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Abstracts

European General Practice Research Network (EGPRN)

Abstracts from the EGPRN meeting in Ljubljana, Slovenia, 10th – 13th May, 2012. Theme: 'Quality Improvement in the Care of Chronic Disease in Family Practice: the contribution of education and research'

KEYNOTE LECTURES

Development of GP as an academic discipline in Slovenia

Prof. Igor Švab, MD, PhD [AQ1] 21

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25 Slovenia has a long tradition of community-oriented primary care, based on health centres that have been established in the 26 27 first half of the previous century. Primary care has early been 28 recognised as the key component of health care. In line with this, speciality training of general practice was introduced 29 30 already in 1966. Nevertheless, the struggle for the academic recognition of family medicine was long and difficult. 31

First attempts of academic recognition of family medicine 32 date in the 1950's, where students were first sent to practices in 33 the country. However, this experiment was soon abolished due 34 to lack of interest by the medical school. New attempts have 35 been made in 1960's and especially in 1980's, where the first 36 organised programme for students was implemented. During 37 the same period, the first research projects in the area of family 38 medicine have emerged. Slovenian participants have also started 39 to take part in international research collaboration. The EGPRW 40 meeting in Dubrovnik was a starting point of a more widespread 41 research in general practice. By participating in the EGPRW 42 43 meetings and some projects (e.g. the EGPRW referral study, the EGPRW study on home visits), the Slovenian general practitio-44 ners have managed to achieve PhD titles and could then become 45 eligible for teaching positions at the university. This was a pre-46 requisite for the establishment of the academic departments of 47 family medicine in Ljubljana in 1994 and later in Maribor. 48

Currently, family medicine is recognised as a strong aca-49 demic discipline with its own research group that is among the 50 strongest in medicine and the strongest in public health. Slove-51 nian family medicine doctors are regularly taking part in inter-52 national studies, financed through different programmes. The 53 family medicine department in Ljubljana is leading in the area 54 of teaching expertise at the Ljubljana medical school. Regular 55 contribution to high quality international research meetings, 56 like the one of EGPRN, is the key element in the strategy of 57 keeping the academic standards of the discipline up to date. 58

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Quality Improvement in the Care of Chronic Disease in Family Practice: the contribution of education and research

Prof. Janko Kersnik, MD, PhD

82 President of EURACT (European Academy of Teachers in General Practice), Head of the research Department and lecturer at Family 83 84 Medicine Department at Medical School University Ljubljana, Ljubljana, Slovenia E-mail: janko.kersnik@ozg-kranj.si

Terms like 'chronic care model' or 'chronic disease manage-87 ment programme' were coined to demonstrate novelty and 88 attract care providers to accept pay for performance as a pan-89 acea for bursting health services costs, which were due to a 90 growing number of chronic patients, better medical technolo-91 gies available and higher public expectations. Information tech-92 nologies and abundance of leisure time made populations 93 more educated and demanding in terms of safety and overall 94 quality of health care services provided. Payers and health care 95 politicians used these facts in commissioning health care ser-96 vices. They claim money should follow the patient and reim-97 bursement should be based on the quality of service. In 98 addition, guality improvement is sometimes used in health 99 political decisions for changes in structures or financing. 100

Suddenly, family physicians are faced with contracts 101 demanding more and more data on particularities of patient 102 management - in preventive activities as well care for chronic 103 patients. Building structures for reporting and data collection 104 became the main focus in office management. Besides com-105 puters full of better processes and outcomes, is there still any 106 place for a holistic approach? Where in all of these actions is 107 room for our patients, ethics and professionalism? Has family 108 practice become a tool of a totalitarian medicalization of whole 109 societies? If we regard chronic disease management as a com-110 pletely new phenomenon, then we should worry about the 111 consequences of actively chasing of our patients to get their 112 measurements below target values, and forgetting about a comprehensive approach of each individual patient.

It is human to reinvent the wheel. Looking back into the history of family medicine, we can identify such approach already in the works of public medicine specialist Andria Stampar from Zagreb. He was employed as the expert of the Health Organization before the Second World War, and he was president of the World Health Organization Assembly from the twenties of the previous century.

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Integrated, comprehensive patient management should encompass health promotion, disease prevention, early detection and treatment as well continuous management and palliation. Principles of comprehensive management are: knowing our patients (lists), active seeking of patients at risk or ill, developing disease registers, teamwork, community orientation, group patient education and targeted activities. Therefore, reporting on numbers of patients on the lists and in registers and reporting on quality indicators is only a tiny 10 part of overall quality improvement and reimbursement. 11 Patients and their priorities should stay in focus. Medical edu-12 cation on all levels and research projects should address 13 these issues and dilemmas to overcome the threat of splitting 14 our patients again into organs, diseases and target values. 15 Furthermore, this should give voices to family physicians to 16 practice comprehensive patient management. 17

Research in quality improvement

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26 Research in quality improvement in healthcare is now a recog-27 nized field in the applied health sciences. It aims to identify inter-28 ventions and factors, which are associated with relevant changes 29 in process and outcomes of healthcare. Recent examples of stud-30 ies in the field will be used to illustrate the importance of under-31 standing the mechanisms underlying quality improvement, how 32 to improve patient safety in primary care, the potential of 33 decision support for patients and clinicians, and sustainable 34 improvement. 35

It is widely believed that improvement interventions have 36 to be tailored to local needs, but concepts and methods for 37 tailoring vary widely. Furthermore, evidence to make an 38 informed choice is hardly available. In a large European study 39 'Tailored implementation for chronic diseases' (TICD), we 40 examine how to improve chronic illness care. Some theoretical 41 ideas on understanding the mechanisms underlying improve-42 ment of care are presented as well. 43

A 'magic bullet' for improving primary care does not exist, but we should improve our understanding of the mechanisms underlying it. Current focus of research mostly is on organization and financing of healthcare, but educational and decision support of clinicians and patients remain important topics as well.

PRIZE WINNING POSTER

Study FPDM (Depression and Multimorbidity in Family Medicine): Systematic literature review: what validated tools are used to screen or diagnose depression in general practice?

Patrice Nabbe, Jean-Yves Le Reste, A. Le Prielec, E. Robert, Slawomir Czachowski, Christa Doer, Charilaos Lygidakis,

Stella Argyriadou, Benoit Chiron M.I. San Martin Fernandez, 62 Heidrun Lingnier, M. A. Munoz Perez, 63 Ana Claveria Harm Van Marwijk, C. Liétard, Paul Van Royen 64 Univ. de Bretagne Occidentale, Fac. de Médecine et des Sciences 65 de la Santé, Brest, France E-mail: nabbepro@gmail.com 66 67

68 Background: Tools for depression screening and diagnosis in primary care are available for several years, but their validity 69 70 in practice is unclear.

71 Research Question: The objective of this study was to identify the tools validated against reference tools. 72

73 **Method:** A systematic literature review with ten national teams 74 of the EGPRN was carried out. The search query contained the following Keywords: 'depression definition' or 'depression cri-75 teria' or 'depression diagnosis' or 'depressive disorders' or 76 'depressive syndrome' and 'tools' or 'scales' or 'questionnaires' 77 and 'primary care' or 'family practice' or 'general practice.' 78 Databases: PubMed, Embase, Cochrane. The abstracts have 79 been included by two teams of two researchers each (French 80 and EGPRN). Only tools validated against reference tools were 81 selected. The alphanumeric (number of items, language, 2) and 82 numeric data (PPV, NPV, Se, Sp, ...) of each tool were 83 84 extracted.

Results: Overall 615 abstract extracts; 59 abstracts and 39 85 86 articles were included A total of 32 screening and nine diag-87 nostic tools were found, and 23 different tools used as refer-88 ences. Features, alphanumeric data and numeric data validity 89 of each tool were collected.

90 Conclusion: This systematic literature review has found 91 and identified the tools used in the screening and diagnosis of 92 depression in primary care, validated against reference tools. Research teams and general practitioners can choose accord-93 94 ing to their needs from the list of validated tools.

THEME PRESENTATIONS

99 Development and validation of an instrument to 100 assess the burden of treatment among patients 101 with multiple chronic conditions 102 103 Baruch Dan, Thi Tran Viet, Montori Victor,

104 Falissard Bruno, Eton David 105 Dept. Medical, Université de médecine Paris Diderot, Sorbonne 106 Paris Cité, France E-mail: dan.baruch@free.fr 107 108 Background: Treatment burden represents the constraints 109 associated with everything patients must do to take care of 110 their health 111 Research Question: How to develop and validate an instru-112 ment to assess the treatment burden of chronic diseases for 113 patients with multiple chronic conditions. 114 Method: Items were derived from a literature review, physi-115

cian opinions and qualitative semi-structured interviews with 116 patients. The wording of items was evaluated during a pre-117 test. Principal component analysis was used to analyze 118 the dimensional structure of the questionnaire. Construct 119 validity was assessed by examining the relationships between 120 the instrument's global score, the Treatment Satisfaction 121 Questionnaire for Medication (TSQM) scores, and variables 122

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1 describing treatment workload. Agreement between evaluations by patients, informal caregivers and physicians was 2 3 appraised. Reliability was determined by a test-retest 4 method. Results: The final questionnaire consisted of 13 items deter-5 6 mined after semi-structured interviews with 22 patients. Dur-7 ing the validation study, 502 inpatients and outpatients presenting with various chronic conditions completed the 8 9 instrument. The guestionnaire showed a unidimensional 10 structure with high internal consistency (Cronbach's 11 alpha = 0.89). The global score was negatively correlated 12 with TSQM global score (rs = -0.41) and convenience score 13 (rs = -0.53) and positively correlated with treatment work-14 load items (rs = 0.16-0.40). Agreement between patients and 15 physicians (n = 396) was weak (Intraclass correlation coeffi-16 cient 0.38 [95% confidence interval 0.29-0.47]. Reliability of 17 the retest (n = 211 patients) was 0.76 [0.67-0.83]. 18 Conclusion: This study provided the first valid and reliable 19 instrument to assess the treatment burden of chronic diseases 20 for patients and could help physicians finding treatment regi-21 mens that fit with patients' contexts. 22 23 24 25 The relationship between somatization 26 27 and (persistent) disability 28 29 Guusje van der Leeuw, Berend Terluin, 30 Harm W. J. van Marwijk, Marloes J. Gerrits, 31 H. E. van der Horst, B. W. J. H. Penninx 32 Department of General Practice and EMGO, VUMC, Amsterdam, 33 The Netherlands E-mail: guusjevdl@gmail.com 34 35 Background: In patients with depressive and anxiety disorders 36 social disability is a sizable and often persistent problem. Som-37 atization (characterized by medically unexplained physical 38 symptoms) is often associated with depressive and anxiety dis-39 orders. Previous studies showed a linear relationship between 40 somatization and disability in primary care patients. Currently, 41 it is unknown to what extent somatization is responsible for 42 the occurrence and persistence of disability in patients with 43 anxiety and depressive disorders. 44 Research Question: Is somatization associated with (persis-45 tent) disability in patients with anxiety and depressive disor-46 ders? 47 Method: Data were derived from the Netherlands Study of 48 Depression and Anxiety (NESDA) (multi centre cohort study, 49 n = 2981). We used data from 1260 depressive and/or anxiety 50 disorder patients in primary and secondary care. Somatization 51 was measured with the somatization scale of the Four-52 Dimensional Symptom Questionnaire. The WHO Disability 53 Assessment Schedule 2.0 (WHO-DAS II) was applied to measure 54 disability. Linear and logistic regression were used to investigate 55 the association between somatization and (persistent) disability 56 (after one year of follow-up). 57 Results: Cross-sectionally, somatization was associated with 58 disability after adjustment for confounders and effect modifi-59 ers (B: .297, CI: .169-.425). Longitudinally, there is a relation-60

ship between somatization and persistent disability (OR: 1.04,
 Cl: 1.00–1.07). Somatization accounted cross-sectionally for

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0.8% (22,1% in the unadjusted model) of the variance in WHO-62 DAS disability and longitudinally for 1.4% (3,8% in the unad-63 justed model) of the variance in persistent disability. Variables 64 that confounded the relationship between somatization and 65 disability cross-sectionally were depression severity, anxiety 66 severity, distress and anxiety disorder (DSM IV). Longitudinally, 67 education level, number of chronic diseases, depression sever-68 ity, anxiety severity and distress were confounders for the rela-69 tionship between somatization and persistent disability. 70 Conclusion: Somatization has a small, but significant, impact 71 on (persistent) disability in patients with anxiety and depres-72 sive disorders in primary and secondary care. 73

Longstanding disease, disability or infirmity and depression in primary care

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Background: Current evidence suggests that depression is much
more prevalent among those with chronic medical conditions
compared to the general population. Depression will rank second
to cardiovascular disease as a global cause of disability by 2020.
With ageing of the population, physicians are called upon to treat
a higher percentage of patients with chronic medical illness.85
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89Research Question: To assess the prevalence and incidence of
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depression and likelihood for new-onset depression in patients with self reported longstanding illness, disability or infirmity in the sample of primary care attendees.

Method: Consecutive family medicine practice attendees aged9618 to 75 years were recruited and followed up after six months.97Presence of longstanding disease, disability or infirmity was
recorded.98

Results: Prevalence of major depression was 8.9% in the group 100 of patients reporting longstanding disease compared to 3.1% 101 in the group without longstanding disease. Incidence of major 102 depression after 6 months was 2.7% in the group with long-103 standing disease and 0.9% in the group without longstanding 104 disease. For patients with a longstanding disease at the base-105 line, it was almost four times more likely to have major depres-106 sion after six months than for patients who didn't report any 107 longstanding disease at the baseline. 108

Barriers and facilitating factors for children with obesity participating in a lifestyle intervention programme - interviews with parents and children

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Background: Obesity is increasing among children. Many life style interventions have been developed. However, the effec tiveness of these programmes is limited. Information about
 barriers and facilitating factors perceived by children with obe sity and their parents when participating in a lifestyle interven tion can improve these interventions.

6 7 Research Question: What are the barriers and facilitating factors 8 for obese children and their parents, who participated in a life-9 style intervention program, to change their lifestyle behaviour? Method: The data for this qualitative study was obtained by semi-10 11 structured interviews. We recruited obese children, who had 12 participated in one of three different lifestyle programmes. The 13 social network theory, the social learning theory and the self 14 regulation theory were used to set the topics for the interviews. 15 namely: experiences in participation of the programme, role of 16 the general practitioner, expectations of the programme and 17 ideas for a new programme, and consequences of overweight. 18 All interviews were recorded and transcribed verbatim. To 19 increase inter-observer reliability, three independent experienced 20 qualitative researchers discussed the interviews in a consensus 21 meeting to reach agreement on the results of the interviews.

