

CIOsummit
HIMSS Europe
6-7 OCTOBER, 2014 | ROME, ITALY

DR. HADAS LEWY

INTEGRATED CARE SERVICE AND OUTCOMES

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Maccabi Healthcare Services

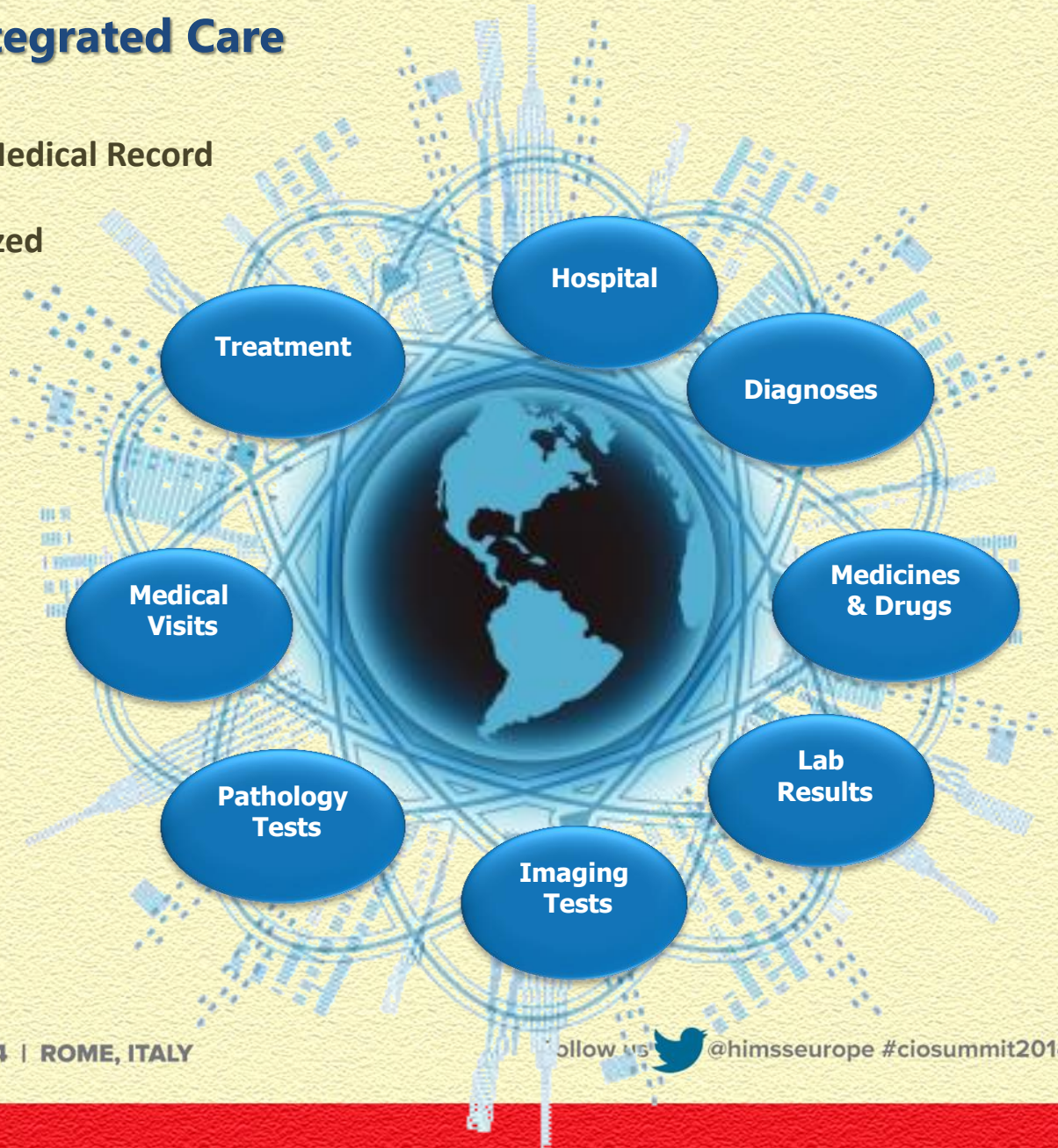
- Second largest and fastest growing HMO in Israel (25% of Market)
- Non-profit mutual
- Recognized health fund - Israeli National Health Insurance Law
- Provides public basket of services
- Offers voluntary supplementary insurance
- Supplies services via own facilities and outside providers



