Мониторинг здоровья пациентов на дому, как компонент реализации Концепции информатизации здравоохранения России

Медведев ОС, Яцковский МЮ, Баландин С.

МГУ им. Ломоносова, ООО «МедСофт», Кооперация «FRUCT»

Москва, 2011 г.

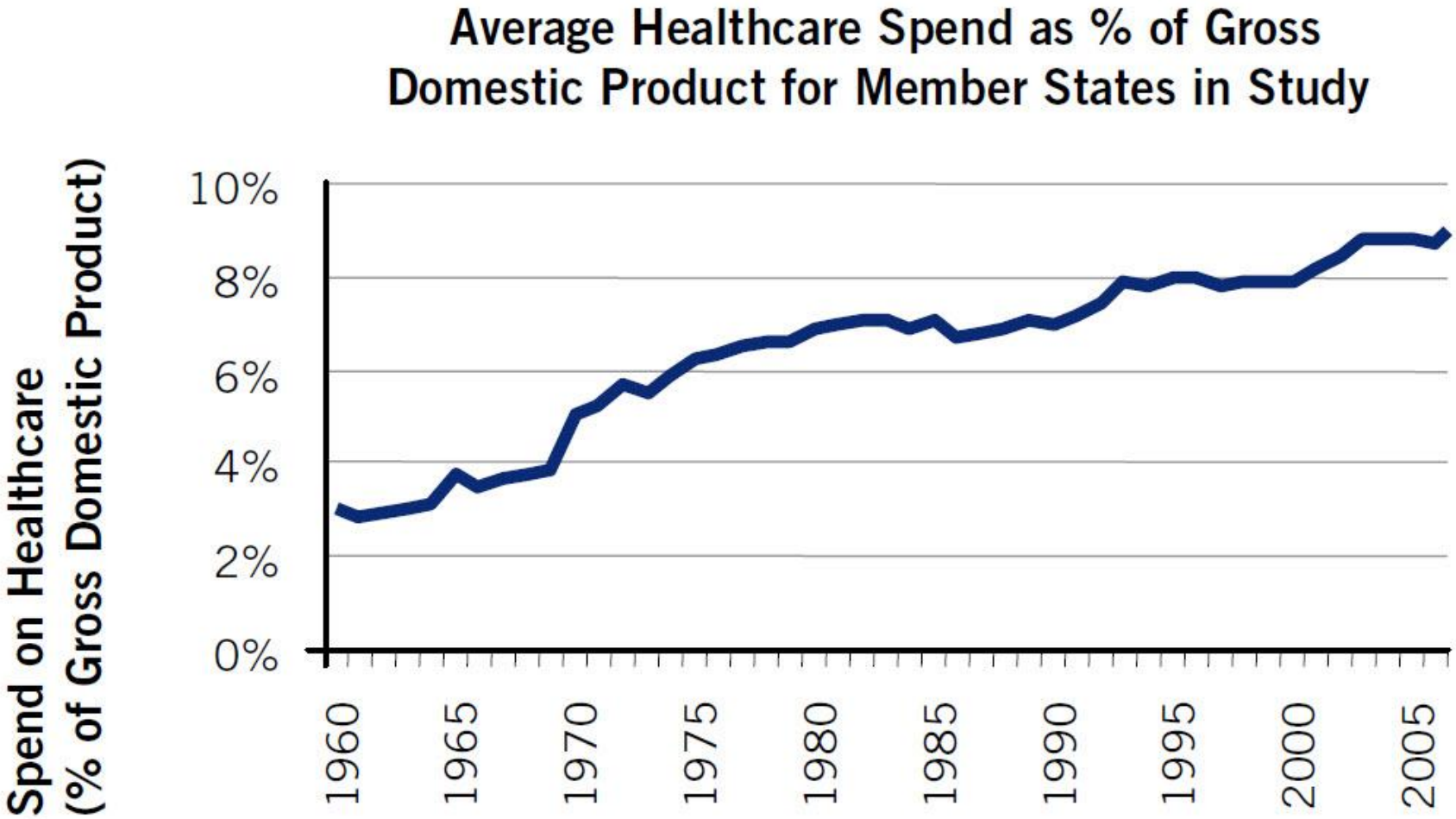
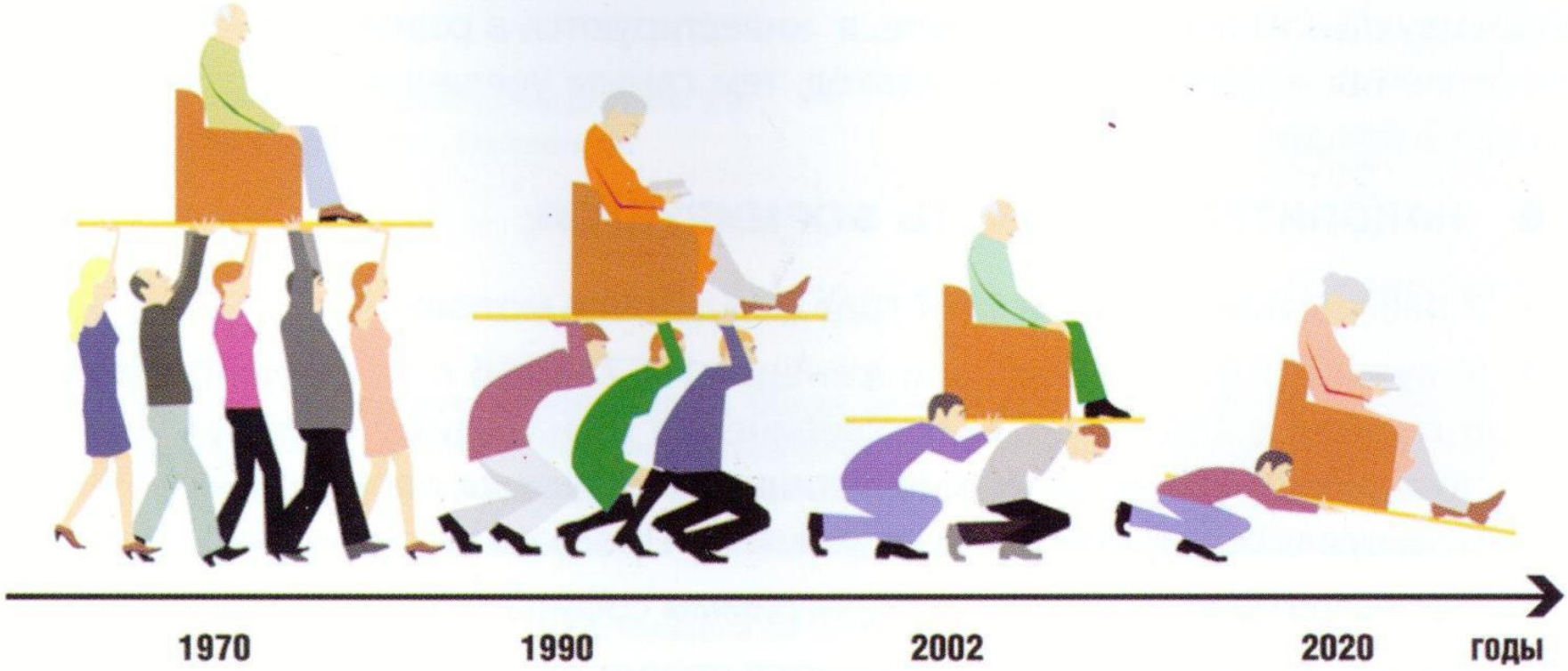