22 Results: We interviewed 18 children (ten girls, average age 23 10.3 years) and 24 parents. Support given by the caregiver 24 during the programme was very important. Both children and 25 parents indicated that the GP needs to be honest, give atten-26 tion to the health care question, understand the severity of 27 the problem, and treat the child with respect. For children, 28 the social environment was perceived as more facilitating 29 than for parents. Exchanging experiences with peers gives 30 parents a feeling of solidarity. Stigma is experienced in every 31 contact

32 Conclusion: Our results show that parents and children need
 33 support from the caregiver, the social environment and their
 34 peers to learn and maintain successful behaviour change. This
 35 knowledge can help the GP to support obese children and
 36 enhance lifestyle interventions.

Predictors of the quality of cardiovascular prevention for high risk patients

44 Davorina Petek, Janko Kersnik

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Background: Preventive activities for patients at high risk for
 cardiovascular disease (CVD) are an important task of family
 doctors. The process of preventive care includes several organ isational and medical interventions.

Research Question: How can we evaluate the process of CVD
 prevention and what are the predictors for CVD prevention
 quality in patients at high risk.

Method: The study represents the Slovenian part of international Epa-Cardio study. A stratified sample of 36 family practices by size and location was taken from the national register.
Each practice invited a random sample of 30 patients from the
register of patients at high risk for CVD. The data were gathered
from the patients' records, a questionnaire for patients,

practice questionnaire and interview with the family physician.
 We defined the process of care as one dependent variable by

principle component analysis and tested the relationship of the 62 process with family physicians,' patients,' and practice charac- 63 teristics by multilevel regression analysis. 64 Results: Overall 871 patients (response rate 80.6%) partici-65 pated. The process of care was represented by five compound 66 variables and presented by the first component of PCA. Patients' 67 characteristics that predicted the higher-quality process of CVD 68 prevention were younger age (t = -4.94, 95% [CI] -0.01869 to -0.008) and lower socioeconomic status (t = -2.18, 95% Cl 70 - 0.195 to - 0.010). Practice characteristics were smaller prac-71 tice size (t = 2.83, 95% CI 0.063 to 1.166), a good information 72 system for CVD prevention (t = 3.15, 95%CI 0.030 to 0.282), and 73 the organization of education on CVD prevention (t = 3.19, 95% 74 CI 0.043 to 0.380). 75 Conclusion: We present a broad prediction model, which com-76 prehensively takes into account numerous factors related to 77 the practice, physicians and patients. The process of CVD pre-78 vention is dependent on the practice organization and not spe-79

cifically dependent on patients' characteristics. Nevertheless, 80 some patients' groups need special attention, such as those of 81 lower socioeconomic class. 82 83

Multimorbidity clusters in the elderly primary care population (\geq 75 years)

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97 Background: The epidemiology of multi-morbidity has been usually studied based on lists of selected health problems and 98 99 in selected populations, making the interpretation of the 100 observed patterns of clustering difficult. 101 Research Question: To determine the epidemiology of multi-102 morbidity and its patterns in elderly people in Catalonia (Spain). 103 Method: Cross-sectional study, based on all ICD-10 diagnosis 104 (3-digits codes) from electronic medical records for a represen-105 tative sample of people aged \geq 75 years. Multimorbidity was 106 defined as co-occurrence of \geq 2 health problems. Cluster anal-107 ysis was performed to determine the associations using the 108 Jaccard Coefficient (JC) as the measure of distance.

109 Results: We analysed 173 088 electronic medical records. The 110 mean ages were 81.9 years (standard deviation, SD 5.3) in women 111 and 80.8 years (SD 4.7) in men. The most prevalent health prob-112 lems in women and men were hypertension (72.3 vs 63.7), met-113 abolic disorders (51.0% vs. 44.6%) and osteoarthritis, (44.7% vs. 114 44.6%), respectively. About 95.3% of women and 95.5% of men 115 suffered from multi-morbidity, with a median number of health 116 problems of eight in women and seven in men.

Cluster analysis revealed that, in women, hypertension 117 was closely associated with the presence of metabolic disor-118 ders (JC = 0.49), followed by osteoarthritis (JC = 0.42) and 119 other forms of heart disease (JC = 0.30). In men, hypertension 120 was associated with the presence of metabolic disorders 121 (JC = 0.43), followed by prostatic disorders (JC = 0.36) and 122 other forms of heart disease (JC = 0.33).

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Conclusion: Multimorbidity has a high prevalence in primary care amongst older people. The most prevalent multimorbidity pattern in women was a cardiovascular-metabolic-osteoarthritis cluster and in men, the cardiovascular-metabolic-prostatic. The knowledge of the most frequent clusters could be helpful to better manage health problems in elderly people.

Medical home visits: incidence, population characteristics and consultation content in a Portuguese family health unit

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Background: Home visit (HV) is cost-effective in delivering care
to dependent patients. Its rate is used as a performance indicator in Portuguese Family Health Units (FHU). However, little is
known about the content of this activity in the work of the
Portuguese GP.

Portuguese GP. **Research Question:** In an average Portuguese FHU, what is /are:
-the annual incidence rate of medical HV? -The socio-demography
and morbidity of the home-cared patients? -The main reasons for
encounter (RFE), diagnosis and interventions in HV?

28 Method: Cross-sectional design; census of patients visited by

their GP, at FF-mais FHU, Jan 1st-Nov 30th 2010 (N = 209).

30 Sociodemographic data were obtained from medical records; active health problems, RFE, diagnosis and interventions were

active health problems, RFE, diagnosis and interventions were
 coded using ICPC-2 and collected in a Microsoft Excel[®] data-

32 coded using ICPC-2 and collected in a Micros
 33 base. Descriptive statistics were applied.

Results: Annual HV incidence rate: 42.8%; 491 HV occurred; 34 2.35/patient. Patients: mean age 79.7 years; 59.1% women; 35 17% living alone; 71.9% Graffard's classes IV-V; 74.1% depen-36 dent persons, at an average of 2.23 km to FHU; most common 37 caregivers spouses and children (70%). An average of 7.02 38 health problems/patient was observed. There were 1.64 RFE, 39 4.05 diagnosis and 2.89 interventions/HV. About 60% of RFE 40 used ICPC-2 codes suggesting chronic illness routine; 27% of 41 RFE belonged to component 1. The most common interven-42 tions were prescription and therapeutic counseling/listening, 43 which occurred each 1.08 and 0.93 times/HV; test request and 44 administrative procedures were the least common, occurring 45 0.45 and 0.06 times/HV. A referral was done in 7% of HV. 46 Conclusion: The annual incidence of medical HV was lower 47 than reported in the literature but higher than the goal pro-48

posed by administration, making relevant the discussion of its
 appropriateness. A proximity, low-tech medical home consulta tion programme, oriented to comprehensive care, seems
 appropriate to this population.

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Addressing Healthcare Inequities in Israel by Eliminating Prescription Drug Copayments

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Abstracts 5

Background: Drug copayments are increasing in all health care 62 systems and may act as a barrier to adequate treatment for 63 low-income residents with chronic diseases. 64 Research Question: To determine if subsidizing prescription 65 drug co-payments for low socioeconomic, chronically ill patients 66 would increase their use of prescription medications and 67 thereby improve their health. 68 Methods: A total of 355 patients with a low socioeconomic 69 status (SES), as defined by The Israel National Insurance Insti-70 tute, who were not regularly purchasing prescribed medica-71 tions, were enrolled. Patients (average age 64.6 years) with 72 hypertension, hypercholesterolemia, or diabetes were included, 73 as these chronic illnesses have easily measurable surrogate 74 endpoints. Patients were followed for 24 months. Serum 75 HbA1c, blood pressure, and LDL-cholesterol levels were mea-76 sured. Patients paid their co-payments with a 'credit card' cov-77 ered by a donation. 78 **Results:** Two years after initiation of the subsidized copayment 79 program, blood pressure measures $(136.2 \pm 16.7/78.0 \pm 8.7)$ 80 mmHg vs. 128.2 ± 13.3/74.8 ± 8.1 mmHg, p<0.001) and LDL 81 cholesterol levels (116.2 \pm 38.0 mg/dl vs. 105.3 \pm 38.0 mg/dl, 82 p < 0.001) were significantly below those at the onset of the pro-83 gram. Average HbA1c showed no improvement in the first year 84 and a significant increase was noted by the second year of the 85 86 program. Conclusion: When co-payments for prescription medications 87 were eliminated, low-income patients demonstrated increased 88 compliance with obtaining medications, improved response to 89 treatment and improved blood pressure and LDL-cholesterol 90 levels; glycemic control did not improve. 91 92 93 94 95 Resident doctors' professional satisfaction and its 96 97 effects on their lives 98 99 Makbule Neslişah Tan, Nilgun Ozcakar, Mehtap Kartal 100 Dept. of Family Medicine, Dokuz Eylül University, Izmir, Turkey 101 E-mail: drnesli293@hotmail.com 102 103 Background: Residency preferences affect both education and 104 living conditions of residents and are also affected by them. 105 The aim of this study was to evaluate the satisfaction of resi-106 dents, about their residency preferences, living conditions and 107 medical residency training; working in a university hospital. 108 Research Question: What is the residents' job satisfaction and 109 relationship with living, working conditions and quality of edu-110 cation during residency? 111 Method: A cross-sectional study was designed based on a 112 questionnaire, consisting of 51 questions including socio-113 demographic characteristics, working and health conditions 114 and Minnesota Job Satisfaction Questionnaire. The questions 115 about health conditions and residency training consisted of 116 items including yes or no replies. It was administered face-to-117 face to 252 assistants (44.5% response rate) who agreed to 118 participate. The analysis of quantitative data was carried out 119 using SPSS 15.0. 120 Results: Of the participants, 92.1% were enthusiastic when 121 choosing their specialization, but it was the ideal career for 122 only 51.2%. Although the income affected the choice of

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1 25.8%, most of them (72.2%) considered that the income is not enough. Of the assistants, 73.4% were satisfied with their 2 3 residency training. The assistants who declared problems 4 about healthy nutrition and recreational opportunities, also had social living and relations negatively affected (p < 0.001). 5 6 The mean job satisfaction score was determined as 3.39 ± 0.59 . 7 Most of the residents' (71.8%) scores were in the medium 8 level. Job satisfaction scores were higher in residents who 9 were enthusiastic about their specialization, had less duty, 10 had priority for training within their departments, thought 11 that they are not used for drudgery, found the physical condi-12 tions and salary as adequate, were satisfied with the relation-13 ship with colleagues, assessed their training as sufficient 14 (p < 0.05)

15 Conclusion: Resident doctors in general were satisfied. It is 16 important to be aware of the factors affecting residents' job 17 satisfaction so that a better training and working environment 18 can be achieved.

Clinical Decision Rules for excluding 23 pulmonary embolism 24

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31 Background: Clinical probability assessment combined with 32 D-dimer testing is used to exclude pulmonary embolism (PE). In 33 AMUSE-2, a study presented at the EGPRN Krakow 2011 (not 34 published yet), we showed that the GP can safely exclude PE with 35 a Wells-clinical decision rule and a point-of-care D-dimer test. 36 Research Question: What are the test-characteristics of gestalt 37 (physicians' unstructured estimate) and different clinical deci-38 sion rules for evaluating adults with suspected pulmonary embo-

39 lism? What is the failure-rate (missed cases) when used in 40 combination with D-dimer testing? 41

Method: We searched Medline and Embase for articles in Eng-42 lish, French, German, Italian, Spanish and Dutch, published 43 between 1966 and June 2011. We selected prospective studies 44 conducted in consecutive patients suspected of PE. Studies pro-45 vided PE-probability estimate using gestalt or decision rule as 46 compared to an appropriate reference standard. We extracted 47 data on study characteristics, test performance and prevalence, 48 constructed 2*2-tables and assessed methodological quality.

49 Results: A total of 52 studies, including 55268 patients, were 50 selected. Meta-analysis was performed on studies investigating 51 gestalt (n = 15; sensitivity 0.85/specificity 0.51), Wells-rule at 52 cut-off \leq 2 (n = 19; 0.84/0.58), Wells-rule at cut-off \leq 4 (n = 11; 53 0.60/0.80), Geneva-rule (n = 5; 0.84/0.50) and revised Geneva-54 rule (n = 4; 0.91/0.37). Sensitivity and specificity of both deci-55 sion rule and D-dimer test increased, respectively decreased 56 with increasing prevalence of PE. Combining a decision rule or 57 gestalt with a D-dimer test seemed safe for all strategies except 58 for combining the less sensitive Wells4 with the less sensitive 59 qualitative D-dimer.

60 Conclusion: Combined with sensitive D-dimer tests all rules 61 and gestalt are safe to exclude PE. We advocate physicians to use a standardized rule because of the lower specificity of 62 gestalt. The availability of point-of care D-dimer tests makes 63 this strategy feasible in primary care. 64

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TRANSFoRm: An ontology-driven approach to clinical evidence modelling implementing clinical prediction rules

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77 Background: This study describes the development of a com-78 putable ontology of clinical evidence that utilises clinical pre-79 diction rules to support the provision of diagnostic decision 80 support tools utilised in family practice. This work is part of our 81 contribution to the EU funded TRANSFoRm project, Grant 82 Number FP7 247787. 83

Research Question: 1. Can we define a computable represen-84 tation of diagnostic clinical evidence in the form of an ontol-85 ogy? 2. Can we represent and reason with clinical prediction 86 rules as one mechanism to clinically interpret evidence for pro-87 viding decision support through defined questions supporting 88 diagnosis? 89

Method: Systematic reviews were performed to document the 90 clinical evidence supporting the diagnosis of 20 selected med-91 ical conditions related to three broad clinical areas. These cap-92 tured the key diagnostic cues indicative of the selected 93 differential diagnoses as found in sources of evidence-based 94 medicine. An ontology of evidence was constructed based on 95 data models for allowing construction of a flexible representa-96 tion using clinical prediction rules. The completeness of the 97 ontology structure was validated through population with data 98 supporting the chosen clinical scenarios and construction of 99 defined diagnostic clinical questions expressed as formal ontol-100 ogy queries. 101

Results: The ontology of evidence was expressive enough to 102 capture the clinical concepts required to represent diagnostic 103 clinical evidence for TRANSFoRm and also to capture the specif-104 ics related to the chosen diagnostic scenarios. The results 105 generated from the ontology queries were as expected based 106 on the populated ontology data describing the TRANSFoRm 107 diagnostic scenarios. 108

Conclusion: A clinical evidence ontology can provide a core 109 data model to answer diagnostic questions for developing deci-110 sion support tools to assist primary care practitioners. The key 111 challenges of this approach are the on-going development of 112 maintenance tools and generation and quantification of under-113 lying data used to populate the ontology. 114

TRANSFoRm Provenance model for clinical trial data collection

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3 4 Background: Provenance represents the knowledge about the 5 origin of an entity such as a document or a data set, including 6 its original source, actors involved and tasks carried out to 7 bring it to its final form. A provenance-aware system tracks system processes across different modules, stages and author-8 9 ities; so that the full set of influences on the resulting data can 10 be understood. Such metadata tracking has significant impact 11 on administration, efficiency and efficacy. In healthcare, it 12 enables audits about the procedures carried out by the medical 13 personnel, determining best practices and adherence to guide-14 lines, and gives practitioners a uniform and complete vision of 15 each task. This work is part of our contribution to the EU-16 funded TRANSFoRm project (FP7 247787).

