the questions.

Are quality indicators needed for a better primary care? 197 There are differences between the European countries, 198 influenced by the health politics and priorities of the gov-199 ernments, by national traditions, available resources, the 200 patients' expectations and the situation of primary care. 201 The role of primary care is also different in each coun-202 try. Primary care providers have more responsibilities and 203 tasks with more emphasized gatekeeper functions (in the 204 UK, Spain, Netherlands and Denmark) meanwhile in other 205 countries it is only symbolic (France, Hungary, Italy). Cor-206 rectly established and organized gatekeeper function can 207 reduce the numbers of referrals and decrease hospitaliza-208 tion rates among patients with chronic conditions resulted 209 in lower health care expenditures. 13, 19-21 210

What indicators? The selection and definition of indicators is not easy; they should be based on real data and should be independent from the health care providers, who might be manipulating the results in order to increase their income. Obviously, the choice of indicators could be influenced by several factors: the treatment protocol of the disease, the measurable biological parameters, prescription of medications and all the factors, which could be followed easily from the documentation and analysis of the patient's pathways within health care system. Depending on the source, validity of data may therefore vary substantially within electronic medical record system (EMR) since some items such as laboratory values are recorded automatically, whereas the validity of clinical information mainly depends on how physicians and their staff record the respective variables in the EMR.¹⁹⁻²¹

The quality of the incentivised fields might improve; the non-incentivised activities could be neglected.

The valid and reliable data are not dispensable for quality initiatives, health service research and health policy decisions; however such data, originally from primary care setting are lacking in most countries.^{16,17}

How many indicators? If there are a few indicators, they can represent only certain aspects of the primary care providers' work. The implementation of too many indicators can lead to increased bureaucracy and box ticking instead of spending time with patients. There was 1 indicator in

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Italy (the lowest) and 134 indicators in the UK (the highest)
among the European countries in 2012 ⁵. In the UK, where
there are the most indicators, there are opinions, that the
indicator system should be simplified to decrease the GPs
administrative workload. ^{12,21,22}

How much financial incentive should be given? The 243 financial incentives are determined and influenced by the 244 employment form of primary care physicians/general prac-245 titioners: there are self-employed, contracted etc. doctors. 246 with 2 main types of finances (capitation and fee for 247 service). P4P schemes have become increasingly popular 248 innovations in primary care and have generated questions 249 about their effect on improving quality of care, although in 250 some countries were not linked to Qls. There is no sufficient 251 evidence that contradicts or supports the quality improve-252 ment effect of financial incentives.¹⁹ The effectiveness of 253 P4P is inconclusive, though some reviews reported signifi-254 cant effects. A participatory P4P program might stimulate 255 quality improvement in clinical care and improve patient 256 experiences with GP's functioning and the organization of 257 care. P4P schemes need to take more account of broader 258 definitions of quality, as whilst they can have a positive 259 impact on incentivised clinical processes, it is not clear 260 that this translates into improving the experience and out-261 come of care.¹⁴ Too low incentives are not likely to be 262 effective, too high incentives can cause unintended conse-263 quences (e.g. data manipulation, ''gaming''/cheating). Our 264 results showed bonus between 1-25% of the total income 265 of the practice in Europe. There are different opinions, no 266 exact, universal percentage can be established in differ-267 ent countries, but an increase of at least 5-10% could be 268 appropriate. 11, 16, 17, 22-24 269

Who should decide what to measure? In some nations P4P/QI system implementation was a governmental initiative (e.g. Hungary), in others it was a result of negotiation between the employers, policy makers, health providers and medical associations (e.g. UK), or it could be more ''bottom-up'' procedure, involving the target users (e.g. The Netherlands).^{5,9,10,16}

The development of indicators and financial initiative system should be based on broad political and professional consensus. As there are lots of questions and different answers, further research is needed to establish the most effective quality improvement methods in each country.

282 Limitations

283 Obviously there are some limitations of this evaluation:

- -it is cross sectional study and presents only the actual
 financial practices of the European countries at the end
 of 2012,
- although governmental homepages predict many
 planned, QI-related financial changes in some countries,
 they have not yet been introduced,
- -we did not perform detailed comparison of QI-s only their
 implementations are presented.
- -there are differences in financing in these countries,
 depending on the economic situation and priorities of pri mary care. This comparison would require more focus on
 cost-effectiveness and other economic issues.

Conclusions

The quality indicators with financial incentives could be useful tools to improve the quality of primary care and services, if we keep the holistic approach of patients' care and use QI with other quality improvement methods.

The adequate number and fields of indicators and the extent of the related financial incentives could be essential to develop efficient QI and P4P systems. It is also important to take into account the characteristics of the national primary care systems.

Although majority of doctors in the primary care work as a professional but most of them believe that financial motivation is important. All of the achievements of these schemes should be evaluated at national or regional level, according to the health care system and available resources with continuous monitoring. This short and perhaps not comprehensive outlook for other European P4P systems can facilitate the thinking of GPs, evaluating and improving their daily work.

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LRK-study design, literature search, correspondence with questionnaires, text writing. DOB- literature search, text writing IR- study design, literature search, text writing, final text editing.

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Appendix A. Questionnaire. Primary care quality indicators (QI) in European countries.

The country where you are working: The QI system was introduced in (date): How many quality indicators are there in your country? Are QI integrated in the computer software you use? (yes/no) Is there a direct feedback / real time warning about the QI during the doctor-patient consultation or you get your monthly QI report after a certain time? (yes/no) Does QI modify your income? (yes/no) How many (%) of your income is based on QI? What are the main groups /subgroups of QI? Where can I find more information about Quality Indica- tors in your country? Please specify available (governmental, insurance) homepage.	329 330 331 332 333 334 335 336 337 338 337 338 339 340 341 342 343
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