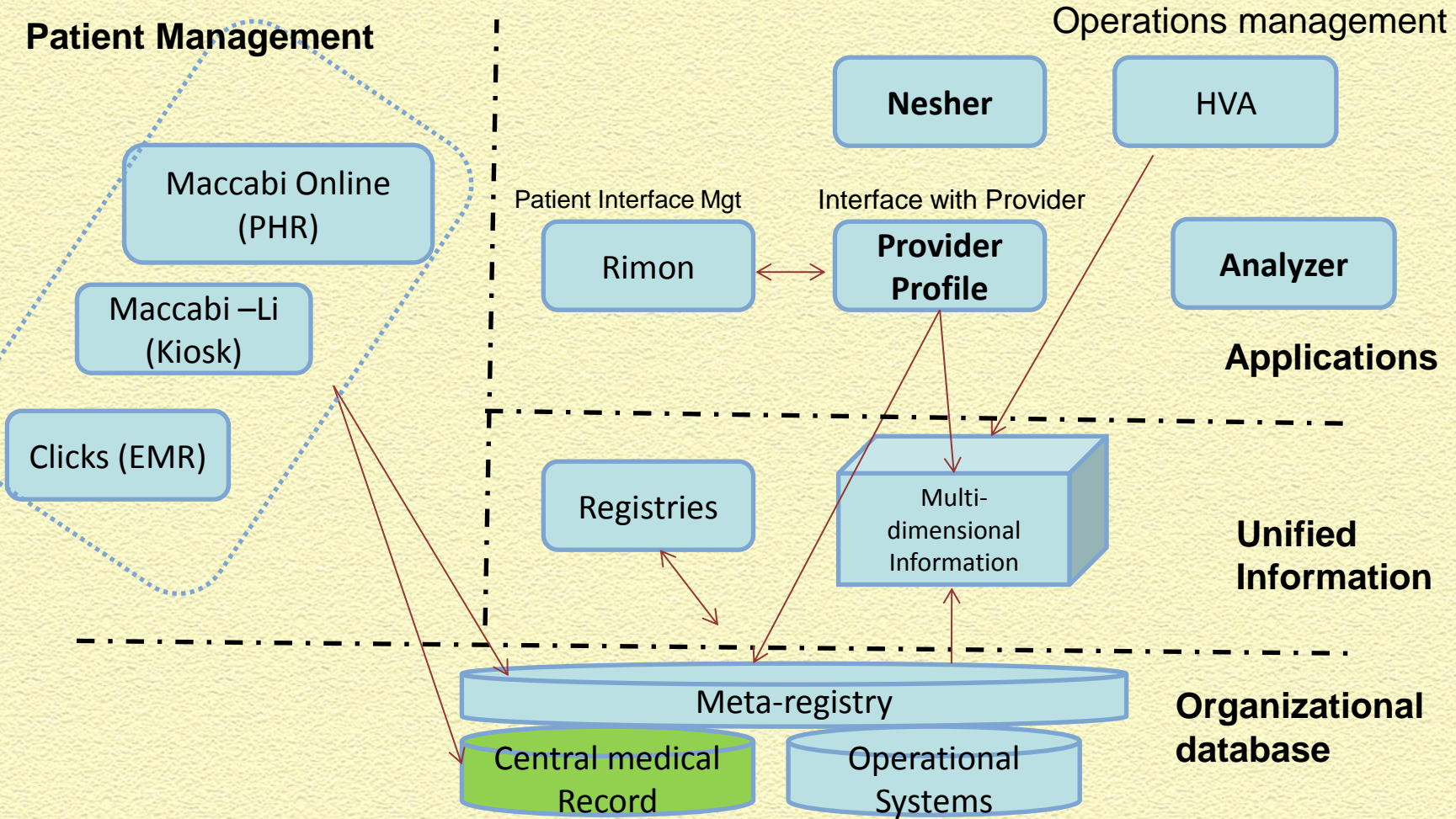
Our Office

Maccabi's Computerized Information and Communication System Supports Integrated Care

- Maccabi Central Electronic Medical Record
- Every transaction computerized
- E-Laboratory
- E- Prescription
- E- Consultation
- Telemedicine
- Alerts and Reminders
- Registries
- Patient Website (PHR)
- Mobile Phone Applications



IT Platforms



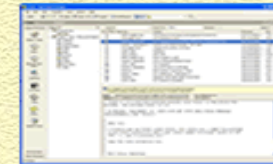
Healthcare Provider Visit
and
Provider Based EHR



Wearable
Media



eMails



**Maccabi
Online**



Videoconference
with
Therapist



Internet
Pages

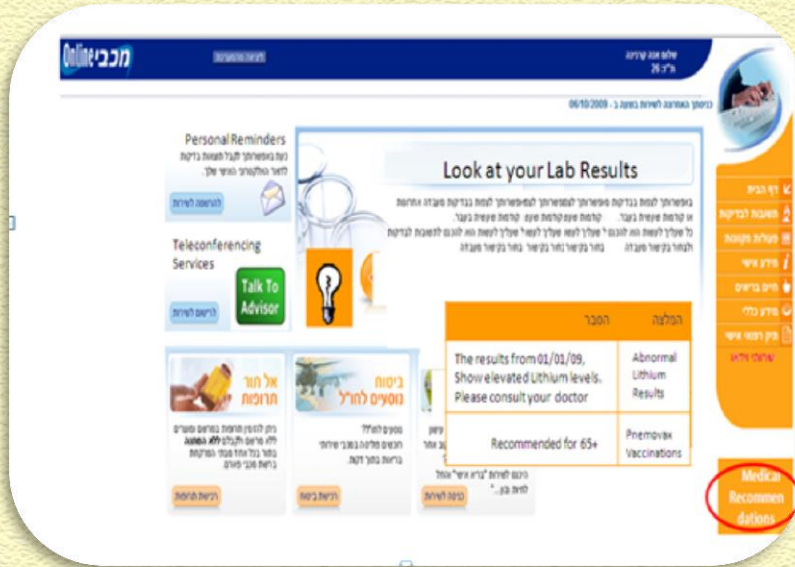
Personal
Daily Monitoring
Data



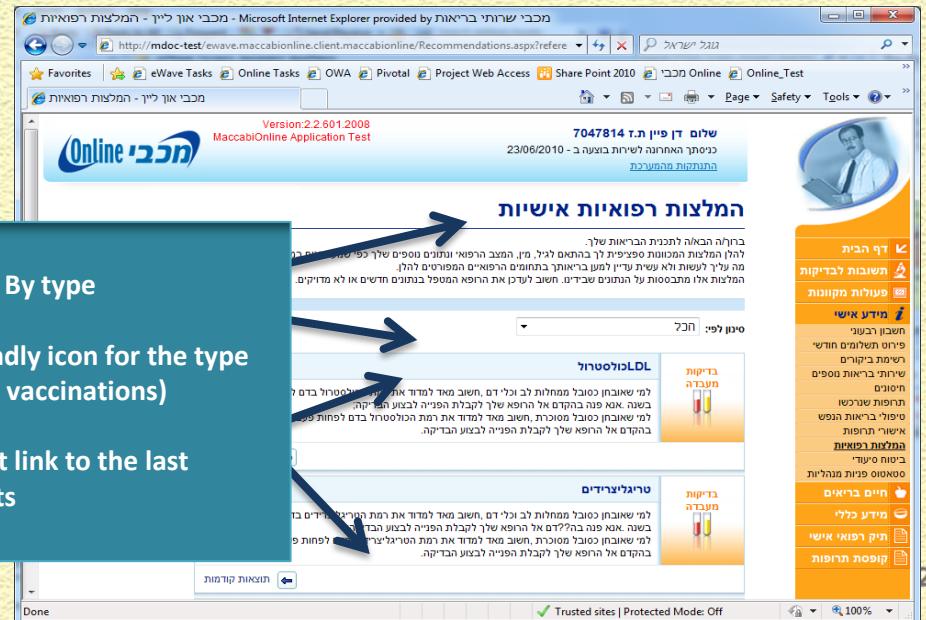
Therapy-specific
Modules, e.g:
Speech therapy
using Cosmobot



Clinical Support Alerts and reminders for patients and Doctors



Personal Medical recommendations



- Filter By type
- Friendly icon for the type (labs, vaccinations)
- Direct link to the last results

Physical Fitness

Smoking
monitor



Steps
Monitor



Blood
Pressure
Monitor



Weight
Monitor



Tips for reducing Blood Pressure



Enter Information:



20/04/2010

Date:

Systolic / BP:

Diastolic/ BP:

שמור נתונים



דף הבית

תשובות לבדיקות

פעולות מקוונות

מידע אישי

חיים בריאים

מידע כללי

תיק רפואי אישי

Tips for reducing blood pressure

Diet enriched by vegetables and fruits reduce BP and improve health

Although reduction of salt in take is an accepted recommendation, it only helps 1/3 of people with high BP

ההמלצה היא אכול מזונות בריאים העשירים באשלגן. קבוצות המזון המכילות את הרמות הגבוהות ביותר של אשלגן הן הירקות והפירות, ובעיקר עגבניות, תפוחי אדמה בקליפתם, אספרגוס, גזרים, אגסים, בננות ותפוזים.