17 Research Question: How can domain specific knowledge be 18 integrated into the provenance information, and does the 19 resulting system provide a useful software environment for 20

querying and analyzing the conduct of clinical trials?

21 Method: Following the two clinical information models, PCROM 22

and the ICH Good Clinical Practice guideline, we have designed 23 two new ontologies for describing the key concepts and their

24 relationships associated to clinical trial conduct. The ontologies

25 were constructed using Protégé, and formal syntactical and 26

semantic constraints defined using Ontology Web Language. 27

Results: The two new ontologies were combined with the 28 Open Provenance Model, to produce OPM-RCT, the OPM

- 29 extension for clinical trials. To validate design correctness, a set 30 of TRANSFoRm use cases was represented in OPM-RCT, with
- 31 typical queries from the use cases mapped to SPARQL query 32 language.

33 Conclusion: The approach taken offers the richness and ease 34 of mapping of the domain specific ontologies, together with 35 the benefits of storage and query tools that come with the 36 OPM. A similar strategy could be employed in other medical 37 and non-medical domains with rich semantic background 38 knowledge. 39

From qualitative data to educational training of CRC screening

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Background: Colorectal cancer (CRC) is the third most common 52 cancer worldwide. In France, mass screening has been estab-53 lished with FOBT since 2008. The participation rate remains too 54 low. Previous studies were conducted to explore doctors' and 55 patients' perspectives. We also explored GPs performance by 56 recording and analyzing GPs' consultations in which patients 57 come and ask for FOBT. 58

- 59 Research Question: How to develop educational material and training for GPs, to enhance their communication with patients on 60
- CRC screening, based on results from two qualitative studies? 61

Method: Qualitative data were collected from five GP focus 62 groups, 24 patient interviews and 35 recorded consultations 63 from nine GPs. Content analysis was carried out using Nvivo 64 9. The communication between doctors and patients was 65 explored with RIAS coding. Triangulation of all qualitative 66 data was undertaken and discussed with communication 67 teachers of the University of Antwerp, to develop the educa-68 tional material and training 69 Results: The qualitative data indicated that improvement was 70 needed in patient-centered communication such as asking 71 patients what they already know about CRC and the test, from 72 starting the consultation, exploring patients' health beliefs for 73 CRC screening, giving appropriately timed explanation, provid-74 ing the correct amount and type of information, checking their 75 understanding, and avoiding to deliver only technical informa-76 tion. Based on these triangulated data two different scenarios 77 were developed to improve communication with patients: one 78 for a compliant patient, another for a resistant patient. Two 79 videos were made with a doctor and simulated patient. Educa-80 tional training was elaborated with two sequences, including 81 role playing, the presentation of the video followed by a discus-82 sion. A memo was given to the participants with the main items 83 concerning communication skills. 84

Conclusion: Qualitative data helped us to produce useful and 85 relevant educational training for GPs about CRC screening. 86

Why patients don't want to participate in a patient educational program?

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Background: In primary care settings, 80% of medical consulta-98 tions are dedicated to chronic diseases and control of risk fac-99 tors. The WHO assessed that in 2020, chronic diseases will be 100 the first cause of mortality and disability worldwide. Patient's 101 education is a major issue to prevent complications, and to 102 improve quality of life. Nevertheless, only few patients take 103 advantage of this intervention. 104

Research Question: To understand reasons patients don't want 105 to participate in a patient educational programme. 106

Method: We performed a qualitative study with semi struc-107 tured phone interviews among DT2 patients who beneficiated 108 of an educational diagnosis, but declined the invitation to par-109 ticipate in the educational programme during the year 2008. 110 After re-transcription of the verbatim, thematic analysis was 111 performed. 112

Results: Twenty-eight patients were identified, 13 accepted 113 the interview. The main issue was the influence of the stage of 114 acceptance of the disease to participate to the programme. 115 The patients were not aware of the functioning of the network, 116 and reported their GP was neither. Some of patients have 117 changed their health behaviour from their first interview at the 118 network. Communication among the health professionals, the 119 GPs and the patients was badly assessed. 120

Conclusion: Conclusions of this work allow us to draw assump-121 tions to improve patient's care: patients who are not already 122

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accepting their illness can't accept an educational intervention. The GP have to help them moving from the denial stage to the acceptance stage of the disease. It also highlights the need of a better communication between health professionals to improve patient's education.

FREESTANDING PRESENTATIONS

Prognosis for children with otitis media symptoms

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17 Background: Otitis media is one of the most common child-18 hood infections and at the age of three up to 90% of all 19 children have suffered from at least one episode of acute 20 otitis media (AOM) or secretory otitis media (SOM). A lot of 21 symptoms are related to ear diseases, but it is unknown 22 whether symptoms being present at the onset of the dis-23 eases have any prognostic value for the course of the 24 diseases. 25

Research Question: The objective is to analyse whether symptoms being present in children with AOM and SOM have any prognostic value for the condition of the children four weeks later.

30 Method: A cohort study was conducted. General practitioners

(GPs) consecutively included 730 children with a new ear symp-

tom. At the first consultation the GPs registered symptoms,

results of otoscopy and tympanometry, together with diagno sis and treatment. The children were followed up by their GP

four weeks later with the same registration.

Results: Among children with sleeping problems on inclusion 36 and one or more symptoms after four weeks an OR of 1.59 (95 37 % CI: 1.12–2.25, p < 0.05) was significant. Earache on inclusion 38 was significantly associated with one or more symptoms after 39 four weeks (OR = 0.66 (0.45–0.97, p < 0.05)). Children aged 0–2 40 years were significantly associated with a higher crude OR for 41 one or more symptoms after four weeks (OR = 1.50 (1.10-2.07, 42 p < 0.05)). However, after adjusting for symptoms at the inclu-43 sion (fever, sleeping problems, ear ache and ear rubbing) this 44 association was not significant. None of the other symptoms 45 were significantly associated with ear symptoms after four 46 weeks. 47

Conclusion: Our results demonstrate that sleep problems on
 inclusion enhance the risk of still suffering from one or more
 ear symptoms after four weeks, while earache on inclusion
 reduces the risk of suffering from one or more ear symptoms
 after four weeks.

COPARIME: design and first results

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Background: Melanoma prognosis is correlated to Breslow 62 index at the moment of the diagnosis. Healthcare system con- 63 straints lead researchers to promote screening focused on 64 patients 'at high risk' to develop melanoma. The Self Assess- 65 ment Melanoma risk Score is a validated tool developed to 66 identify high risk patients. The aim of the COPARIME program 67 is to evaluate the impact of a screening procedure on a popu-68 lation recruited in primary care. The aim of the first step of the 69 70 program was to build up the cohort. Method: The cohort size was calculated to demonstrate an effi-71 ciency ratio greater than 5 with a power of 80% and an alpha risk 72 lower than 5%. General practitioners were recruited among the 73 referent GP network of two departments in the West of France. 74 In the waiting room, a poster of the study asked to patients to 75 complete the SAMScore. Patients assessed at high risk by the 76 score signed a consent form and were enrolled in the cohort. 77 They were examined by their GP. If a suspect lesion was detected. 78 they were referred to a dermatologist. All clinical data were 79 directly captured on eCRF. All patients of the cohort were asked 80 to go back to their GP for a full skin examination every year. 81 Results: Between April 2011 and October 2011, 85 GPs partici-82 pated. More than 10 173 Patients were screened of whom 4 188 83 patients were identified at high risk and signed the consent. 84 Patients who had a personal history of melanoma (n = 86) were 85 excluded from the cohort. A total of 1 814 patients were referred 86 87 to a dermatologist. Conclusion: This study showed that screening patients for 88

Conclusion: This study showed that screening patients for88melanoma is feasible but required a minimum of organisation89and increased the time of the consultation. It will be cost effi-90cient to propose a specific quotation as an activity of medical91prevention.9293

Affective temperamental roots of smoking habit in a hypertensive population in primary care

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Background: Smoking and hypertension together multiply104the risk for cardiovascular events. Depressive disorders while105increasing the risk, also contribute to poorer prognosis of car-106diovascular disorders. Affective temperaments are the stable,107genetically determined roots of affective disorders and108strongly determine the personal reactions to environmental109110

111 **Research Question:** To determine the possible role of affective 112 temperaments in smoking habit in a hypertensive population. 113 Method: Consecutive hypertensive patients (taking antihyper-114 tensive medication) were enrolled in 27 primary care practices 115 in Hungary. Smoking status was defined as current smokers, 116 never smoked and quit smoking. The Temperament Evaluation 117 of Memphis, Pisa, Paris and San Diego Autoquestionnaire 118 (TEMPS-A) was used. Medical data was provided by GPs, smok-119 ing status and autoquestionnaires were completed by the 120 patients. The Kruskal-Wallis test was used for comparisons. 121 Results: The data of 124 hypertensive patients (91 males age 122 (SD): 60-15 years and 123 females: 63-13 years) was

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Background: ETIC is a cluster randomised trial comparing a

therapeutic education program with usual care for chronic

heart failure outpatients. The primary outcome is quality of life

measured by two questionnaires: Minnesota (MLHF) and

Research Question: Are there differences between MLHF and

SF-36 scores depending on the characteristics of the patients

Method: Cross sectional analysis of SF-36 and MLHF scores at

baseline to assess the correlation between these two question-

naires and study their respective capabilities to characterize

patients regarding diabetes, cholesterol, hypertension, smoking,

alcohol consumption, overweight, sex and the physician's type

Results: The correlation coefficient between the overall SF-36

and the MLHF was -0.69 (p < 0.05) indicating a significant cor-

relation. There was no difference in guality of life between the

two groups (control n = 118, intervention n = 111) assessed by

mental health SF-36 (p = 0.69), physical health SF-36 (p = 0.44),

overall SF-36 (p = 0.54), and MLHF (p = 0.09). According to the

MLHF, non-diabetics patients had a better quality of life than

diabetic patients (1.30 ± 1.00 vs. 1.88 ± 1.17 ; p < 0.05). Men

had a better quality of life than women with the physical SF-36

(58.72 \pm 21.99 vs. 43.37 \pm 21.07, p < 0.05) and overall SF-36

(60.95 \pm 20, 25 vs. 49.63 \pm 19.59, p < 0.05). Other features did

not differ significantly, regardless of which, questionnaire was

Conclusion: Considering some of the patients' characteristics,

such as gender or diabetes, either MHLF or SF-36 proved to

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G. Dubray, Philippe Vorilhon

SF-36.

of practice.

used.

tation of this trial.

included in ETIC trial?

significant (p = 0.184). Ex-smokers showed the highest hyper-5 6 thymic ranks (p = 0.198) and the lowest depressive ranks 7 (p = 0.101).

Conclusion: The significantly higher irritable temperament 8 scores of current and ex-smokers indicates that this tempera-9 mental trait may contribute to CHD through harmful behav-10 11 ioural pathways. The highest hyperthymic and lowest depressive 12 temperament scores of ex-smokers may be indicators of effec-13 tiveness in lifestyle changing, which is essential in cardiovascu-14 lar disease prevention. These data require further research to 15 confirm our findings. 16

Empathy of first year medical students in Slovenia 20

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26 Background: Empathy is the most frequently mentioned 27 humanistic dimension of patient care and is considered to be 28 an important quality in doctors. The importance of fostering 29 the development of empathy in undergraduate students is con-30 tinuously emphasised in international recommendations for 31 medical education.

32 Research Question: To examine an international tool for mea-33 suring empathy (Jefferson Scale of Empathy-Students version

34 (JSE-S version) among a sample of first year medical students 35 in Slovenia. 36

Method: First year students of the medical faculty in Ljubliana 37 participated in the research. JSE - S version, a self-administered

- 38 20 item questionnaire, was used for collecting data. Each item 39 is answered on a seven-point Likert-type scale. An instrument 40 was translated into Slovene from English using back translation 41
- by three independent translators. Descriptive statistics at item 42 level and on the scale level, factor analysis, reliability analysis 43
- and temporal stability (two weeks after the first administra-44 tion) of the JSE-S version were undertaken.
- 45 Results: A total of 234 out of 298 (response rate 78.5%) of 46 students completed JSE-S version. The mean score for the 47 items ranged from a low of 3.27 (SD 1.72) for the item: 48 Health care providers should not allow themselves to be 49 influenced by strong personal bonds between patients and 50 their family members, to 6.50 (SD 0.82) for the item: Patients 51 feel better when their health care providers understand their 52 feelings. The mean score for the scale (possible range from 53 20 to 140) was 107.6 (from 71 to 131, SD 12.6). Using the 54 factor analysis we identified six factors describing 57.2% of 55 total variability. The Cronbach Alpha as a measure of internal 56 consistency was 0.79. The instrument has good temporal 57 stability (ICC 0.703).
- 58 Conclusion: Findings support the construct validity and reli-
- 59 ability of JSE-S version for measuring empathy in medical stu-
- 60 dents in Slovenia. Future research is needed to evaluate the
- 61 factors, which contribute to empathy.

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Which positive factors determine the attractiveness of **General Practice and retention in Clinical Practice?**

A qualitative research with individual interviews

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120 Background: GPs leave clinical practice and the GP workforce 121 is in decline all over the world. Until now research was focused on reasons for leaving the practice. Strategies to 122

assess quality of life differently. Variables such as diabetes or gender could be confounding factors in assessing the impact of the intervention of ETIC trial on quality of life. As a consequence, multivariate analysis has been used to ensure optimal interpre-

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improve capacity, based on these studies, have not been successful to date. We need to look at positive elements that
 could influence GP's retention in clinical practice and consider
 the implications for future strategies. This is the focus of our
 study, which is part of the EGPRN collaborative project on
 'WoManPower.'