Figure 1. Healthcare Spend for Member States in Study

Проблемы, стоящие перед здравоохранением

1. ПОСТАРЕНИЕ НАСЕЛЕНИЯ - УВЕЛИЧЕНИЕ ЧАСТОТЫ ХРОНИЧЕСКИХ ЗАБОЛЕВАНИЙ
2. РАСТЕТ ЧИСЛО ОСЛОЖНЕНИЙ, СВЯЗАННЫХ С ПРИЕМОМ БОЛЬШОГО КОЛИЧЕСТВА ПРЕПАРАТОВ
3. ВОЗРАСТАЕТ МОБИЛЬНОСТЬ НАСЕЛЕНИЯ

Соотношение трудоспособного населения и пенсионеров



Именно поэтому в 2002 году в нашей стране стартовала пенсионная реформа,

Health and Social Care Costs

NHS
Connecting for Health

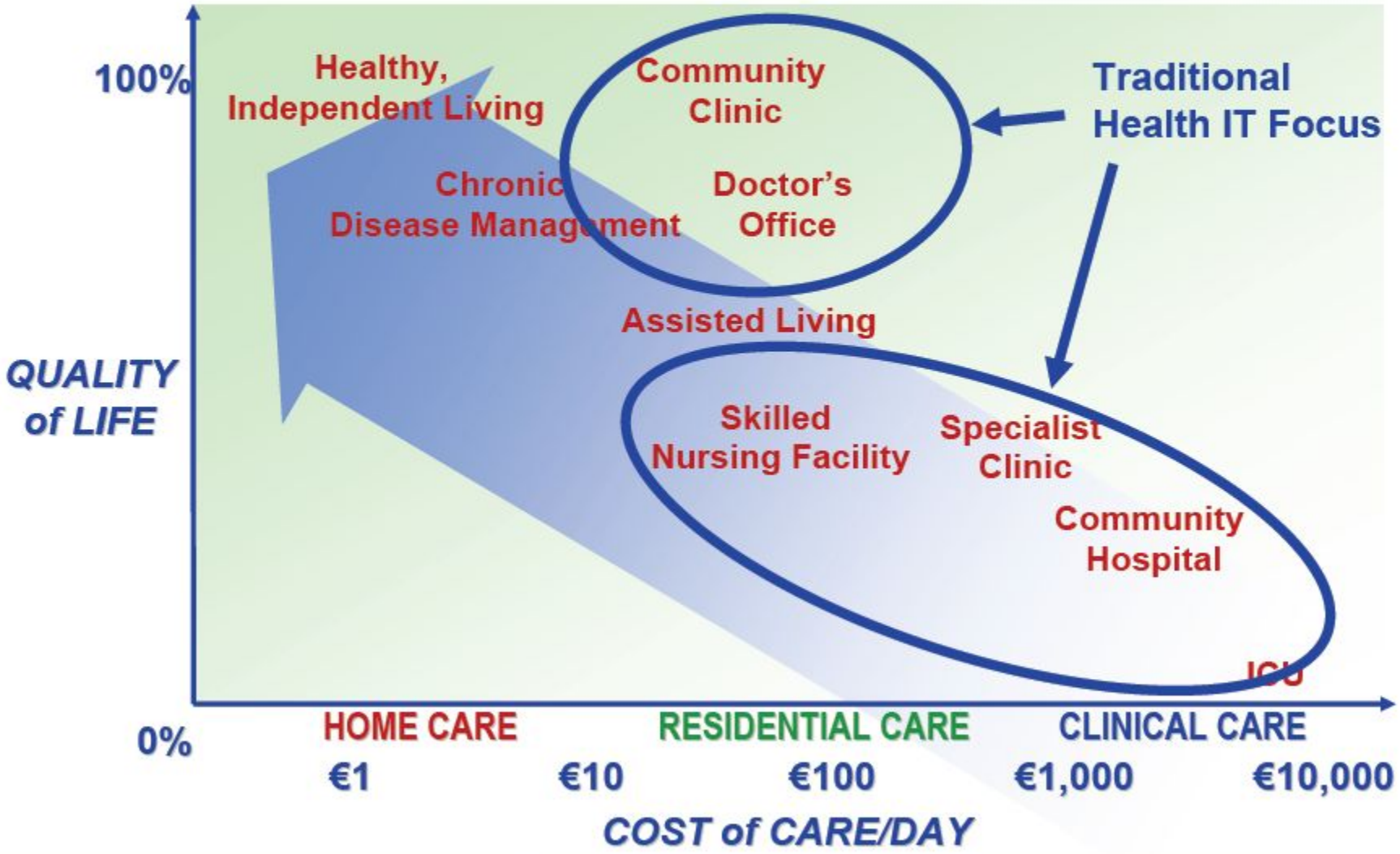


Figure 3. Adoption of mHealth initiatives and phases, globally

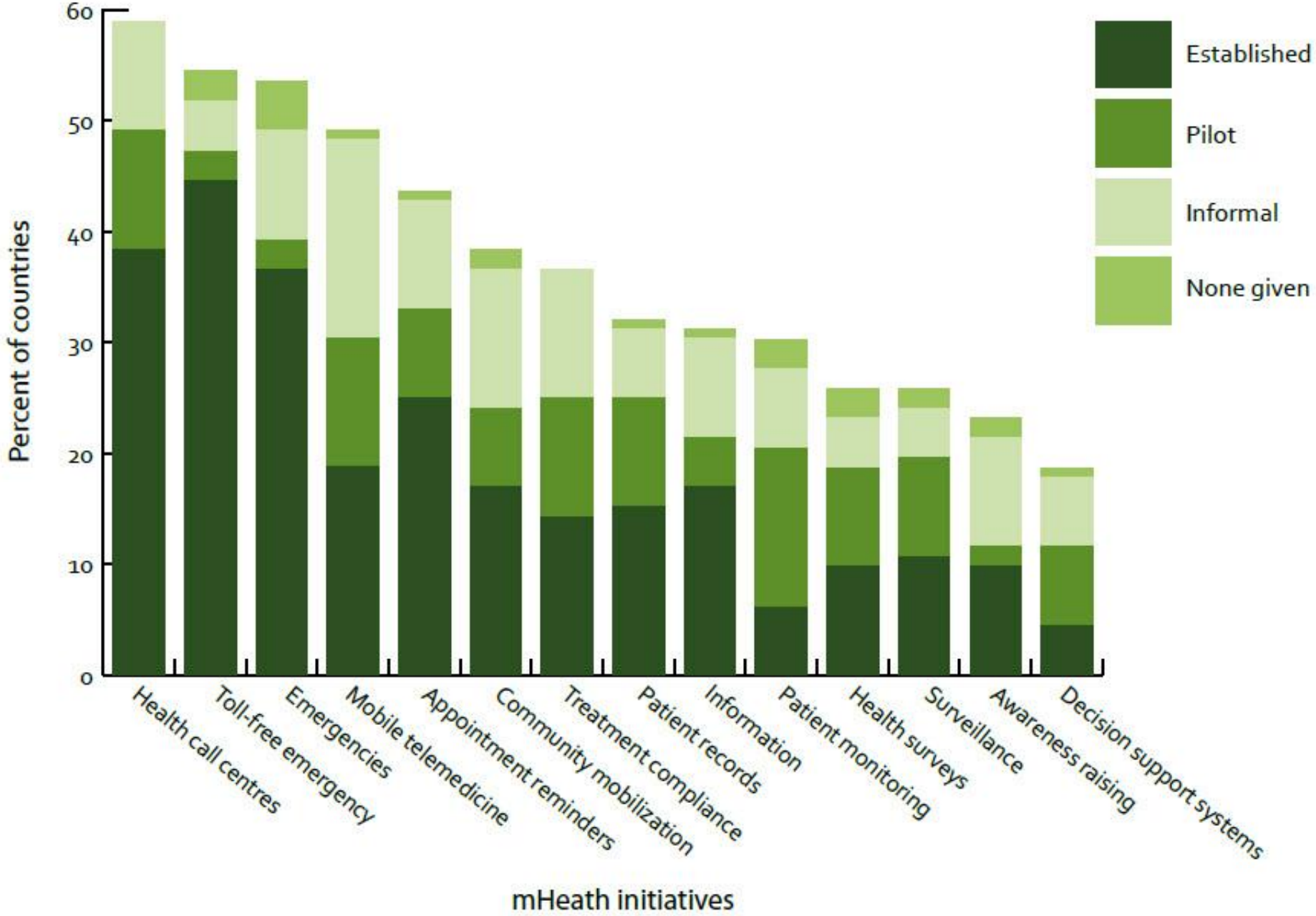
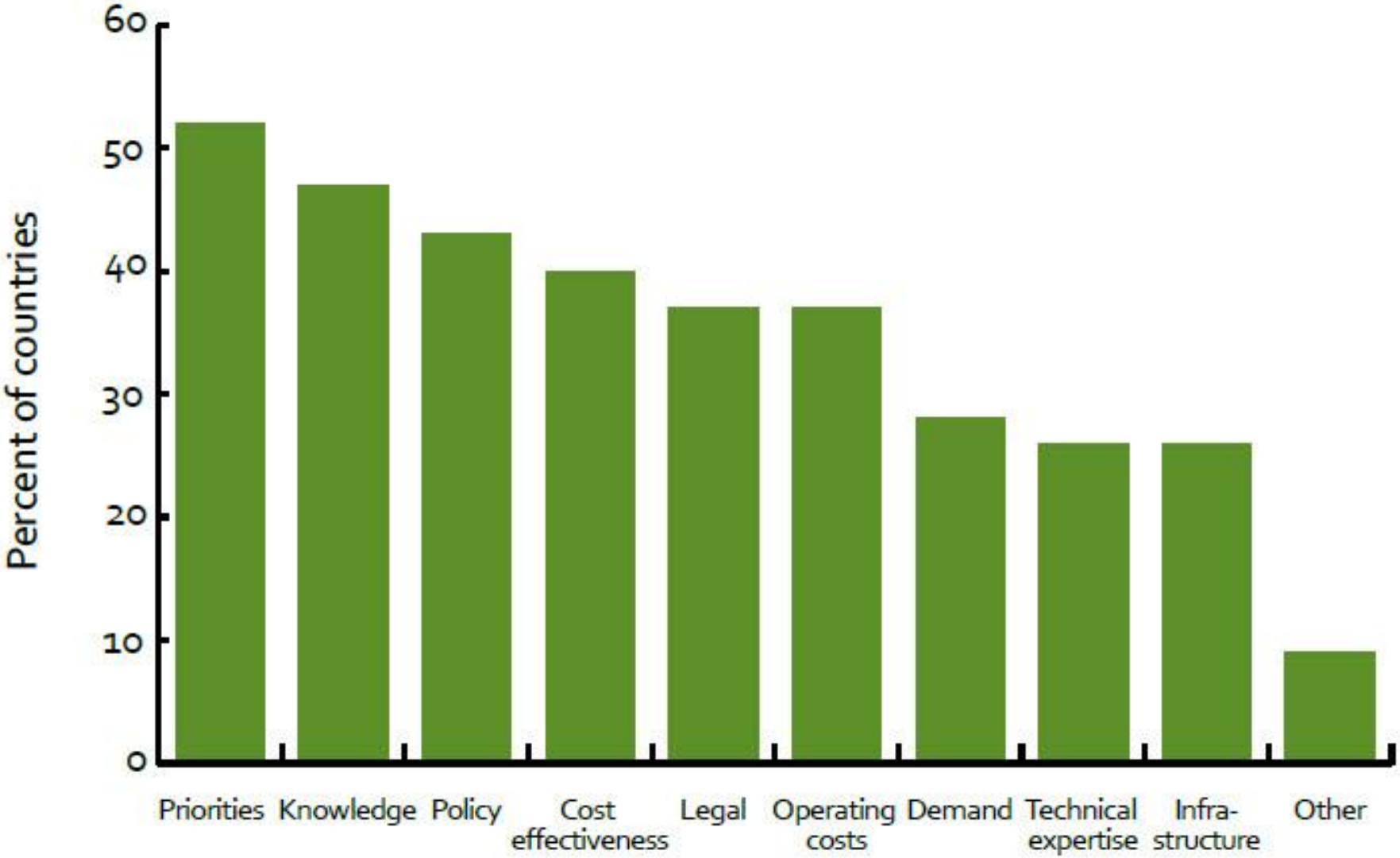