Physical exercise results in reduced BP all day

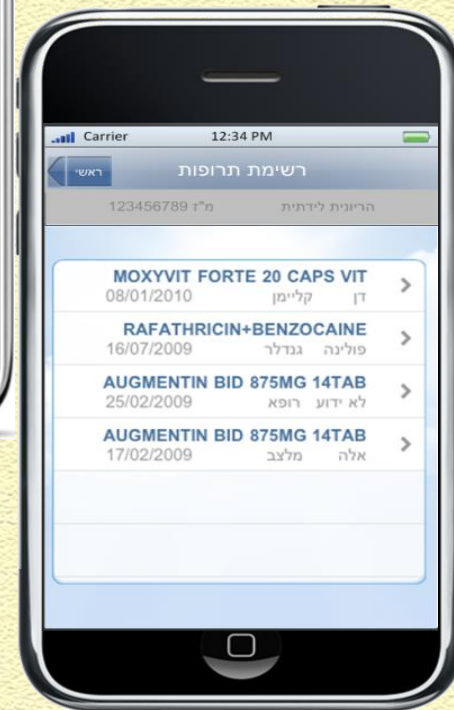
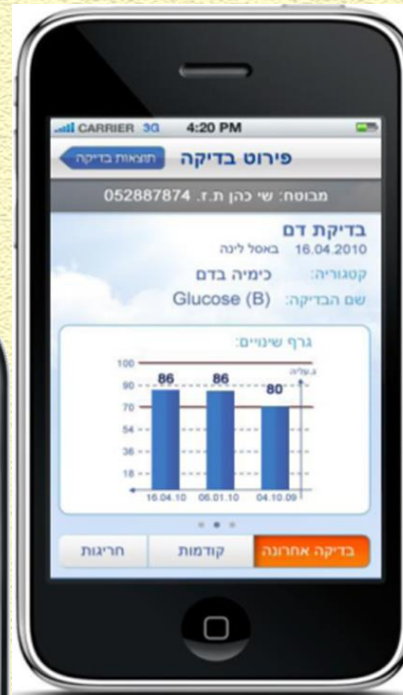
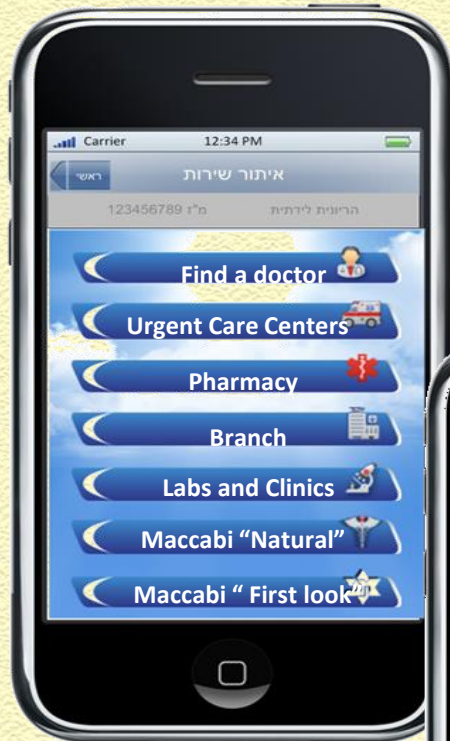
Research shows that people with low Magnesium in their diet suffer more from high BP

אצל רבים הרגילים לצרוך הרבה קפאין ביום נראה כי ההרגל מעלה באופן מתון וקבוע את ערכי לחץ הדם, ועשוי גם לפגוע באיכות השינה, רמת האנרגיה במהלך היום ועוד. יחד עם זאת, צריכה של 2-3 כוסות עם קפאין

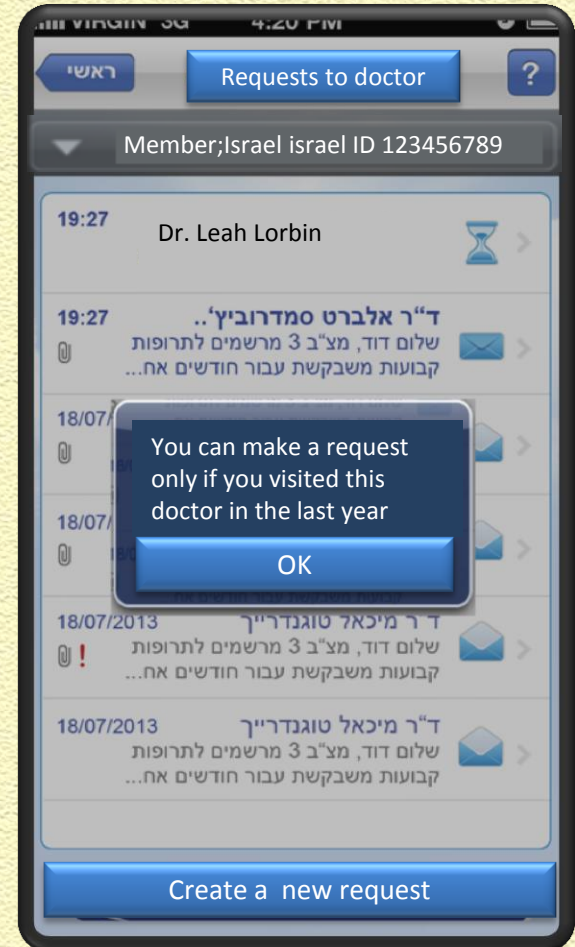
צפיה בגרף תוצאות

מחיקה	Diastolic	Systolic	Date Measured
	70	120	19/03/2009
	60	100	18/03/2009
	134	187	16/03/2009
	70	120	22/12/2008
	111	222	21/12/2008
	80	120	15/09/2008
	70	120	13/09/2008
	80	130	09/09/2008