Research Question: Which positive factors can be found to
improve the attractiveness of general practice and the retention of GPs in the profession?

Method: Within the French part of the study, our team under-10 11 took qualitative research with a phenomenological approach 12 from the GP's perspective. We conducted individual interviews 13 with GPs on what gives them satisfaction in their profession. 14 They were selected by a purposeful strategy and recruited until 15 saturation of data was reached. Two researchers indepen-16 dently analysed the transcripts using open and axial coding and 17 discussed them in a second step with the whole team. 18 Results: Eleven interviews with GPs were conducted. Satura-19 tion was obtained after nine interviews. GPs satisfaction was

explained by personal factors, identity or behavioural, and professional themes: job content, liberal status, teaching, patientdoctor relationship, intellectual stimulation, recognition of
work and involvement in the professional community. These
elements of satisfaction in the medical profession are superimposed with the European definition of general practice by
Wonca.

Conclusion: This study identified possible themes of a positive
 job model for general practice. It stressed the importance of
 focusing the academic training of young doctors to acquire
 skills in family medicine defined by WONCA because they are
 sources of satisfaction. This model needs to be further reviewed
 in other French and international studies.

Quality of life of migraine sufferers: feelings, experiences and care expectations

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Background: Migraine is a frequent pathology and it is likely to
cause disability and to impair quality of life. Despite a high level
of morbidity, it is poorly managed in primary care, and general
practitioners have difficulties appreciating the real impact of
migraine on patients.

Research Question: What are the perceptions of migraine suf ferers regarding their quality of life and the management of
 their illness by their caregivers?

53 Method: Qualitative research was conducted: two focus group
 54 interviews were held with fifteen patients suffering from
 55 migraine.

56 **Results:** Migraine sufferers report the disabling nature and 57 the severity of their migraines, both during and outside 58 migraine attacks. Their quality of life is highly affected by 59 major changes in their family and in their social and profes-50 sional lives. Migraine sufferers organize their life according to 59 their migraine attacks and between these. They affirm their need for recognition and listening. According to migraine 62 patients, listening and solutions to their headaches and associated disorders are partially satisfactory, but they expect 64 caregivers to have more information about the causes and 65 possible triggers of migraine. They also await new more effective drugs. 67

Conclusion: One of the expectations of migraine patients is the68recognition of their illness. The careful and empathic listening69and regular assessment of quality of life of migraine sufferers70appears to be essential to support diagnostic and therapeutic71management of these patients.7273

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The FPDM (Family Practice Depression and Multimorbidity) Study: A pragmatic definition of Multimorbidity from scientific medical literature

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Background: Multimorbidity is a new concept deeply in touch88with the holistic modelling core competency of GPs. It could89help to detect frail patients in primary care before decompensating. However, as often for new concepts, its definition and90subsequent operationalization are still unclear.92

Research Question: What is the definition of multimorbidity93according to inclusion criteria of patients in medical94literature?95

96 Method: Systematic qualitative review with nine national 97 teams from the European General Practitioner Research Network (EGPRN). The only keyword was multimorbidity. Pubmed, 98 99 Embase and Cochrane databases were searched. For inclusion 100 articles had to be in IMRAD format, languages had to be English 101 or one of the team's native language and multimorbidity had 102 to be described. All articles were quadruple screened. Two 103 independent teams of two researchers did the first data extrac-104 tion. A thematic analysis was carried out by six researchers. 105 Finally, four researchers undertook selective coding with the 106 intention of forming a definition.

107 Results: Overall 416 abstracts, 68 articles were selected and 54 108 included. A total of 1 631 criteria of definitions were found with 132 different definitions. The research group described 11 axial 109 codes. The selective coding achieved the following definition: 110 Multimorbidity is defined as any combination of chronic dis-111 ease with at least another disease (acute or chronic) or a bio 112113 psychosocial factor (associated or not) or risk factor. Bio psy-114 chosocial factor, risk factor, social network, burden of diseases, 115 health care consumption and patient's coping strategies may 116 function as modifiers. Multimorbidity may modify the health 117 outcomes and lead to an increased disability or a decreased 118 quality of life or frailty.

Conclusion: This systematic review achieved a pragmatic defi-119nition of multimorbidity in medical research. However, it's120operationalization against the clinical expertise of European121GPs must be assessed.122

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What does the anxiety scale of the Four-Dimensional Symptom Questionnaire (4DSQ) actually measure and which cut-off points should be used?

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Inge Duijsens, Harm van Marwijk

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11 Background: The 4DSQ is a practical self-rating questionnaire 12 measuring distress, depression, anxiety and somatization. The 13 anxiety scale of the 4DSQ is intended to measure what is spe-14 cific to anxiety disorders. However, the DSM-IV defines many 15 different types of anxiety disorders.

16 Research Question: 1) To what extent does the anxiety scale 17 detect the various types of anxiety disorders? 2) Which cut-off 18 points are best to use?

19 Method: We analyzed six cross-sectional datasets in which 20 standardized psychiatric diagnoses were made while symp-21 toms were rated using the 4DSQ. We examined panic disorder, 22 agoraphobia, social phobia, generalized anxiety disorder and 23 specific phobia. We explored the anxiety score distribution per 24 disorder. Logistic regression was used to determine the 25 explained variance (Nagelkerke R2) of the individual disorders 26 and to calculate disorder-specific likelihood ratios as a function 27 of the 4DSQ anxiety score. ROC-analysis was used to determine 28 optimal cut-off points. 29

Results: Most patients with panic disorder, agoraphobia or 30 social phobia scored high on the 4DSQ anxiety scale, as 31 expected. However, substantial proportions of patients with 32 generalized anxiety disorder or specific phobia scored low on 33 the anxiety scale. The anxiety score explained 20-25% of the 34 variance of panic disorder, agoraphobia and social phobia, but 35 significantly less (7–12%) of the variance of generalized anxiety 36 disorder and specific phobia. ROC-analysis suggested that ≥ 4 37 was the optimal cut-off point to rule out and \geq 10 the cut-off 38 point to rule in anxiety disorders. 39

Conclusion: The 4DSQ anxiety scale detects panic disorder, 40 agoraphobia and social phobia adequately, but generalized 41 anxiety disorder and specific phobia less so. Nevertheless, the 42 proposed cut-off points performed reasonably well. 43

Medication adherence among diabetic patients - One 47 disease with different adherence to different 48 49 medications

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55 Background: The effectiveness of different interventions to 56 improve medication adherence have been studied, but actual 57

medication adherence rate haven't been studied.

58 Research Question: To learn about the actual medication 59 adherence rates among diabetic patients.

60 Method: Diabetic patients over 40 years of age that were

61 treated by the same family physician during 2008-2010 were eligible. Medications adherence rates were studied during 62 2009, among diabetic patients who took the medication at 63 least once every year during 2008–2010, to avoid treatment 64 changes, or end of treatment. 65 Medications that were checked: metformin, sulphanilurea, 66 acarbose, statins, ACE inhibitors, ARB's. Purchase of nine 67 monthly prescriptions was considered as good adherence. 68 Results: Overall 25,214 diabetic patients were included. Average 69 age was 66.2 (range 40-101); 50.1% were men; 34.8% were of 70 low socioeconomic status. In terms of adherence rates for each 71 medication, the following was found: -13 495 patients were 72 treated with metformin, good adherence - rate was 58.6%. -73 5 621 patients were treated with sulphanilurea, good adherence 74 - rate was 55.3%. - 382 patients were treated with acarbose. 75 good adherence – rate was 67.8%. – 16 236 patients were treated 76 with statins, good adherence – rate was 66.6%. -14647 patients 77 were treated with ACE inhibitors, good adherence - rate was 78 69.0%. -3152 patients were treated with ARB's, good adherence 79 - rate was 78.8%. No differences in adherence rates were noted 80 between men and women for the different medications. Socio-81 economic status was not related to medication adherence rate. 82 Advanced age was related to better medication adherence. 83 Patients with good adherence rate have lower HbA1c and LDL 84 cholesterol then patients with low medication adherence. 85 Conclusion: There are differences in adherence rate for differ-86 ent diabetic medications. It is important to study the cause for 87 these differences in order to improve medication adherence. 88

Vitamin B-12 deficiency – A clinical observational study in Primary Care

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100 Background: Cobalamin deficiency is a chronic, controversial 101 and under-diagnosed problem reaching a 15% prevalence in 102 the elderly. The lack of a diagnostic gold standard recommends 103 initiate an empirical treatment based on clinical grounds with 104 oral tablets as first-line.

105 Research Question: The objective is to describe the prevalence 106 and the main clinical characteristics associated with B-12 defi-107 ciency to gain experience and awareness of its management. 108 Method: The design was an observational follow-up study, in 109 an urban primary care setting. Patients were screened either 110 (1) opportunistically for the vitamin B-12 or (2) actively when 111 presenting symptoms or signs associated with this deficiency, 112 mainly tiredness, memory complaints, peripheral neuropa-113 thies, gastroenterological conditions and hypothyroidism. The 114 diagnostic inclusion criteria was: (1) vitamin B-12 bellow 200 115 pmol/L or (2) vitamin B-12 bellow 300 pmol/L plus symptoms 116 or signs associated with this deficiency. The recruitment period 117 was between 08/2008-04/2010 and patients were treated 118 orally or intramuscularly. The clinical follow-up assessment was 119 based on the improvement of symptoms and documented rise 120 of the vitamin level. 121

Results: Overall 57 patients were recruited (61% females). The 122 stratified prevalence increased from 1.6-4.5 - 6.25 in adults

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(periods 14-45-65-74) and 23% in elderly (>m74). Tiredness was the cardinal symptom affecting 68% of patients, memory disturbances 14%, somnolence 17%, peripheral nerve symptoms 23%, psychiatric manifestations 17%, hypothyroidism 17%, cardiovascular events 19%, low D3-vitamin 7%, on Metformin 7% and on proton pump inhibitors 7%. At the one month follow-up assessment: three patients were lost, eight were complex or of doubtful condition and 45 (83%) showed an improvement in their symptoms while one didn't. Treatment was maintained orally in 66% (34) and intramuscularly in 10 11 33% (17).

12 Conclusion: Cobalamin deficiency is highly prevalent in the 13 community, tiredness is the cardinal feature, frequently associ-14 ated with other conditions and in most, treatable orally.

What are the general practitioner's difficulties in the consultation of migrants in the French healthcare system: a qualitative study

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27 Background: Migrants experience many difficulties when 28 accessing the French healthcare system. The general practitioner (GP) is often the first and sometimes the sole healthcare 29 30 professional consulting this population. Interactions of this 31 type, poorly described in the literature, can be difficult for 32 many reasons.

33 Research Question: What sort of migrants consult the GPs in 34 France? What difficulties do GPs encounter during these con-35 sultations?

36 Method: A qualitative study was conducted, by semi-37 structured interviews, until saturation point, with 15 GPs in 38 4 'migrant districts' in a mid-sized city. The survey involved 39 random phone requests. Interviews were recorded and car-40 ried out a one-on-one basis in accordance with our topic list. 41 This was defined after in-depth interviews and was com-42 posed of three opening questions about the definition of 43 migrant, the specificities and difficulties encountered during 44 the consultation. We conducted a content analysis with con-45 stant comparison after entire transcription and manual 46 coding.

47 Results: A migrant is defined by GPs as a foreign person, 48 recently arrived in France, with different culture and language. 49 The migrant has also a cause of migration. He is detected as 50 non-integrated, without social security and medical record. He 51 has a social security cover (AME or CMU). Specificities of his 52 care related to the GP (major coordinator role), the migrant 53 (singular clinical signs) and the social and medical aspect of the 54 consultation. Three main difficulties are noticed: language bar-55 rier, social care for the patient and differing cultural aspects of 56 the migrant. Difficulties are overcome by most GPs with an 57 ethical and enlightened behaviour, whereas some display racial 58 prejudice. 59

Conclusion: Our results show that a translator and social work-60 ers are two essential partners to enable a GP to provide good 61 care to migrants. If we don't consider the specificities of care

to migrants, GP consultations may contribute to migrant social	62
inequality.	63
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What link door family unaction multiplication and	67
What link does family practice quality improvement	68
have with information quality in e-Health?	69
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Osijek, Hungary E-mail: ljiljana.majnaric@hi.t-com.hr	73
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Background: Development of methods to measure practice	75
outcomes will greatly depend on the capability of computa-	76
tional applications to manage and explore medical data.	77
Research Question: To emphasize the need for family physician-	78
computer programmer interaction (Human-Computer Interac-	79
tion) in developing proper user interfaces in regard to medical	80
data storing, compressing and extracting evidence.	81
Method: The author's personal reflections upon and summing	82
up the materials presented at the conference on Information	83
quality in e-Health and the Workgroup Human-Computer Inter-	84
action, held in Graz, Austria, November 2011, and organised	85
by the Austrian Computer Society, where the author actively	86
participated.	87
Results: The challenge of unifying computational applications to	88
be capable of health care systems networking and medical data	89
sharing across the EU, has been discussed. This idea is close to	90
the claim for medical data record standardisation. The final aim	91
is medical care quality improvement and cost-effectiveness opti-	92
misation. In this regard, it has been stressed that most current	93
health information technology is not designed to support the	94
cognitive aspects of medical doctors' decision-making. The need	95
for medical expert-computer designer interaction and for even	96
larger interdisciplinary orientation, in this area of research, has	97
been emphasized.	98
Conclusion: There is a need for the EU community of primary	99
care physicians to be included in this discussion, initiated by the	100
computer and usability engineers society, and to identify its own	101
assumptions and needs as a medical profession, as well as the	102
main research strategies.	103
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Qualitative approach of Multimorbidity by	107
semi-structured interviews with French GPs	108
semi-structured interviews with French GPS	109
	110 111
Amélie Calvez, B. Bodin, Jean-Yves Le Reste,	111
Patrice Nabbe, Benoit Chiron Marie Barais,	
Bernard Le Floch, C. Lietard	113
Dept. de médecine générale, UBO, Bretagne, France	114 115
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	116 117
Background: Multimorbidity is a poorly defined concept: more	117 118
than two chronic conditions in one individual. The word condi-	
tion leads to multiple interpretations. However, this model is	119 120
very attractive for general practice (GP) as it is closely linked to	120
the holistic core competency of GP. A pragmatic definition of	
multimorbidity in GP is necessary for future international	122