Figure 9. Barriers to mHealth implementation, globally



Экономические выгоды удаленного мониторирования пациентов на дому

Heart Failure Care Comparison:
RPM vs. Standard Care and Disease Management, Per Patient Per Year

	Management Cost	Average Readmissions	Cost of Readmissions‡‡	Gross Savings v. RPM	Net Savings v. RPM
RPM	$2,052 - Technology* $2,082 - Technology & DM†	0.552§	$5,632		
Disease Management	$750‡	1.116**	$11,387	$5,755	$3,703
Standard Care	0	1.320††	$13,468	$7,836	$5,034

New England Healthcare Institute, 2009
Remote Physiological Monitoring

World Bank mHealth Summit

(October 2009)

The World Bank

Home • Site Map • Index • FAQs • Contact Us

About | Countries | Data & Research | Learning | News | Projects & Operations | Publications | Topics

eDev eDevelopment

Search e-Development GO

Home > Topics > Information & Commun... > e-Development > m-Health: From Policy to Implementation

Email Print

- e-Dev Home
- Overview
- Our Events
- Webcast
- Special Coverage
- List of Speakers
- Related Links

Other Resources

- Contact Us
- Subscribe for updates
- Disclaimer

m-Health: From Policy to Implementation

The World Bank Day @ mHealth Summit

http://go.worldbank.org/MP5IY2CJA0

Photo credit: Text to Change

October 28th, 9:00 a.m. - 5:30 p.m. Washington DC time
Venue: 2121 Pennsylvania Ave., IFC Auditorium

Call For Presentations - 2010 mHealth Summit Inbox | X

The Foundation for the National Institutes of Health to me show details 22 May (2 days ago)

mHealthSummit

A Public-Private Partnership of the Foundation for the National Institutes of Health

November 8-10, 2010 • WASHINGTON, DC

Walter E. Washington Convention Center

Call For Presentations Now Open!