Services and Lab results over time



Diabetic Profile- Disease management



Mobile Physician Portal




OUTCOMES

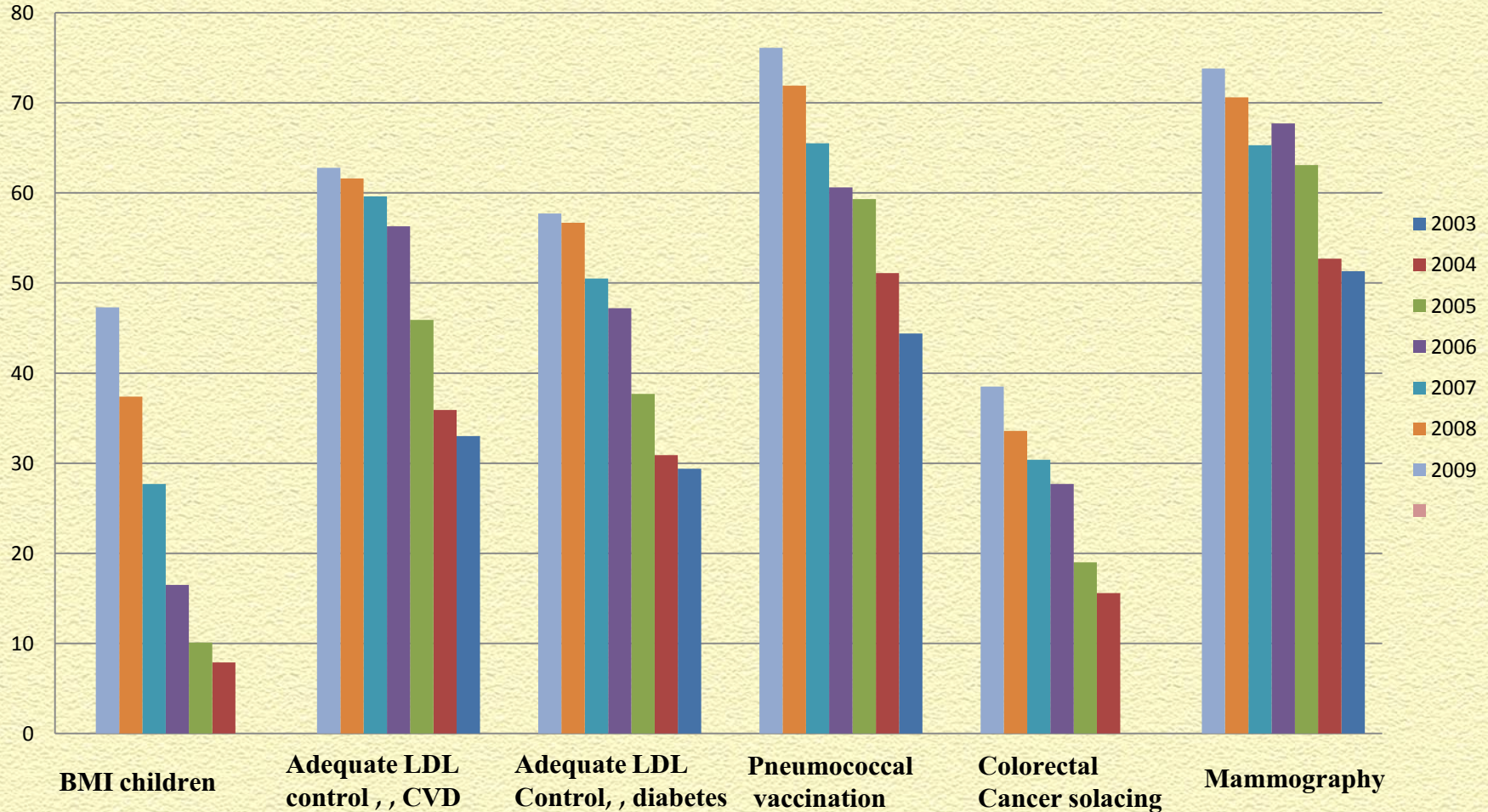
- Improved Efficiency and Quality of Care
- Improved Clinical Outcomes
 - Better medical practice (DSS and alerts)
 - Improved Patient Compliance
- Increased Patient Satisfaction

Improved clinical outcomes

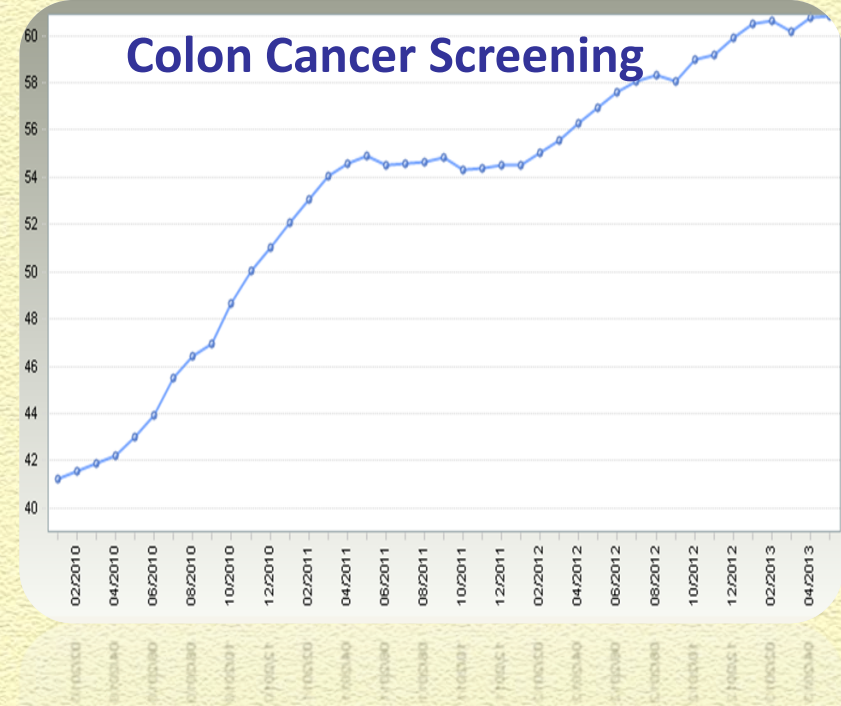
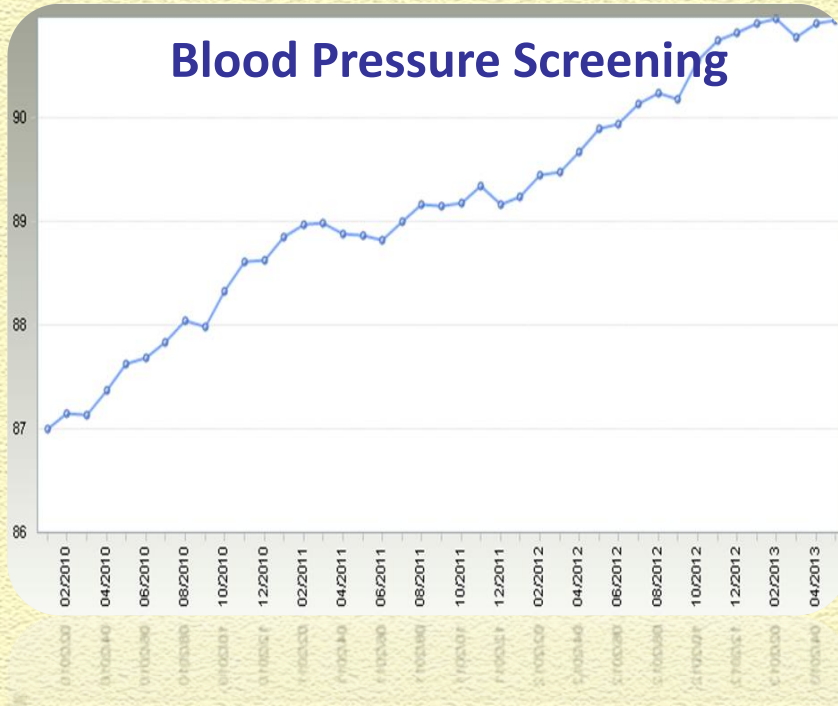
	2005 %	2013 %
Elderly Vaccination Flu	52	68
Urine Protein Screening Diabetics	65	88
Target Cholesterol in Cardiac Patients	53	67
Good Control of Hypertension in Diabetics	52	73



Trends over time in performance measures MHS, 2003-2009



Trends over time in Screening levels 2003-2009



MOMA- Multidisciplinary Center



- MOMA is a multidisciplinary Center for treatment of various chronic diseases
- The Multidisciplinary center is operated by trained nurses providing professional and personal treatment for the patient and their family
- Integration of nurses in coordinating the treatment of multidisciplinary teams and specialists with the primary physician in treating chronic patients in the following conditions:
 - CHF
 - COPD
 - Diabetes
 - Home care
 - Hard healing wounds
 - Stoma.