multimorbidity in GP is necessary for future international ¹²²

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research. This is one of the aims of the FPDM (Family Practice **Results:** To elaborate a tool capable of revealing the evidence 1 Depression and Multimorbidity) team. about the advantages and disadvantages of chronic disease 2 3 Research Question: Which criteria define multimorbidity in management. To point out the core problems, to improve the 4 care of patients with chronic diseases. primary care? Method: Qualitative study using semi-structured interviews 5 Conclusion: We believe that the application of a reliable tool 6 with GPs. The sampling strategy was purposive to achieve of management for care of patients with chronic diseases will 7 maximum variation. Records were fully transcribed and anocontribute to the improvement of the current model. 8 nymized. Two independent researchers did a manual the-9 matic analysis of the verbatim records before pooling results. Data saturation had to be tested in the axial coding phase of 10 11 analysis. Primary Care according to the Chronic Care Model in 12 Results: Ten interviews were conducted. Saturation was Germany – Current state and future perspectives 13 achieved with the ninth and confirmed with the tenth. Multi-14 morbidity was defined as the association of at least two med-Regine Boelter, Antje Miksch, Cornelia Jaeger, 15 ical and/or social and/or psychological criteria weighted by sex Joachim Szecsenyi, Jost Steinhaeuser 16 and age, lifestyle and sometimes revealed by a trigger factor. Dept. of General Practice and Health Services Research, University 17 Physicians were able to detect these patients through their Hospital of Heidelberg, Heidelberg, Germany E-mail: regine. 18 experience and clinical examination. Relevant signs to identify boelter@med.uni-heidelberg.de 19 multimorbidity came up with patients' behaviors, somatiza-20 tion, hidden motive of the consultation, change in attitude/ **Background:** Considering the increasing prevalence of multi-21 way of life, overmedication. These signs changed with patients morbidity, it is important to improve chronic illness care. Our 22 and culture. Multimorbidity takes time because it requires psysubproject within the ESTHER-net consortium assessed to 23 chological support to the patient, a multidisciplinary approach what degree primary care in Germany complies with the 24 and a close follow-up. Chronic Care Model. Therefore, the 'Questionnaire of Chronic 25 Conclusion: This qualitative approach for the definition of mul-Illness Care in Primary Care' (QCPC) based on a detailed littimorbidity by GPs has to be triangulated with those of focus 26 erature research and the Assessment of Chronic Illness Care 27 group studies and systematic literature review. Pooling of the (ACIC) was developed. 28 different European studies will provide a European definition Research Question: The aim of this study is to analyse the cur-29 of multimorbidity. rent state of chronic care in family practices to identify poten-30 tial for improvement. 31 Method: The QCPC was sent to 695 physicians in the federal 32 state of Saarland. Data were analyzed as frequency counts and 33 percentages or means and standard deviations. Results were **Challenges in Chronic Diseases Management** 34 displayed descriptively. in the Bulgarian Health Care System 35 Results: The response rate was 42% (290), of which 272 were 36 suitable for analysis. Participating physicians have a mean age 37 Nonka Mateva, Gergana Foreva, Rositsa Dimova, Gergana of 54 years and a female proportion of 29%. They work on 38 Petrova, Donka Dimitrova, Todor Stoev average 53 hours per week and mostly within single handed 39 Dept. of General Practice, Medical University Plovdiv, practices. The physicians see about 250 patients per week. 40 Plovdiv, Bulgaria E-mail: gforeva@dir.bg Almost half of their patients are over 60 years old and 49% of 41 the patients are multimorbid (at least two chronic conditions). 42 Background: European countries differ in their strategies for About 93% of physicians use structured disease management 43 the management of care for patients with chronic diseases. programmes (DMP), e.g. for diabetes mellitus type 2. However, 44 Due to the unfavorable demographic situation in Bulgaria as they include only 38% of their patients eligible to take part in 45 well as to the significant incidence of chronic diseases, our those programmes. Further results will be presented at the 46 health care system is facing a growing challenge to organize meeting. 47 care appropriate to the needs of the population. Conclusion: The descriptive analyses of our study gives sugges-48 Research Question: What are the main advantages and disadtions about the possibilities to improve chronic care according 49 vantages of chronic diseases management in Bulgarian health to CCM in German primary care. As a next step within our 50 care system? Does the chronic care model work? How to study, we will give the physicians a tailored feedback about 51 improve chronic illness care? their results. As there is good evidence for the CCM, an 52 Method: First, the literature will be reviewed systematically. improvement within the single elements of the model contrib-53 Second, a qualitative study will be performed using focus utes to sustainable and evidence-based chronic care. 54 groups with patients, GPs, specialists, health policy makers. 55 Third, the original questionnaire will be developed based on 56 the results from the systematic literature review and the focus 57 groups. Fourth, a reliability analysis (split-half-reliability model) 58 Training students to use the ICPC for research will be performed to validate the questionnaire. Representa-59 tives from patients' non-governmental organizations will be 60 involved in workshops to discuss the further implementation Mercier Alain, Auger-Aubin Isabelle, Favre Madeleine, 61 of the questionnaire. Boulet Pascal, Darmon David, Supper Irène, Laurent Letrilliart

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Dept. Family practice Rouen university, Facutlé de médecine de Rouen, Rouen, France E-mail: alain.mercier@univ-rouen.fr	made house calls to visit 54% of these patients. In the last 48h of the life, 48% had a GP involved in their end of life care, even though the largest proportion (40%) died in a hospital. The	63
Background: Main aim of the 'ECOGEN' study was to describe reasons for encounter, associated with the diagnosis in primary care in France, during five months in 130 GPs offices. Secondary aims were to describe the process, realized or planned, by	spectrum of the diseases was broad including chronic heart failure (42%), tumor diseases (36%), dementia (30%), cerebro- vascular diseases (29%), diabetes (27%) and pulmonary dis- eases (27%) among others. Most common symptoms were	65 66 67 68
the physician, and the determinants influencing the length of the consultation. These different components have to be observed and described by trainees during their course in the GP's office.	weakness (62%), pain (45%), dyspnoea (37%), disorientation (31%), vomiting (20%) and anxiety (18%). For symptom control, sedatives (57%) and opiates (45%) were mostly given. Only 10% of patients received additional palliative care.	70
Research Question: How could a training course be elaborated for students for the relevant use of the ICPC to assess consulta- tions for the study?	Conclusion: GPs are highly involved in palliative health care, although many people die in hospitals. The spectrum of symptoms, treatments and diseases is markedly different compared to hospice or hospital based palliative care. This should be con-	74 75
Method: Our building material was previous epidemiological studies using ICPC, theoretical data and literature collected by the French 'CISP Club.' A group of ICPC and educational experts gathered the information to build a list of objectives and the	sidered in educational programs in palliative care destined for primary care.	77 78 79
more relevant educational tools to be used. Results: First focus was on explaining difficulties and repre- sentations about the different components of the consulta-		80 81 82
tion, and explaining the 'SOAP' form to assess it. Second, vignettes were built, choosing the situations among the most	Becoming old makes one empathic: a randomized controlled trial	83 84 85
common situations based on previous studies. Third, video consultations were created, focusing on real practice life dur- ing which patients' motives, procedures, conditions were	Marie Barais, Christophe Attencourt, Amélie Calvez, Bernard Le Floch Pinar Topsever, Eva Hummers Pradier,	86 87
randomly mixed. A final session completed the course relying on questions, which were gathered in a form. After the ses- sion by itself, during the study, the questions showing up	Jean-Yves Le Reste Dept. Universitaire de Médecine Générale, Univ. de Bretagne Occidentale, Brest, France E-mail: marie.barais@gmail.com	88 89 90
were collected in a Web forum, and helped to improve the precision of the coding and support the students. The final	Background: Empathy means 'understanding and sharing the	91 92
assessment is ongoing. Conclusion: Trainees (54) were recruited and educated, and 40 regional supervisors, who benefited from the course during	feelings of another person': it is an essential faculty that should be acquired during medical education. The elderly are a par- ticularly useful model for understanding the needs for this	93 94 95
two training sessions. A final assessment is planned to evaluate and improve the use of ICPC for research and education.	learning. Several European universities have been working on this topic and are involved in this study. Research Question: The aim was to evaluate the impact of a	96 97 98
	standardized simulation session with the 'patient aging system' on the students' empathy towards the elderly.	99 100
GPs' patient care in the last phase of the life – results of a retrospective study	Method: Randomized controlled trial with trainees and medi- cal students of the University of Brest. Vision, audition, tact and mobility were hampered during a standardized simulation	101 102 103
Ildikó Gágyor, Andrea Lüthke, Jean-Francois Chenot Dept. General Practice Family Medicine, Georg August University	workshop in the tested group. The participants had to walk through a course and fulfill a pill box according to a medical prescription. The primary outcome was the score pre and post-	104 105 106
Göttingen, Göttingen, Germany E-mail: igagyor@gwdg.de	test measured through a validated questionnaire 'the Aging Semantic Differential.' The control group attended normal	107 108
Background: Although general practitioners (GPs) are considered to be a cornerstone of outpatient palliative care, little is known about the healthcare provided by GPs to patients in their last phase of life.	classes and filled the questionnaire at the beginning and the end of the day. Univariate and multivariate analysis were per- formed with a team of statisticians.	109 110 111 112
their last phase of life. Research Question: The aim was investigate end of live care from the GP's point of view.	Results: Overall 81 persons participated: 56 women and 25 men. Average score differences between pre-test and post-test were significantly higher in the test group ($p < 0.05$). Results	112 113 114 115
Method: In a retrospective study in 30 general practices, data from all patients who died within the last 12 months, were collected with a self-developed questionnaire. The focus was	were not influenced by status (trainees or medical student) or by gender. Conclusion: Patient Aging System increased students' empathy	116 117
on diagnoses, symptoms and GP involvement in the last 12 months of life. Results: A total of 452 deceased patients, mean age 81 years	towards the elderly. Further studies are needed in different places and with higher samples to integrate simulation ses- sions with this aging system during medical education. The	118 119 120
(IQR 71–88), were included in the study. In 67% of these cases, GPs made regular house calls. During the last weeks of life, GPs	effects of this awareness of aging could also be assessed with participants who are now professional prescribers.	121 122

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Why don't you take your cholesterol-lowering pills?

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9 Background: Lipid-lowering agents are effective in coronary 10 heart disease (CHD) and risk management when used appro-11 priately. Once prescribed, patients' adherence to medications 12 is crucial for the treatment target. During the 'follow-up,' we 13 realized that some patients did not start to use, continue or 14 use the pills regularly. We aimed to research the reasons in our 15 department's patient population. 16 Research Question: What is the rate of adherence to medical

- 17 treatment? What are the reasons for not starting, discontinu-18 ing and irregular use of lipid-lowering medications?
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Method: A total of 241 patients who were prescribed lipid-20 lowering pills in two outpatient clinics of our department and 21 an affiliated family practice between January 1st, 2010 and 22 December 31st, 2011 were included in this retrospective cross-23 sectional study. By telephone (75) and face to face (166) inter-24 views, the patients were asked whether they started, continued, 25 or regularly used the pills, and if not, the reason for not start-26 ing, discontinuing and irregularity.

- 27 Results: Of 241 patients prescribed lipid-lowering pills, 68 28 (28%) were still on treatment, 82 (34%) had never started, 91 29 (38%) discontinued or were using irregularly. The reasons for 30 never starting the medication were; not want/like to use pills 31 (n = 36), worry about side effects (n = 22), want to lower by 32
- lifestyle changes (n = 17), insurance problems (n = 4), do not 33 want to use because of other health concerns (n = 3). The rea-34
- sons for discontinuing the medication were; side effects 35 (n = 16), news on media (n = 31), normalization of lipid levels
- 36 (n = 12), want to lower the lipids by diet without pills (n = 11),
- 37 want to intermit taking the pills (n = 20), pregnancy (n = 1). 38 Conclusion: Our patients' adherence to lipid-lowering medica-

39 tions was low (28%). Patients' wishes and worries are more 40 prominent in negative self-decision. Recent discussions in the 41 media might also have a negative influence on our patients' 42 self-decision. We need a patient education plan for improving 43 adherence to treatment.

Improving quality of care of hypertension by 48 educational outreach visits with equipment 49 in primary care settings: A pilot study 50

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- 52 Christophe Girault, Mauviard Elisabeth, Thomas Bourrez,
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57 Background: Self-blood pressure monitoring (SBPM) is recom-58 mended by the French and European guidelines, to improve 59 the management of hypertensive patients. The diffusion of 60 recommendations is insufficient because despite the use of 61 SBPM the respect of recommendations remains poor.

15 Abstracts

Research Question: To equip GPs with SBPM materiel during 62 academic visits and measure GPs' and patients' satisfaction. 63 Method: A pragmatic study was performed in real medical set-64 tings financed by the French national security system. The 65 study took place in the Haute-Normandie region in France, 66 among GPs from CME groups, who agreed to participate. They 67 received information, material and three new devices for SBPM 68 to be used by patients in their practice. After a year of follow 69 up, each GP was due to provide 10 patients' satisfaction files 70 (10 closed questions, 1 open) with SBPM with 10 SBPM mea-71 surements, and to complete a final questionnaire (8 closed 72 questions, 3 open) on the experiment. 73 Results: A total of 94 GPs participated. According to their dec-74 larations. 58 (78.3%) of GPs lent out devices. Less than 25% of 75 their patients benefited from the loan of the device. Overall, 76 80% (n = 81/101) participated to the final evaluation. Of whom 77 92.6% (n = 75/81) think their blood pressure targets could be 78 improved for more than 25% of their hypertensive patients, 79 and for 64% for up to at least 50% of their patients. From 722 80 patients files. 97% found the loan of SBPM useful. At least 93% 81 found the explanations given by doctors, the notices, the rules 82 of measurement and the measurement itself simple and 94% 83 are ready to start again. 84 Conclusion: Although measured by subjective criterions, this 85 simple intervention has pragmatic effects in terms of GPs' 86 behavior of patients access to SBPM. Patients' and GPs' satis-87 faction was high. This kind of knowledge transfer could well 88 improve the simple diffusion of recommendations. 89 90 91 92 93 General practitioners' programmed intervention 94 improves cardiovascular disease factors 95 in the Croatian elderly 96 97 98 Davorka Vrdoljak, Biserka Bergman Marković, 99 Ksenija Kranjčević, Jasna Vučak, Dragica Ivezić Lalić 100 Dept. of family medicine, University of Split school of medicine, Split, Hungary E-mail: davorka.vrdoljak@mefst.hr 101 102 103 Background: Nutritional status and cardiovascular (CV) risk fac-104 tors in the elderly are major challenges in general practitioners' 105 (GPs') practice. 106 Research Question: What is the geographic distribution of mal-107 nutrition and CV risk factors in the population aged \geq 65 years, 108 enlisted with GPs in Croatia? What is the efficacy of GPs' pro-109 grammed intervention (education on lifestyle/pharmacother-110 apy intervention according to guidelines including follow up 111 protocol) in patients compared to 'usual care?' 112 Method: The sample was representative for Croatian elderly 113 population enlisted with GPs. In first cross-sectional arm, GPs 114 included 738 participants aged \geq 65 years (response rate 78%), 115 interviewed them using a questionnaire with additional anthro-116 pometric measurements (BMI, WC, WHR, skinfold thickness, 117 Framingham CV risk score) and blood sample analyses covering 118 CV risk factors. There were 371 (50%) participants in the interven-119 tional and 367 (50%) in control group. In the interventional arm,

120 654 participants (98%) in the study [353 (95%) interventional, 302 121 (82%) control group], were interviewed, measured and had blood 122 sample laboratory analyses performed using identical methods.