Abstract Submission Deadline: July 1, 2010 - 11:59 PM EST

The 2010 mHealth Summit will bring together leaders enabling cutting-edge research, evidenced based practice and innovative policy solutions to advance the benefits mobile technology can bring to the health and wellbeing of developed and developing world populations.

We are seeking abstracts for Presentations from the Public and Private Sectors that highlight ground-breaking health research, information and communication technologies, systems architecture and global partnerships that leverage mobile technology to improve global health outcomes.

Additionally, we are seeking Research Technology Demonstrations. Relevant technologies include: Mobile Phones, Smart Phones, Mobile Phone Apps, Global Positioning Systems (GPS), Personal Digital Assistants (PDAs), Mobile Electronic Sensors (e.g., Accelerometers), Portable Physiological Sensors (e.g., Ambulatory Glucose Monitors), Mobile Environmental Sensors, Integrated Mobile Devices, and other Wireless Technologies.

СОСТАВ РЕГИОНАЛЬНОГО ФРАГМЕНТА ЕДИНОЙ ИНФОРМАЦИОННОЙ СИСТЕМЫ В СФЕРЕ ЗДРАВООХРАНЕНИЯ, А ТАКЖЕ ФУНКЦИОНАЛЬНЫЕ ТРЕБОВАНИЯ К ЕГО КОМПОНЕНТАМ, ОБЯЗАТЕЛЬНЫМ ДЛЯ СОЗДАНИЯ В 2011 – 2012 ГОДАХ В РАМКАХ РЕАЛИЗАЦИИ РЕГИОНАЛЬНЫХ ПРОГРАММ МОДЕРНИЗАЦИИ ЗДРАВООХРАНЕНИЯ

7.4. Системы удаленного мониторинга состояния здоровья отдельных категорий пациентов;

Приказ №364 от 28 апреля 2011 г.

Монитор АД фирмы AND

Alive Technologies

Mobile Cardiac Monitoring

Bluetooth® ECG and Activity Monitor

Applications

- Cardiac Rehab
- Cardiovascular Screening
- Home Monitoring
- Disease Management
- Atrial Fibrillation Screening
- Mobile Telemedicine
- Activity Monitoring
- Falls Monitoring
- Fitness Monitoring
- Sports Training

Глюкометр с BlueTooth (Германия)

Nonin Onyx 2 9560 Bluetooth Wireless Finger Pulse Oximeter with FREE case!!

WORKS WITH Microsoft® HealthVault™

NONIN

NONIN PureSAT™ | SpO2

9560 Onyx II

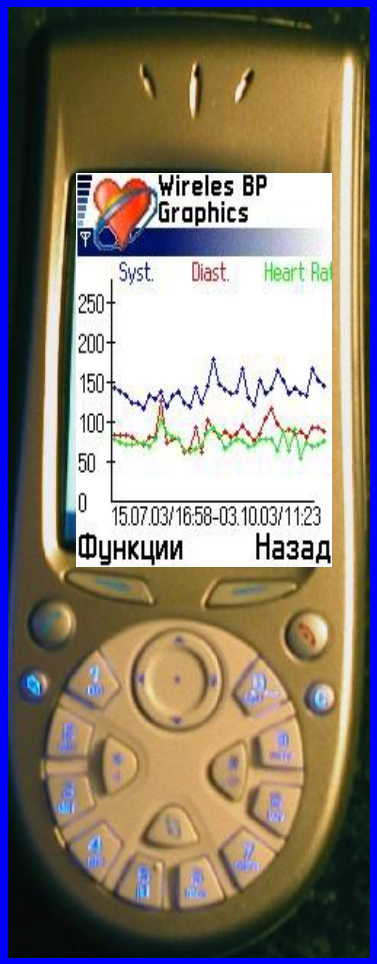
The first wireless fingertip pulse oximeter

Oximetry Unplugged – Revolutionizing Disease Management With the increased need for remote disease management, there is an opportunity to provide oximetry monitoring solutions to simplify the exchange of secure information.