Goals



Organisation level

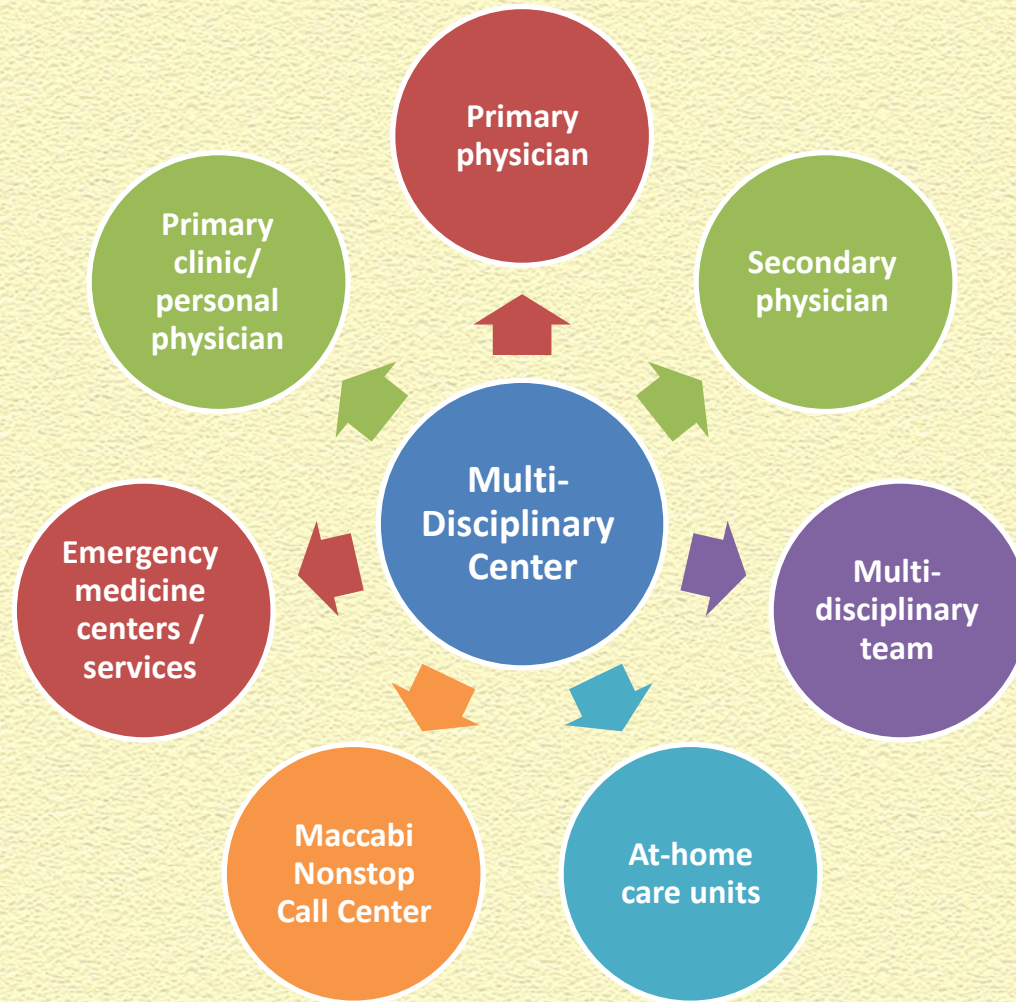
- To provide support network to assist primary physicians
- To coordinate and integrate care with community-based services
- To reduce the demand for healthcare services (hospitals, referrals to the ER and other emergency services)



Client level

- To monitor and provide care for diverse client groups with chronic conditions
- To preserve/enhance clients' physical and mental quality of life, performance scores, compliance rates, and satisfaction
- To empower clients and caregivers that support the care process

Integration with the Team in the Field



The uniqueness

Team Work

Multi-disciplinary
Team
Updating primary
physician

Coordinating Care

Medical Records
Clarity
Care
Continuum

Advanced Technologies

Computerized
Protocols
Tablets
Smart monitoring
devices

Proactive approach, accessibility & availability

24/7
Personal nurse
Proactive calls
Entire Country

TABLET as a Clinical Tool

Virtual House Call for Specialist Consultation



Monitoring:

Blood Pressure, Heart Rate
Oxygen Saturation, Resp. Rate
Psycho-Motor Mobility
Gait Pattern, Range of Movement
Timed Up & Go



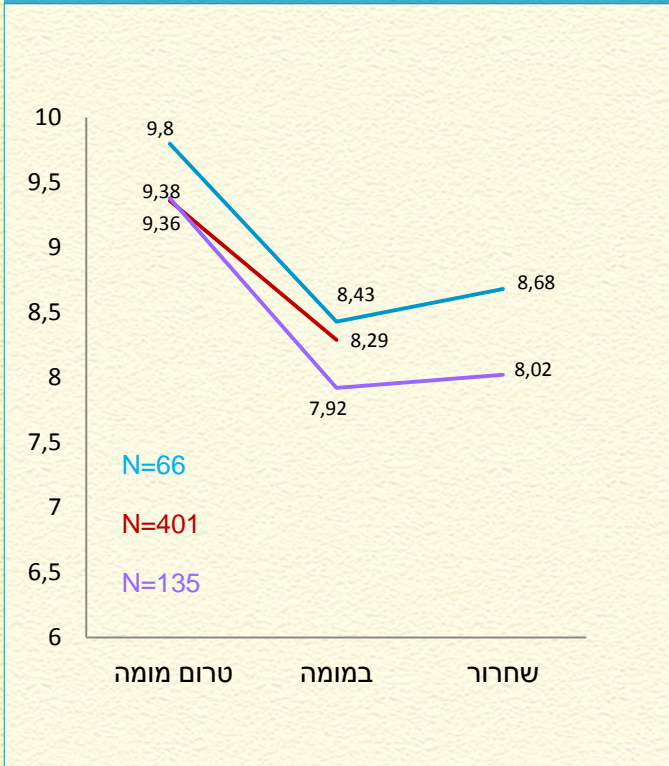
Evaluation:

Clinical Evaluation
Polypharmacy
PAIN (VAS)
MOOD (PHQ9)
COGNITION (MMSE, MOCA)