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Results: Most participants were overweight/obese, with no significant difference regarding region (coastal/continental), and significantly more overweight in urban and obese and undernourished in rural settlements.

In the cross-sectional study arm, 213 (29%) participants met primary CV prevention criteria (without established CV disease or diabetes), and the remaining 465 (63%) met secondary CV prevention criteria. Numbers for primary and secondary CV prevention in the interventional arm were 153 (23%) and 501 (68%), respectively. Target blood pressure (BP) goals for primary CV prevention were achieved in 51% (95% CI = 46.20–51.20) and target lipid goals in 18% (CI = 15.69–21.09). In secondary CV prevention, target BP < 130/80 mm Hg was found in 41% (57.63–60.97), while total cholesterol < 4.5 mmol/l and LDL – cholesterol < 2.5 mmol/l was reached in 12.2% (CI = 9.13–15.27) participants.

Patient information leaflet in the mid term control of type 2 diabetes

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- 25 Claudia Vicente, Ana M. Garcia, Vasco Queirós,
- 26 Elsa Lima, Maria A. Grilo, José A. Rodrigues
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 Portugal E-mail: Imsantiago@netcabo.pt
- Background: Enablement, through information, is a key feature
 for type 2 diabetes (T2D) better control.
- Research Question: To study the impact of patient information,
 by a leaflet, on what diabetes is and its therapeutics, on T2D
 control
- control.
 Method: Random, non blind, controlled, multi-centre, prospective study in three consecutive diabetes consultations: the begin-
- ning (T0), at six (T1) and nine months (T2), from October 2010.
 The validated leaflet was distributed by Family Doctors to T2D patients using a protocol data-sheet. T2D patients assigned to the
- 40 leaflet group (PAL) were reminded about to reading it and patients
 41 without the leaflet (PWL) received usual care. T2D patients con-
- without the leanet (FWE) received usual care. 12D patients con sent was obtained. A1c Hemoglobin (HbA1c), number of different
 anti-diabetic medicines (NAM), number of daily anti-diabetic
 medicine doses (DAMD) and physical activity (PA) were studied
- 45 using descriptive and inferential statistics.
- Results: Cohort of n = 96 patients, with no statistical differences
 between the two groups at T0. There were nine (9.4%) and 18
 (18.8%) drop-outs at T1 and T2, respectively. From T0 to T1 to
- 49 T2 the trends were: A1cHb for PAL $(6.7 \pm 1.8\% \text{ to } 6.7 \pm 0.9\% \text{ to}$
- 50 6.5 \pm 0.8%) and for PWL (6.9 \pm 1.3% to 6.8 \pm 0.9% to 7.0 \pm 1.2%);
- 51 NAM for PAL (1.8 \pm 0.8 to 1.8 \pm 0.8 to 1.8 \pm 0.8) and for PWL
- 52 (1.6 \pm 1.0 to 1.8 \pm 0.9 to 1.9 \pm 1.0), DAMD for PAL (2.8 \pm 1.4
- 53 to 2.8 ± 1.4 to 2.7 ± 1.5) and for PWL (2.4 ± 1.4 to 2.6 ± 1.5 to 54 2.9 ± 1.7); for practicing PA for PAL (19 (39.6%) to 21 (43.8%) to
- 2.3 1.7, for practicing FA for FAL (19 (35.0%) to 21 (45.8%) to
 19 (45.2%) and for PWL 20 (41.7%) to nine (22.0%) to 15 (48.4%).
- 56 There was a significant difference for PAL between T0 and T2 for
- 57 increasing PA (p = 0.018) and for PWL for DAMD (p = 0.011).
- 58 **Conclusion:** The small number of patients is a limitation. A
- 59 positive trend was verified for all the variables in PAL; the same
- did not occur in PWL. Information leaflet based information
 appears to be of value in the control of diabetic patients.
- appears to be of value in the control of diabetic patients.

Comparison between primary care indicators in Hungary and in the UK

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Background: Improving the quality of care in general practice is very important. The quality indicator system was introduced in Tungary in 2009 and was updated in 2011.

In the United Kingdom, a quality indicator system, Quality Outcome Framework (QOF) was introduced in 2004 and since then has been modified several times, recently in 2011.

Research Question: What are the differences and similarities between the indicator systems? How did it improve the quality of care? How can we measure that? What changes could be made to improve the quality of care? How can we use the experiences from the UK system to improve the Hungarian indicator system?

Method: Legal background, national guidelines, and regulations of the indicator systems were compared in both countries. Systematic literature review and analysis of available data were conducted in the relevant topics.

Results: There were 15 adult and six paediatric quality indicators in Hungary and 134 indicators in the United Kingdom in
2011. The Hungarian indicator system measures mostly the
clinical activity of GPs. There are clinical indicators, but no
organisational or patient experience domains in Hungary.88
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91There is a big difference in the financial background of the
systems, the financial reward and incentive is smaller in
Hungary.91
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There are no studies, which investigate how the introduction of the indicator system improved quality in Hungarian primary care. Results with the QOF are encouraging in the UK, the Hungarian system should be revised and there might be a need for some changes.

Conclusion:The Hungarian indicator system needs to be
improved and revised to ensure the quality of care.99
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102garian system and how it is improving the quality of care.101
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Diagnosis and coordination of patients presenting with dermatological problems in general practice in Germany: a qualitative study of GPs' approaches

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Background: GPs encounter patients with dermatological diseases regularly. Many of these patients are treated by the GP 117 while others, mainly suffering from chronic disorders, will be 118 referred to a dermatologist. There is a large variation in the 119 proportion of referrals to or direct encounters with specialists 120 in Germany. Although a highly relevant topic, there is virtually 121 no research on dermatology in primary care. Consequently, 122

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1 little is known about GPs diagnostic approaches in these 2 patients. 3 Research Question: Aim is to analyse how GPs approach 4 patients presenting skin disease; how they cooperate with dermatologists; and what areas GPs should identify for further 5 6 research and training. 7 Method: In semi-structured interviews, 15 GPs were asked to 8 describe, among other topics, their personal diagnostic approaches in 2–3 of their patients with acute or chronic skin 9 problems they had prospectively identified (stimulated recall). 10 11 Interviews were taped, transcribed and analysed qualitatively 12 by two independent raters. 13 Results: Data collection not yet finished; results and conclu-14 sions will be presented at the EGPRN meeting. 15 16 17 18 Towards a multidisciplinary Primary Care Research 19 Network: a data linkage project 20 21 Robert Verheij, Stefan Visscher, Dinny de Bakker 22 Dept. primary care, Neth. Inst. Health Services Research, Utrecht, 23 The Netherlands E-mail: r.verheij@nivel.nl 24 25 Background: GP electronic medical records provide a wealth 26 of information regarding the health problems in the population 27 as well as the functioning of the health care system. However, 28 in the past decade, multiple developments have made it neces-29 sary to move towards an integrated primary care information 30 network: the introduction of out of hours services and partial 31 abolishment of the referral system; disease management pro-32 grammes in which multidisciplinary teams take care of chronic 33 patients. These and other (future!) developments make it nec-34 essary to link the GP data with data about health service utili-35 sation from out of hours services, allied health care providers 36 such as physiotherapists, primary care psychologists, pharma-37 cies and secondary care. The Dutch ministry of health asked 38 NIVEL to set up such an information network. 39 Research Question: What are the issues need to be resolved 40 to create this network, and how can they be resolved? 41 Method: First many important issues pertaining to will be 42 described: governance over the data (who is in charge regarding 43 data coming from different sources); trust; data protection; data 44 quality; interoperability; validity; and representativeness. 45 Results: Subsequently, the way dealing with these issues will 46 be discussed. For example, the governance issue is resolved by 47 strong involvement of stakeholders; the privacy issue is resolved 48 problems in family practice by pseudo-anonymisation of personal identification numbers; 49 the data quality issue is taken care of by developing an instru-50 Jean Karl Soler, Inge M. Okkes ment to measure data quality. 51 52 Attard, Malta Email: jksoler@synapse.net.mt 53 54 55 GPs' poor adherence to asthma guidelines: a lack 56 of knowledge? 57 58 Dörte Piepenschneider, Eva Hummers-Pradier, 59 Heidrun Lingner 60

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Background: Initially, 90% of patients with asthma consult a 62 general practitioner, but their treatment does not always con-63 form the asthma guidelines (AG). Looking for improvement, 64 the first step is to explore the barriers of a successful imple-65 mentation of AG. Therefore, in a prospective mixed-methods 66 study, patients' and general practitioners' (GP) concepts of 67 'best asthma therapy,' and GPs' knowledge of the guidelines 68 was analyzed. Results of the latter is presented here. 69 Research Question: Could a lack of knowledge be one of the 70 reasons for GPs' poor adherence to AG? 71 Method: A total of 585 GPs and GP trainees (GPt) from Lower 72 Saxony and Bavaria were invited to participate in the survey. 73 They were asked to fill in a questionnaire, which focused on 74 the definition of asthma, clinical findings, diagnostics, differen-75 tial diagnostics, treatment and prevention. The demographic 76 part was followed by an asthma-specific one including 15 ques-77 tions and three case studies. The credit points were awarded 78 according a bonus-malus system. Descriptive and analytic sta-79 tistics with SPSS was used to analyse results. 80 Results: Return rate: 295 physicians (50.4%): demographics: 75% 81 of GPt and 25% of GPs were female. GPt attained a mean total 82 score of 57%. Bavarian GPt scored better than their colleagues 83 from Lower Saxony (average 58% versus 55%). Significant differ-84 ences especially appeared in: definition, clinical findings and diag-85 nostics. GPs reached a mean total score of 58% without significant 86 differences between the results of the Bavarian GPs and the ones 87 from Lower Saxony. GPt and GPs showed in the main all-over-88 uncertainty concerning the two subjects: prevention and clinical 89 findings. Both groups were best in differential diagnostics, which 90 mainly aimed to discern asthma and COPC. 91 Conclusion: Sub-score analyses of answers suggest a subopti-92 mal knowledge of all tested areas of the AG. But these results 93 may not reflect real daily practice, because this was an artificial 94 setting. GPs and GPts might have handled cases differently in 95 a real practice situation. Nevertheless, the qualitative parts of 96 the AG-GPs study supports this finding and gives first insights 97 in reasons, why physicians' asthmas treatment deviates from 98 the AG requirements. However, there is a need for further 99 investigation. Meanwhile physician knowledge of AG should be 100 improved. 101 102 103 104 105 The application of the Transition Project ICPC data 106 to study the contribution of patients' reasons for 107 encounter to the final diagnoses of common

108 109 110 111 112 Dept. Executive Director, Mediterranean Institute of Primary Care, 113 114

115 Background: This study uses the Transition Project data to study 116 the contribution of patients' reasons for encounter to the final 117 diagnoses of common problems in family practice. This work is 118 part of our contribution to the EU funded TRANSFoRm project, 119 Grant Number FP7 247787. 120 Research Question: What are the quantitative relationships 121 between common reasons for encounter and common diagno-122

ses (episode titles) within episodes of care in routine family

1 practice in practice populations from Malta, the Netherlands and Serbia? What are the generic similarities and differences 2 in the relationships between common reasons for encounter 3 4 and common diagnoses (episode titles) in these practice populations? Do these similarities in the relationships between 5 6 common reasons for encounter and common diagnoses sup-7 port the existence of an international core process of diagnosis 8 in the domain of FM?

Method: The Transition Project database, collected from the 9 electronic patient records of family doctor practices, was used 10 11 to study the epidemiology of family medicine. Participating fam-12 ily doctors (FDs) recorded details of all their patient contacts in 13 an 'episode of care (EoC)' structure using the International Clas-14 sification of Primary Care (ICPC). Reasons for Encounter (RfEs) 15 presented by the patient and episode titles (diagnostic labels of 16 EoCs) were classified with ICPC. The relationships between RfEs 17 and episode titles were studied with Bayesian methods.

Results: Relationships between patients' RfEs and doctors'
 diagnosis within EoCs of common health problems, as coded
 using ICPC are described.

21 Conclusion: Distributions of diagnostic associations between 22 RfEs and episode titles in the Transition Project international 23 populations show remarkable similarities and congruences in 24 the process of diagnosis from both the RfE and the episode 25 title perspectives. The congruence of diagnostic associations 26 between populations supports the use of such data from one 27 population to inform diagnostic decisions in another. 28

Rate of women attending GP waiting rooms, under-screened for cervical cancer

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41 Background: In France, screening for cervical cancer is oppor-42 tunistic, except in 13 districts out of 100 where screening is 43 organized. National guidelines recommend screening by Pap-44 test every three years, after two yearly initial screenings, from 45 the age of 25 to 65. Coverage is 56.6% of the target population 46 with 51.6% of the women under-screened and 40.6% over-47 screened. GPs carry out about 5% of the Pap-tests. Most of 48 Pap-tests are done by gynaecologists. Barriers in screening 49 assigned to women and GPs are roughly known. It is not known 50 what proportion of the under-screened population is to be 51 found in GPs' practices.

Research Question: What is the rate of women attending GP
 waiting rooms which are under-screened for cervical cancer?
 Mathed: Curvey by 250 celf completed superiors. Setting:

Method: Survey by 250 self-completed questionnaires. Setting:
 GP waiting rooms in Northern France (only opportunistic screening). Randomization unit: GPs. Main outcome: last screening prior to five years.

Results: The study is still ongoing, but final results are
expected to be known in May. Preliminary results tend to
show that only 15% of the women attending GP offices are
under-screened.