Беспроводная система мониторинга АД

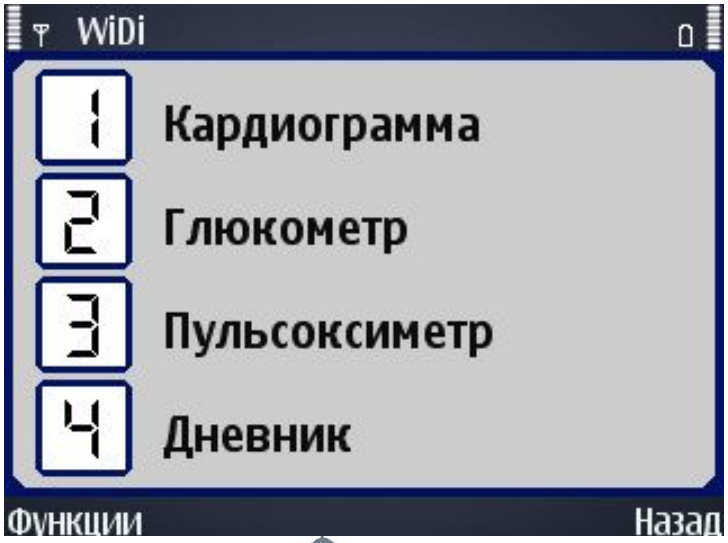
Текстовые и голосовые напоминания

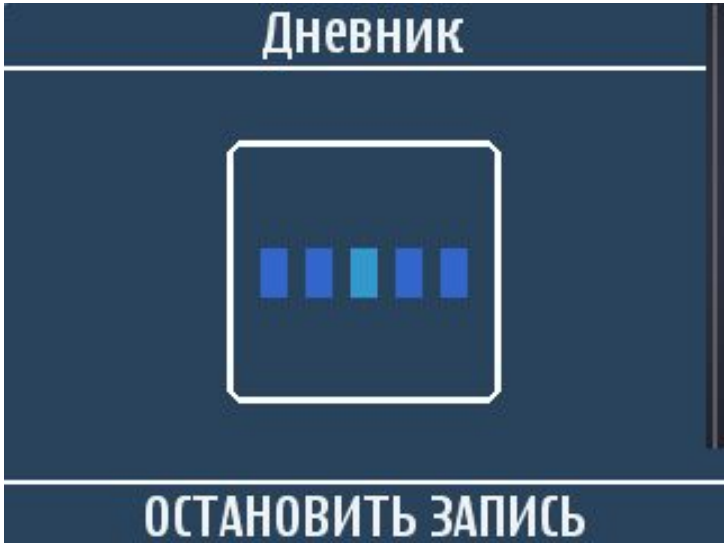
Напоминания о приеме лекарств (с подтверждением о выполнении)



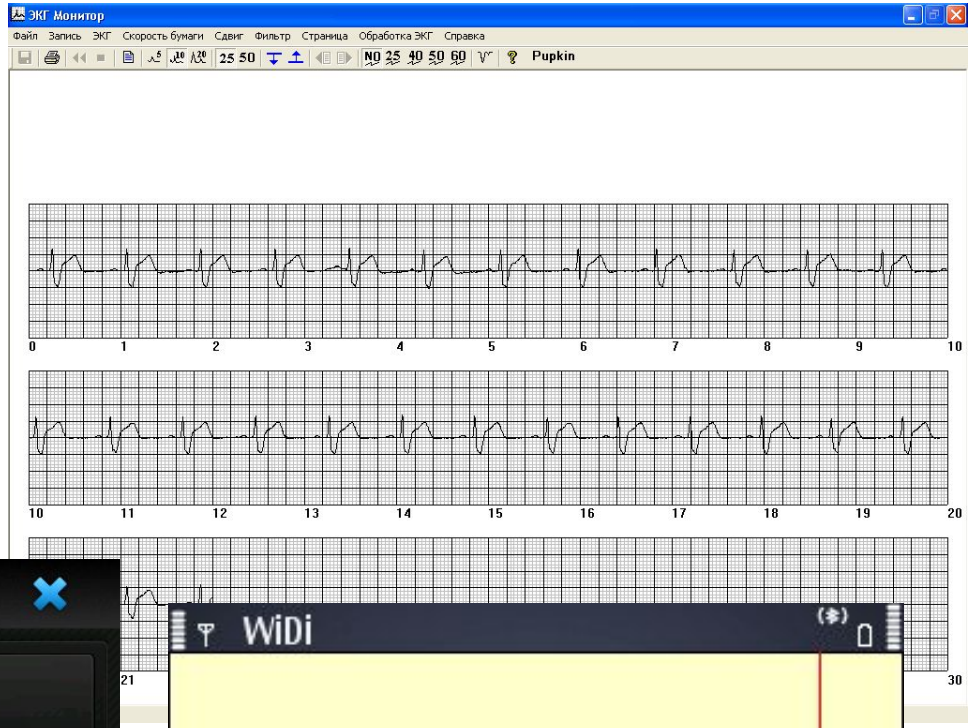
Динамика изменения мониторируемого параметра во времени

Основные сервисы пациента. Мониторинг артериального давления.