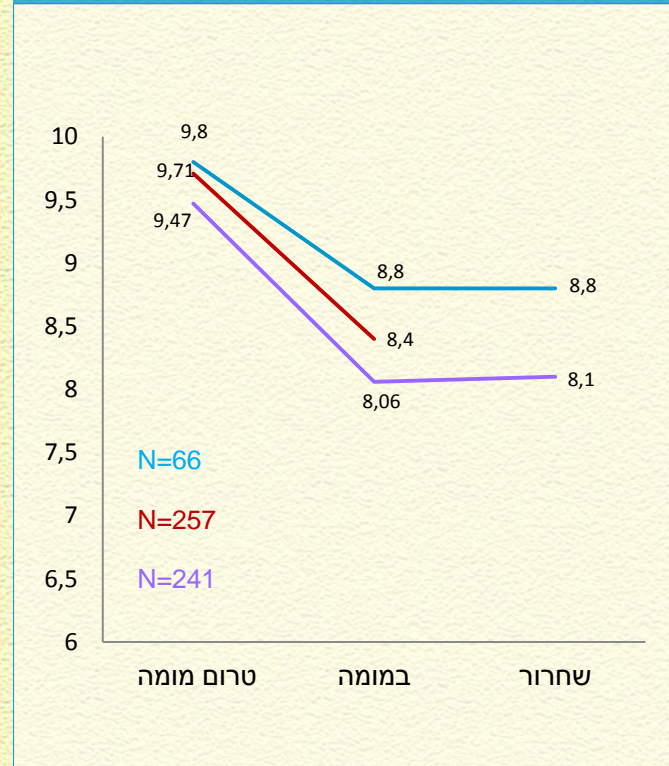


Controlling Hba1c- two different cohorts

February 2013



August 2013

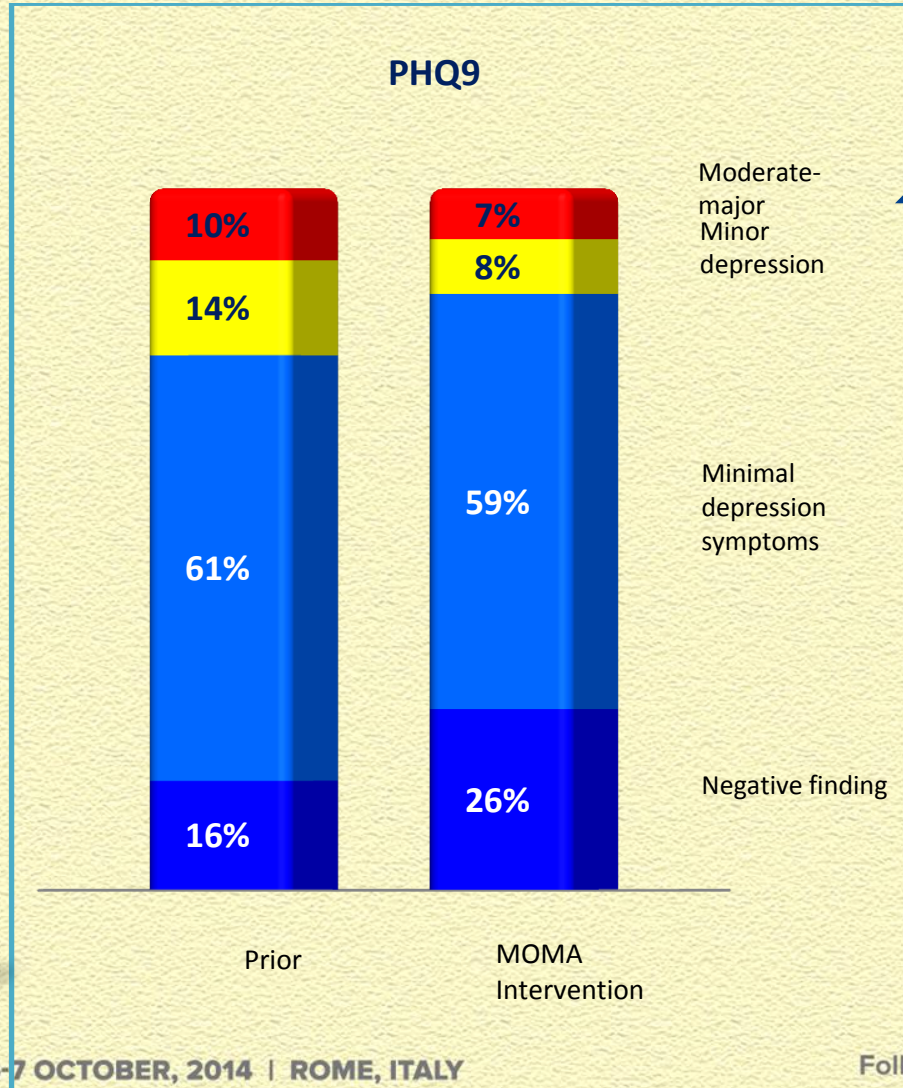


— member
 — Reached Treatment Target
 — Other

Quality Care

Infrastructure

Mental Health



Physical and Mental Health - SF-12

Quality Service

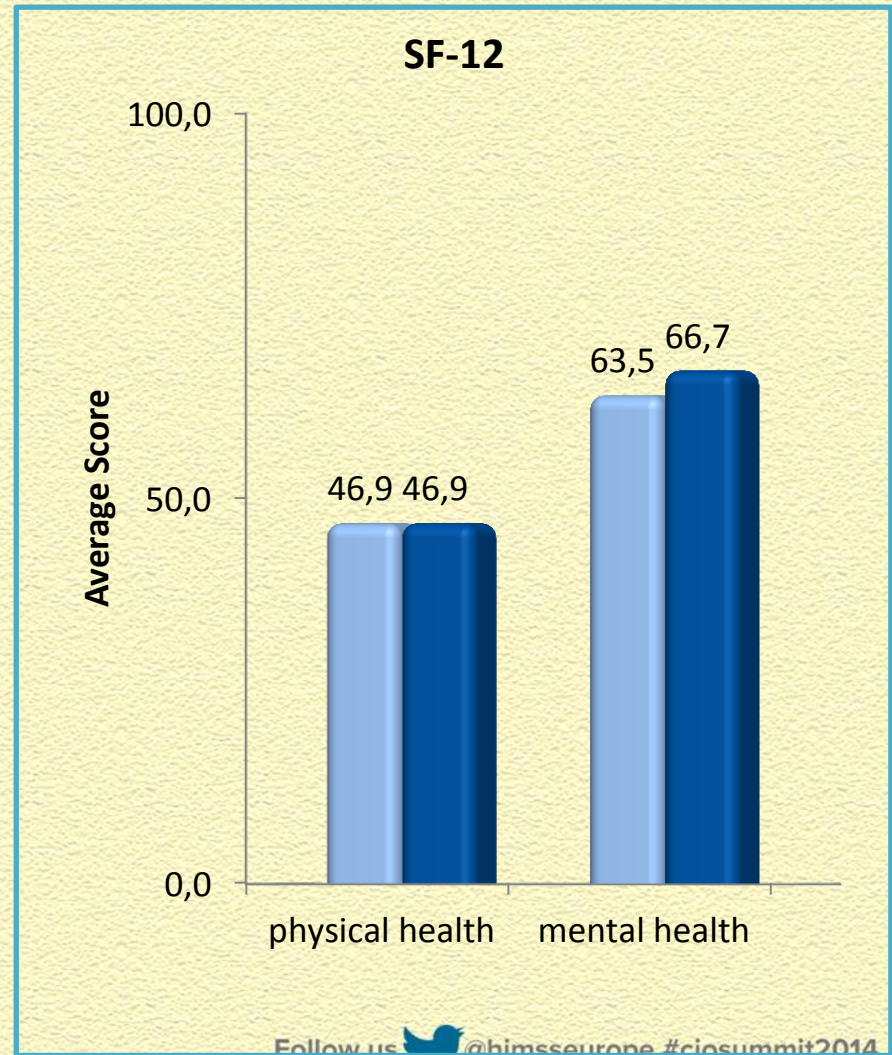
Quality Care

Infrastructure

Significant Improvement in Mental Health

No change in Physical Health