Conclusion: The vast majority of under-screened women appear 62 to be dropped outside the primary health care circuit. Only generalized organized screening might increase the coverage rates. 64

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Attitudes and compliance of target populations in performing of fecal immunochemical test at home

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77 Background: There is undeniable evidence that the screening 78 for colorectal cancer (CRC) may lead to a 40% reduction in mor-79 tality. In Bulgaria, screening tests for CRC have not been per-80 formed systematically. The requirements for conducting 81 screening for CRC, introduced some time ago with the National 82 Frame Contract, were cancelled due to low compliance and 83 negative attitudes of GPs and patients to the guaiac-based fecal 84 occult blood test (gFOBT). 85

Research Question: This study aims to explore attitudes and
willingness of persons to perform the immunoassay occult
blood test (iFOBT).86
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Method: A two-stage selection representative cross-sectional
survey was carried out. Forty practices for primary care from
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Plovdiv region were randomly selected. Direct individual anon-
ymous questionnaires (before and after education information
campaign including a discussion and handing leaflets) were
gate distributed to 600 persons aged above 45 years from the
selected practices.89
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Results: The results revealed that the demographic character-96 istics, such as gender, age and level of education of respon-97 dents, had a significant impact on their attitudes and behavior 98 in terms of doing the test at home. The study found that the 99 majority (>80%) of respondents had readiness and willingness 100 to carry out the immunoassay test for occult blood at their 101 homes. The preferred methods for obtaining health informa-102 tion for early diagnosis of various diseases, according to 103 respondents were discussions with physician, followed by 104 printed materials and the internet. The respondents' prefer-105 ences were informed by a general practitioner followed by 106 physician with other specialty, which confirmed their confi-107 dence in health professionals, p < 0.01 (u = 3.64). 108

Conclusion: Health education had significantly influenced their109awareness about the usefulness of the test and its implementation. This allows the implementation of patient-centered110approaches to these target groups and achievement of higher112quality of preventive activity of GPs.113

Slovene family physicians decision making for testing blood and urine

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Background: Laboratory tests are part of routine diagnostic procedures in family medicine and the care of patients with chronic diseases. The accuracy of diagnosis is dependent on the adequacy of diagnostic tests. Research results would be applicable for further analyses and recommendations regarding proficiency and cost-effectiveness in using laboratory tests.

Research Question: What is the portion of patients referred to
laboratory investigations; the portion of the most frequently
performed laboratory tests; and which are the factors influencing decision making of family physicians for performing
them?

Method: The study was based on a cross-sectional study of
 Slovenian family physicians. A random sample of 42 physicians
 participated in the survey. The first successive 300 consulta-

tions were recorded. A total of 12 596 contacts with patientswas observed.

18 Results: Complete blood count, glucose, sedimentation rate, 19 urine analysis and lipid profile account for 54.6 % of all tests 20 and belong to five most used laboratory tests. Blood tests were 21 5.3 times more often than urine tests. The lowest portion of 22 patients referred to laboratory tests by a single physician was 23 8.8 %; the highest was 47.2 %. On average, 20.6% of patients 24 were referred for laboratory tests by one physician. On aver-25 age, 184.2 laboratory tests were ordered per physician and 5.4 times difference was observed between the lowest and the 26 27 highest number of tests per physician. Referral to laboratory 28 tests and the number of laboratory tests for an individual 29 patient depends on the characteristics of patients, physicians 30 and offices in which they work. 31 **Conclusion:** Great variation in referring patients for laboratory 32 tests was observed in Slovene family physicians. The portion of 33 the patients referred, and the most frequently performed tests 34 are comparable to the data from other European countries. 35 There is a need for research about the reasons for such variation in referrals for laboratory tests. 36 37

The importance of family suicide history in the
 screening of depression in primary care

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49 Background: Depressive disorders are common conditions in 50 primary health care service, but GPs have some difficulties in 51 the diagnosis of depression.

52 Research Question: What is the current prevalence of DSM-IV53 depressive disorders in primary care?

54 Method: In the present study among 984 primary care attend-

ees in six GP practices in Hungary, we used the Beck Depression

56 Inventory (BDI) and the PRIME-MD screening instrument.

57 Overall 60% were female, mean (SD) age: 52 (17) years. Socio-58 demographic characteristics of the patients and family history

59 of completed suicide were recorded.

60 **Results:** The current prevalence rate of DSM-IV depressive dis-61 orders was 18.5%: 7.3% symptomatic major depressive

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episode (MDE), 2.3% MDE in partial remission, 4.0% dysthymia, 62 4.9% minor depressive episode. Beck Depression Inventory iden-63 tified any current depressive disorder with 95% sensitivity and 64 56% specificity and the same figures for current symptomatic 65 major depressive episode were 83% and 23%, respectively. The 66 results are similar to those reported previously from Hungary 67 and from other countries. 50% of patients with a family history 68 of suicide, and only 14.3% of those with a negative family history 69 have a current MDE (symptomatic and in partial remission, com-70 bined). Every second primary care patient with, but only every 71 seventh patient without, a family history of completed suicide 72 have had some current major depressive episode. 73 Conclusion: The Beck Depression Inventory and PRIME-MD are 74 useful screening tools for detecting depressive disorders in pri-75 mary care. Given the strong relationship between untreated 76 depression and suicidal behaviour, these results also suggest 77 that successful screening, diagnosis and management of 78 depressive disorders in primary care are important steps in 79 suicide prevention. The history of completed suicide among 80 first or second degree relatives could be a good and simple 81 clinical marker for current MDE in primary care patients. 82 83

A Methodologic Study of the Four-Dimensional Symptom Questionnaire (4DSQ) in Turkish

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Background: Screening tests that identifies and differentiates94depression from other common disorders will help primary95care physicians in Turkey as it is the number one mental health96problem in Primary Care.97

Research Question: Will the 4DSQ translated in Turkish, be98precise and accurate enough to use in primary care for the99Turkish speaking consultants?100

Method: The 4DSQ is a self-report questionnaire comprising 101 50 items distributed over four scales; depression, anxiety, som-102 atization and distress. The reference period is 'the past week.' 103 The response categories are worded as 'no,' 'sometimes,' 'reg-104 ularly,' 'often,' 'very often or constantly.' The Turkish version 105 was obtained through a procedure of translation from Dutch 106 into Turkish and back-translation by three bilingual physicians. 107 It was applied to 220 patients who visited Marmara University 108 109 Medical School Ambulatory clinics, other than psychiatry, and including the Family Medicine clinic. 110

Results: The mean age of the participants was 35.4 ± 1.4 , women 111 comprised 67.3% (n = 148), higher educated and high school 112 graduates accounted for 88.5%, 61.8% (n = 136) were married, 113 32.7% housewifes and 25.9% students. According to the original 114 cut off points of 4DSQ, 19.5% (n = 43) have depression risk, 115 20.5% (n = 45) have anxiety), 67.7% (n = 149) have somatization 116 and 55.9% (n = 123) have distress risk. When Z score of the par-117 ticipants' mean point is concluded as >1 then depression fre-118 quency was 13.6%, anxiety 14.5%, and somatization and distress 119 15.9%. Original scores of the 4DSQ was higher in women in all 120 four dimensions (p = 0.01, p = 0.001, p = 0.000, p = 0.000, 121 respectively for depression, anxiety, somatization and distress). 122

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Conclusion: Psychiatry consultations of the randomly selected participants, either with high or low scores, will be organized as the second step of the validity study.

The CODEX test: diagnosis of dementia in primary care

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Background: The diagnosis of dementia is a very common 15 medical problem in primary care. It is as important to reassure 16 the sane patients as to address the pathological ones. The Mini 17 Mental State Examination (MMSE) is the referential test, but is 18 not used in primary care. The team of Prof. Belmin (geriatric 19 physician, Paris) wanted to developed a quicker test, named 20 CODEX, selecting the most discriminant parts of standards. 21 There are two stages: a combination of three words of Dubois 22 and the clock Test, and, if abnormal, a simplified spatial orien-23 tation. It has been validated on 300 patients. 24

Research Question: What is the validity of the CODEX test compared with the definitive standard (criteria of DSM IV) in primary care?

28 Method: Comparative multicenter double-blind study between

the CODEX test and the definitive standard in patients over 75

years old with memory or attention problems. Each patient
 passed the Codex with a GP, and after, at home, the referees

tests with a psychologist. Two independents physicians com-

33 pared results for each patient.

Results: Twenty-one GP investigators. A total of 139 patients, 92 34 women and 47 men, age: 82.3 ± 4.6 years. Experts' diagnosis: 35 demencia 37 (27%), no demencia 102 (73%) including Mild Cog-36 nitive Impairement 46 (33%). The sensitivity for Codex in primary 37 care is 87%, in center is 92%, and the MMS 91%, the specificity 38 is 72%, 85% and 70%, respectively. The predictive positive value 39 is 53%, 89% and 54%; the negative one is 94%, 86% and 93%. 40 Conclusion: This study confirms the precedent results of the 41

Codex, compared to the MMS, with an average time of two minutes.

Efficacy of treatment of Herpes Zoster and prevention of post-herpetic neuralgia with Trans Cutaneous Neural Stimulation (TENS)

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Background: Post-herpetic neuralgia is the most common complication of Herpes Zoster. Its treatment is difficult and results are not good. The results of some rare retrospective studies have shown that treatment of Herpes Zoster with TENS is at least as effective as with antiviral drugs, and that the prevention of post-herpetic neuralgia is even better.

Research Question: In a prospective, case control study we 62 compare the effectiveness of treatment of Herpes Zoster and 63 prevention of post-herpetic neuralgia with antiviral drugs and 64 TENS. We would like to show that TENS is more effective in 65 prevention of post-herpetic neuralgia than antiviral drugs. 66 Method: Threehundred adult immunocompetent patients 67 were enrolled, which were divided into two groups. The first 68 group did not receive antiviral therapy; the first subgroup (1/2 69 of first group) received TENS, the second subgroup (1/2 of first)70 group) received only analgesic treatment, when needed. The 71 second group received antiviral therapy; the first subgroup (1/2)72 of second group) received only antiviral drug, the second sub-73 group (1/2 of second group) received antiviral drug and TENS. 74 The duration of pain preceding the rash, the number of papules 75 and vesicles, the duration and the intensity of pain (assessed 76 on VAS), the period until the resolution of rash, and possible 77 side effects were followed. Patients were checked twice weekly 78 until the resolution of rash, and three and six months after 79 the rash. 80

Results: At the moment around 150 patients have enrolled and 81 26 patients have completed the study. Among them two 82 patients didn't receive any specific therapy (only analgesics), 83 five patients received only TENS, 10 patients received only antiviral drug, and nine patients received both TENS and antiviral 85 drug. Results regarding relief of acute pain are very good in the patients receiving TENS. None of these 26 patients developed 87 post-mherpetic neuralgia. 88

Using ICPC2 chapter Z in Primary Care in a group of health centres in Portugal

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Background: To focus the appointment register data regarding100the approach to patient-centered problems in a bio-psycho-101social view with the use of ICPC2 classification system (for102symptoms (S), diagnosis of a problem (A) and outline a plan of103procedure (P), specifically its chapter Z, because it extends the104paradigm and reflects the impact of the European Definition105of Family Medicine.106

Research Question: Determine the frequency of the coding of
the group Z ICPC2 in (S) (A) and (P) in 2010 in a group of public
health centres (ACES) in Central Portugal.107
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Method:Observational, cross-sectional analysis. After authorization, global results were obtained for each doctor record in1102010 on all Health Centres (HC) in the ACES, by using the SAM-112STAT statistical program. We studied the components of Z on113(S) (A) and (P), using descriptive and inferential statistics by114Kruskal-Wallis and OneWayANOVA.115

Results: Studied seven of the eight HC that compose the ACES. 116 The chapter Z components coded in S represents 0.2% and 0.4% 117 of the components of the total registered in all 17 chapters. The 118 use of Z chapter does not differ statistically by HC but the average number of components per HC has a significant difference 120 in (A) 13.4 ± 17.2 (p = 0.008) and (S) 14.0 ± 8.4 (p < 0.001). 121 There is almost no coding in (P). The six components most 122

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registered are Z22, Z14, Z18, Z12, Z20 and Z5 representing on
 average 62.6% of the Z codes in (A) (40.5% to 85.1%), and 49.2%
 of Z codes in (S) (18.9% to 94.9%) by HC.
 Conclusion: The coding for Z is 0.2% (S), 0.4% (A) and almost

Conclusion: The coding for Z is 0.2% (S), 0.4% (A) and almost zero in (P), with no quantitative or qualitative difference between the HC. The average number of components differs by HC. No comparative data prior or later. The low prevalence found could motivate coding training for physicians.