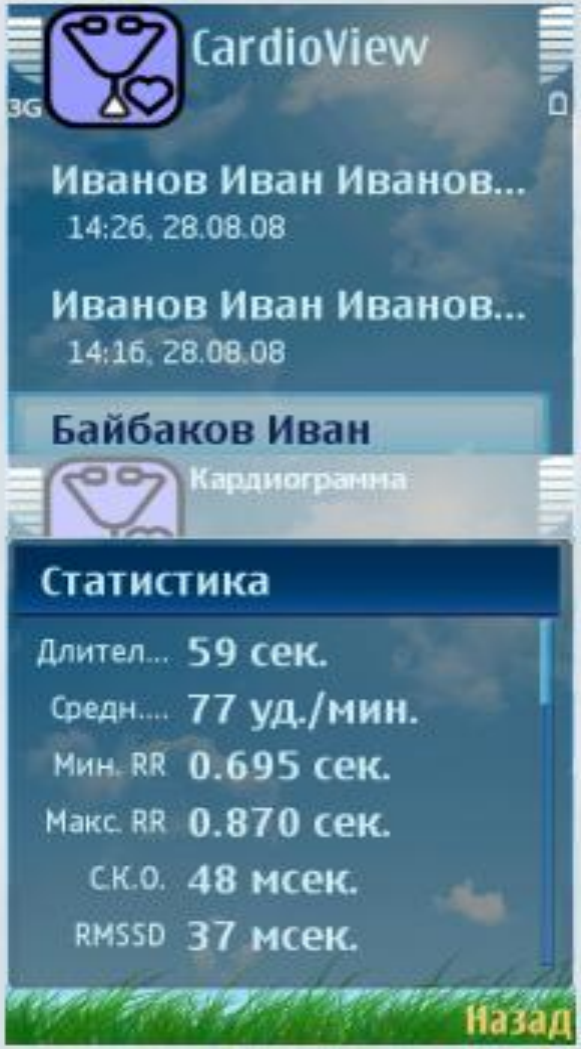




Мониторирование ЭКГ, двигательной активности



Analysis of ECG on a Smartphone



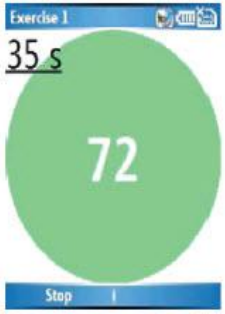
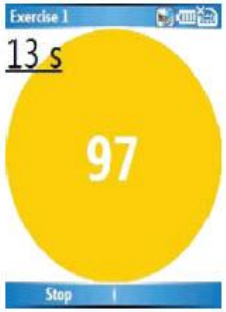
International Journal of Telemedicine and Applications
Volume 2008, Article ID 753064, 5 pages
doi:10.1155/2008/753064

Research Article

Use of a Smartphone for Improved Self-Management of Pulmonary Rehabilitation

A. Marshall,[1] O. Medvedev,[2] and A. Antonov[2]

[1] *School of Computing, University of Leeds, Leeds LS2 9JT, UK*
[2] *Faculty of Basic Medicine, Lomonosov Moscow State University,*

Status	Screen shot	Other details
– Normal physiological conditions – Heart rate within acceptable range specified by clinical professional		– Heart rate shown – Time remaining in seconds shown – Green background
– Normal physiological conditions, but near acceptable limits – Heart rate higher or lower than normal, but still within acceptable range		– Heart rate shown – Time remaining in seconds shown – Amber background
– Dangerous physiological conditions – Heart rate excessively high or low – Exercise should cease now		– LOUD AUDIBLE WARNING SIGNAL – Heart rate shown – Red background – STOP displayed – Display freezes and remains in this state until the Stop button is pressed

Общая схема решения

Проф. Олег Медведев

+7-903-745-6208

medvedev.oleg900@gmail.com
Skype ID: omedvedev