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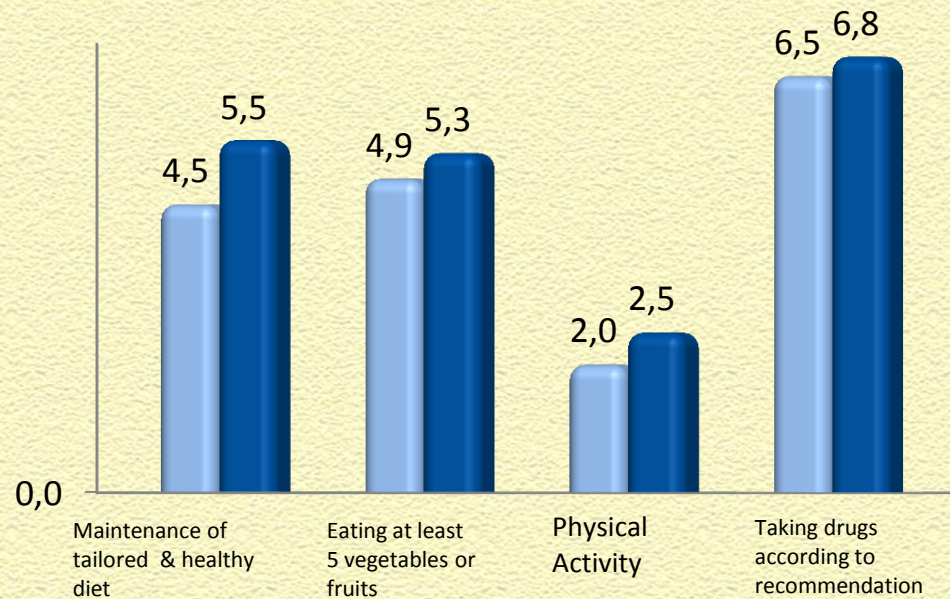


Life style



Significant improvement in all aspects of patients' self care activities

Average num days per week



Smoking Cessation



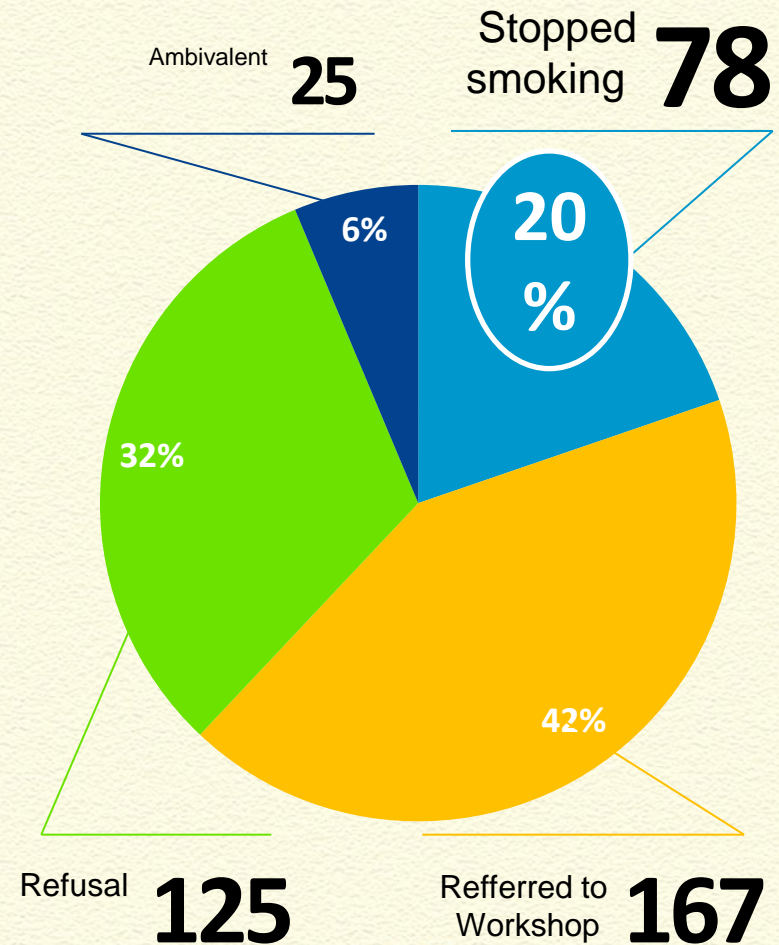
Quality Care

Infrastructure

CIOsummit

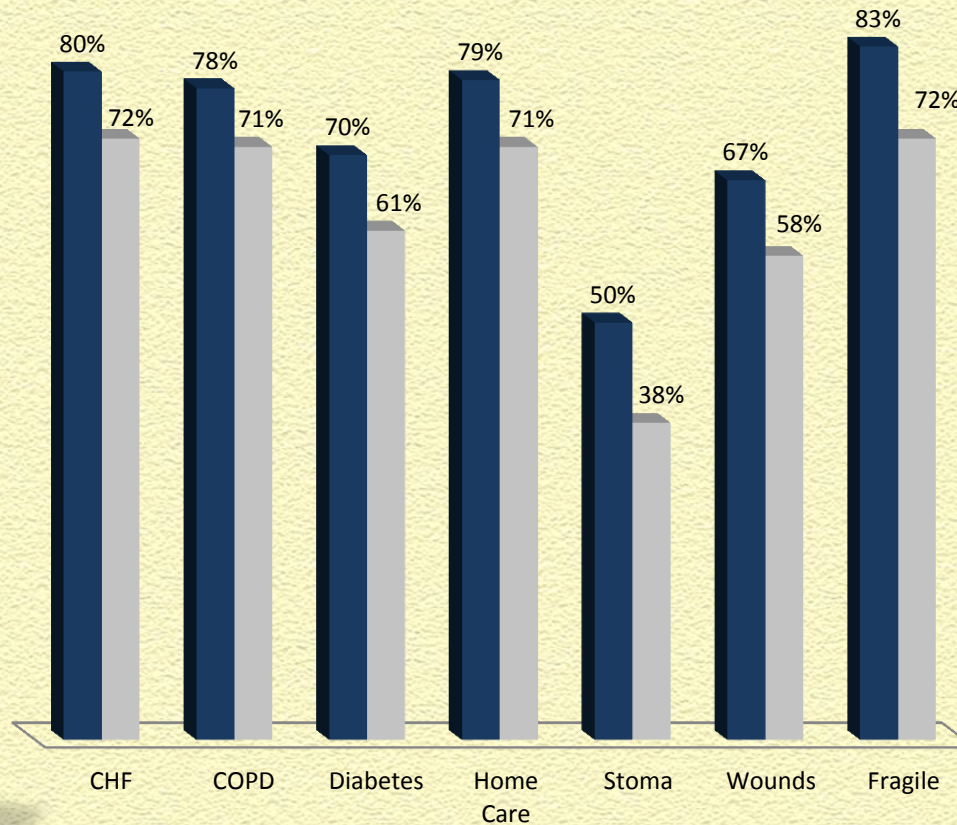
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395 smoking patients at entering Moma