11 STUDY PROPOSALS

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Multidisciplinary cooperation in diabetes management: the Ferrara project

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22 Background: Type II Diabetes mellitus and its comorbidities 23 require regular structured treatment. Regrettably, studies consis-24 tently document a large gap between evidence-based standards 25 and current diabetes care: on the other hand, prolonging patients 26 contact with GPs tends to increase the already heavy workload. 27 Research Question: Can an advanced model of a multidisci-28 plinary intensive diabetes education and management pro-29 gramme be effective and feasible in our primary care setting? 30 Method: The setting of our project is the city of Ferrara (Italy) 31 where 29 family doctors and six trained diabetes nurses will be 32 involved in the project: 400 diabetics, selected from the lists of 33 two multipractices, with prolonged self-management difficulties 34 manifesting in poor glycaemic control, will be referred to a pri-35 mary care diabetes outpatient clinic. Inclusion criteria will be: 36 three consecutive HBA1c > 7.5 (or 8.0 in uncomplicated diabetics 37 aged over 75). Each patient will be referred to a trained diabetes 38 nurse 'Case Manager.' This Case manager using a checklist, will 39 evaluate the need of the patient (missing investigations, need for 40 specialist consultations: ophthalmologist, dietician, cardiologist). 41 The participants will be measured before they start the interven-42 tion (T0), and at 1-year follow-up (T1). Data on glycaemic control 43 (HbA1c), LDL cholesterol, blood pressure, body mass index (BMI), 44 smoking status and data on procedures performed or not will be 45 assessed as outcome indicators. Changes over time will be analy-46 sed and means at T0 and T1 will be compared. 47 (Expected) Results: The results of the project will be useful for 48 further decision and evaluation on the cost and feasibility to 49 implement this approach on a wider scale. 50 Discussion: Similar experience in your country. Further out-51 come indicators to analyze. 52 53 54 55 Recognising early dementia in the team 56 of family practice 57 58 59 Tatjana Cvetko

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Background: Despite frequency of disorder, early recognition of 62 dementia in primary care is missed due to the presence of diag-63 nostic and therapeutic nihilism between the professionals. 64 Dementia differs from other chronic diseases. Usually patients 65 do not complain neither are they aware of it, so we have to assist 66 them through the process of care. Noticing some changes in 67 behaviour or mood require some further steps to confirm the 68 illness and progress from observing to diagnosing and treatment 69 of the patient. Exploring the meaning of the first thought 'might 70 be dementia' and the importance of interpersonal communica-71 tion within the team to transmit the information in a proper way 72 could be helpful in recognizing early dementia. 73 Research Question: Do statements and feelings represent barri-74 ers in recognizing early dementia? What different forms of inter-75 actions in the team improve the recognition, diagnosing and 76 treatment of patients with early dementia in primary care? 77 Method: The protocol consists of three parts. After a literature 78 review, the second part consists of qualitative research using the 79 focus-group interviews in two steps until saturation occurs. At 80 first, focus groups are conducted with representatives of differ-81 ent professions including the caregivers. In the second step, 82 members of the team together form the focus group. In the part 83 of the study, the results of previous data are analyzed and pre-84 sented to the final meeting of experts where recommendations 85 about early dementia in primary care team will be proposed. 86 Reliability and internal validity is assured, triangulation of experts 87 and methods will confirm the external validity. 88 (Expected) Results: Early recognition and treatment slow down 89 dementia and improve quality of life for the whole family. 90 Enhancing the awareness of team members about the initial 91 signs of dementia and stimulating the information interactions 92 between them could provide improved care of patients with 93 dementia in family medicine. 94 Discussion: Is an additional questionnaire about the initial 95 signs of dementia among health professionals needed to high-96 97 light the pre-understanding of the research? 98 Information from caregivers is important for diagnosing 99 dementia. Is there any doubt? 100 101 102 103 Primary Care management of patients suffering from 104 eating disorders (ED) by French General Practitioners 105 (GP): Identification of the population 106 107 Jean S. Cadwallader, C. Hassler, B. Falissard, 108 Caroline Huas 109 Dept. of General Practice, Faculty of Medicine, Paris, France E-mail: 110 jscadwallader@yahoo.fr 111 112 Background: Patients suffering from ED in France are mostly 113 studied in secondary or tertiary care, where patients suffer 114 from specific syndromes as anorexia nervosa. An early detec-115 tion and an adequate treatment are known to improve the 116 prognosis. Before the detection of ED, patients visit their GP 117 more frequently than the general population, but for other 118 119 purposes. In primary care, few studies describe the subsyndro-

mic disorders and patients' characteristics, especially in France,

where there have never been trials on this topic so far. There

seems to be a correlation between depression and ED.

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Research Question: What are the characteristics of patients suffering from ED in primary care? What is the chronological correlation between ED and depression?

Methods: A primary descriptive study of 1 319 patients suffering from ED was carried out on a French GP database. Patients
were described by their age, gender, number of consultations,
comorbidities and medicine consumption. A temporal study
was then carried out to evaluate the link between depression
and ED.

(Expected) Results: The results will be available in May 2012.
It seems clear that patients' characteristics in primary care are
totally different from tertiary care, with a great diversity of
comorbidities.

Discussion: It is a preliminary descriptive study. A second comparative study with a case control method will be following. A
 third part with a mixed method will exploit the results of the
 two first studies.

Arterial hypertension screening by home blood pressure measurement

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Background: White coat hypertension (WCH) might affect up 29 to 42% of the hypertensive treated patients in France. The pro-30 portion of patients with masked hypertension (MH) is esti-31 mated to be up to 10%, but is still uncertain. WCH is associated 32 with an increased risk of developing sustained hypertension. 33 MH is associated with an increased cardiovascular risk than 34 confirmed hypertension. Those particular hypertension states 35 suggest that treated patients are not those who really deserve. 36 it. The best way to diagnose WCH and MH is ambulatory or 37 home blood pressure (BP) measurement. Some studies evalu-38 ated the benefit of home BP measurement to monitor treated 39 hypertensive patients or to confirm high BP measured by the 40 doctor. The use of home BP measurement to systematically 41 screen patients with or without any high BP measure at the 42 doctor's office has never been evaluated. 43 Research Question: What is the efficacy of home BP screening in 44 terms of diagnosis of hypertension and initiation of an antihyper-45 tensive treatment in a population of adults over 40 years old? 46 Method: Prospective comparative controlled study. Selection 47 of adults over 40 years old followed by a general practitioner. 48 Inclusion of all eligible patients consulting their general practi-49 tioner during a selected period (i.e. 1 month). Exclusion crite-50 ria: patients with antihypertensive treatment. Inclusion criteria: 51 patients over 40 years old who signed consent. Patients will be 52 randomized into an intervention and a usual group. In the 53 intervention group, three home BP measurements (morning

intervention group, three home BP measurements (morning
and evening) for three days with a validated electronic device
will be proposed. The management of results depending on the
doctor's decision will be reported. Control group will have
usual care. We will report for each patient their cardiovascular
risk factors, treatments, hypertension diagnosis, data about BP

60 measures at the office and prescription of home or ambulatory

61 BP monitoring.

Discussion: Should we randomize at the patient level, or use 62 cluster randomization? Is there a risk of diffusion of the intervention in the control group? Should we stratify the population? Should we use electronic devices that record BP 65 measures? 66

Home and ambulatory blood pressure measurement in France

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Background: New recommendations about blood pressure 78 (BP) measurement have been published by the French Society 79 of Hypertension (SFHTA) in 2011. BP measurement outside the 80 doctor's office is recommended to confirm the diagnosis of 81 arterial hypertension before introducing an antihypertensive 82 treatment and during the monitoring of the treatment. Ambu-83 latory or home BP measurement is indeed more reproducible, 84 more related to target organ damage (heart, kidneys, arteries) 85 and can diagnose white-coat and masked hypertension when 86 compared with the doctor's BP measurement. 87 Research Question: What is the gap between the new recom-88 mendations and the actual practice of French general practi-89 tioners in the use of home or ambulatory BP measurement? 90 Method: An epidemiological study in the centre region of 91 France. Data will be gathered by trainees in general practice. 92 They will select the patients attending the practice of their 93 internship during a selected period of three or six months. 94 Inclusion criteria will be adult patients with an antihyperten-95 sive treatment and who signed consent. The data collected will 96 be: introduction, monitoring or adaptation of an antihyperten-97 sive treatment, and BP measurements (ambulatory, home or 98 office) preceding and following the prescription. Data not 99 found in the patient's file will be gathered directly from the 100 patient. We will determine the proportion of prescription 101 process, which includes home or ambulatory measurement. 102 Discussion: Should we exclude patients with a treatment intro-103 duced or adapted a long time ago or followed by another gen-104 eral practitioner? Should we extend the study to several 105 regions? Should we systematically compare home or ambula-106 tory BP with office BP? 107 108

Effectiveness of a medication review in elderly nursing home residents

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Background: Elderly nursing home residents are exposed 119 to polypharmacy and inappropriate prescribing, which contrib- 120 ute to morbidity, hospitalization and death. Studies have 121 demonstrated a significant association of STOPP (Screening 122

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Tool of Older Persons potentially inappropriate Prescriptions)
 criteria with avoidable adverse drug events in the elderly that
 cause or contribute to urgent hospitalization. Interventions

with removal of unnecessary drugs in the elderly have shown
the positive impact on hospitalizations and mortality.

Research Question: Can a review of medications using START
and STOPP criteria and drug interactions checker influence the
frequency of potentially inappropriate prescriptions (PIMs),
polypharmacy, mortality and urgent hospitalizations in elderly
nursing home residents?

11 Method: Nursing home residents from several nursing homes 12 will be randomly assigned into two groups (intervention and 13 control). In the intervention group, a review of medications will 14 be performed together with a patient consultation and using 15 the patient's medical chart data. The review will consist of cor-16 recting eventual general errors (doubling, overdosing), using 17 an online drug interaction checker to find possible interactions 18 and a START and STOPP criteria review. Changes will be dis-19 cussed and implemented upon both patient and nursing home 20 physician's agreement. The frequency of PIMs, polypharmacy, 21 hospitalization rate and mortality in both groups will be com-22 pared after six and twelve months. 23 (Expected) Results: We expect to find less potentially inappropri-24 ate medications in the patient's therapy and decreased polyphar-25 macy after one year in the group where the review was performed.

We also hope to find less urgent hospitalizations and lower mor-

27 tality in comparison to the group without medication review.

Discussion: What confounding factors should I account for?
 How to track the unsuccessful changes in medication therapy
 (changes suggested upon revision that are not followed through

31 or are reverted by the patient's physician)?

Management of obstructive respiratory diseases in French primary care: a multicentre qualitative study

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43 Background: Asthma and COPD, respectively concern 6.7% and 44 1% to 11% of the French population. Under diagnosis hinders 45 management of obstructive respiratory conditions in primary 46 care (only 36% of patients with COPD are diagnosed). Guide-47 lines are poorly followed in France (under prescription of 48 inhaled corticosteroids, over prescription of inhaled broncho-49 dilators). Spirometry has been shown to be the optimization of 50 diagnosis and follow-up. 51

Factors of this under diagnosis and misuse of guidelines are
poorly explored. Few data are available on general practitioners'
(GP) opinion about spirometry performed by themselves in the
French healthcare system.

56 **Research Question:** Which barriers and facilitators are per-

57 ceived by the French GPs in their management of obstructive 58 respiratory diseases? What are their representations of the 59 spirometry use by the GP in France?

spirometry use by the GP in France?
 Method: Qualitative multicentre study. Data will be collected

Method: Qualitative multicentre study. Data will be collected
 by using the focus group method. Participants will be chosen

among the GP community by purposeful sampling. Verbatim 62 accounts will be recorded, transcribed and the content analysis 63 will be led by systematic comparison with electronic support. 64 (Expected) Results: The qualitative method chosen does not 65 allow expectation as the results are extracted from the data. 66 The main concepts identified should permit description of 67 facilitators and barriers linked to the condition's specificities, 68 patient's characteristics, practitioner's characteristics and 69 70 healthcare system organization. 71

Discussion: Method choice: modalities of the multicentre data 71 collection and analysis, focus group and/or interviews, sampling. Experience of participants on this topic: open the discussion on factors already identified in other countries. 74

The British and Polish primary care systems in the Polish migrant's opinion

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Background: With the advent of the extended EU community 86 and the Schengen agreement, mobility within the EU has 87 increased. Harmonization, access and equality are key princi-88 ples of EU policy. However, individuals within the EU have their 89 own, potentially differing, views of health and the service they 90 require. We think that this may have perverse consequences, 91 e.g. it is better to ask for a sick note, which would entitle you 92 to be off work due to back pain in UK, where you are more 93 likely to get one, than in the Netherlands, where there is a 94 whole system, which focuses on people with back pain. It is 95 possible to hypothesize then that Polish migrants choose to 96 view the UK healthcare system as more approachable than that 97 in Poland or in other FU countries. 98

Research Question:What do we know about the perception99of the British and Polish primary care systems and the quality100of medical services in these two countries among the Polish101migrants who emigrated to the UK after Poland joining the EU102in 2004.103

Method: An extensive literature search drawing on both qual-
itative and quantitative methods to meet this objective will be
conducted. Although a part of this study will be performed in
Poland, we anticipate that we will need to go to the UK (War-
wick Medical School) to access a more extensive range of data-
bases and grey literature, so that our review is as complete as
possible.104

(Expected) Results: We seek to produce and publish a critical 111 literature review, which will comprehensively describe this 112 area of interest. 113

Discussion: Possible comparison studies with other countries. 114

Dedicated consultation in general practice for caregivers who support demented patients

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Background: The number of patients who informally take care of demented people–called informal caregivers (CG) – is expanding, due to the increase in neurodegenerative diseases such as Alzheimer disease. It is proven that caregivers are suffering from their situation. Caregivers' health is affected by their status, and they consequently require specific management. General practice guidelines recommend a dedicated consultation to take care of their specific situation. A preliminary qualitative study among involved actors assessed an overall interest in such a consultation, yet the consultation needs to be adequately customized to shape caregivers' and general practitioners'(GP) expectations.

 Research Question: To build an adequate course to help GPs to run optimized dedicated caregivers' consultations.
 Machael Sinth Sin

Method: First, investigation will focus on what GPs and CGs
 expect from a dedicated consultation. A qualitative study will
 be conducted, using semi structured interviews among GPs
 and CGs. A guidebook initially built from previous qualitative
 data will be used to explore expectations. It aims to lead to an
 optimized consultation.

Second, a training course for GPs will be developed from the collected data.

Finally, a pilot 'before and after' study will analyze the course, its use and usefulness after the formation, and three months later. All this information will be gathered to finalize the course.

(Expected) Results: Positive impact, satisfaction of GPs and feasibility of the dedicated consultation will be central to analyze the course and its contents. This is the first stage of a study plan to build an intervention study aiming to demonstrate the impact of an intervention of GPs on caregivers' health.

Discussion: Feasibility of the project? What would be the adequate training tool format for the GPs' course? What do you advise for the criteria of the main outcome of this expected interventional study?

Measuring use and utility of the bio-psychosocial approach in family medicine

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Background: An integrated bio-psychosocial (BPS) approach is of great importance. Evidence for science-based policy-making is lacking. The purpose of this study will be to explore the scope of primary health care and assess the prospects for a higher quality of an integrated approach to treatment, in comparison with the biomedical model, which focuses only on the disease, and address the possible consequences of the disease. **Besearch Question:** What impact does the bio-psychosocial

Research Question: What impact does the bio-psychosocial 70 model of health have on quality outcomes. 77

Method: We used the Delphi method and the nominal tech-nique to identify an appropriate set of questions for the measurement of the BPS dimensions in family practice. We will produce a list of separate indicators that will show the biological approach on one hand and the psychosocial approach on the other. These indicators will serve for the comparison of the two models of care (biomedical versus psychosocial). The survey will be done on a representative sample of 220 family practitioners and 2 200 family practice visitors.

(Expected) Results: The expected results of the study will be to describe the bio-psychosocial approach by indicators; specify, which factors affect this approach and its individual dimension; validate a questionnaire for measuring the bio-psychosocial model; see the link between quality of work and the approach taken with the patient, holistic treatment and participation between doctor and the patient.

Discussion: What is the main issue in being more psychosocially centered in comparison to the biomedical approach? Do you think that the patient centered, holistic approach and health as well-being are all included (or can be included) in the bio-psychosocial model?