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Flu vaccination rate



Quality Care

Infrastructure

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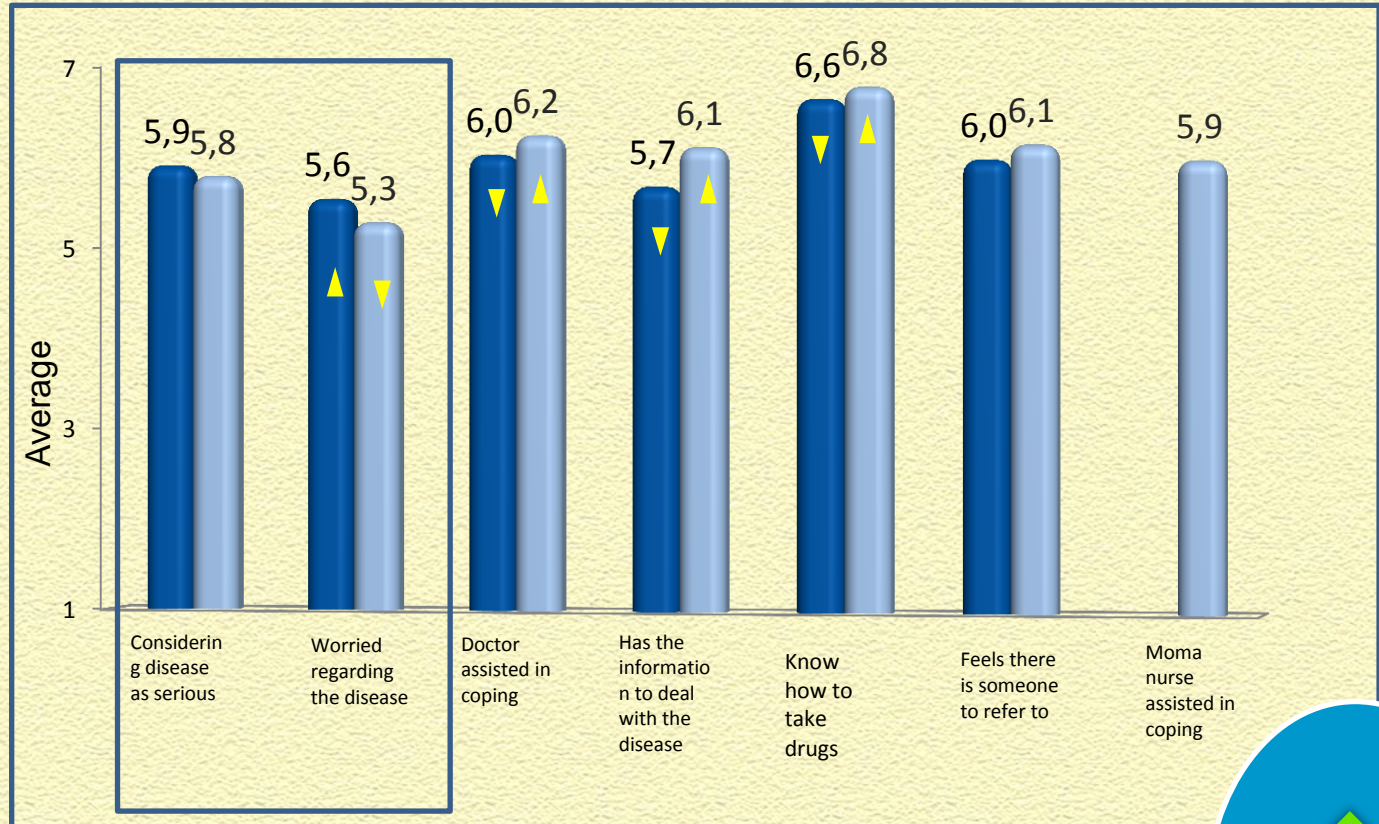
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■ Prior Moma ■ Moma

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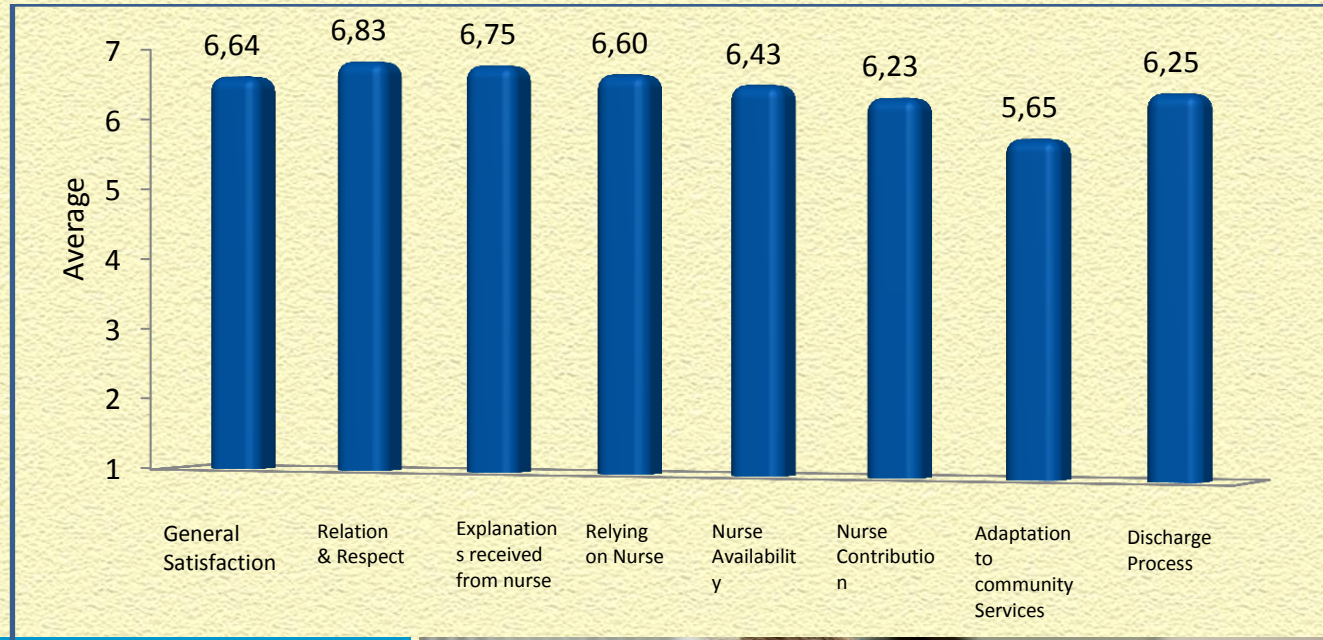
Patient's ability to cope with the disease



Significant improvement in patient's ability to cope with the disease



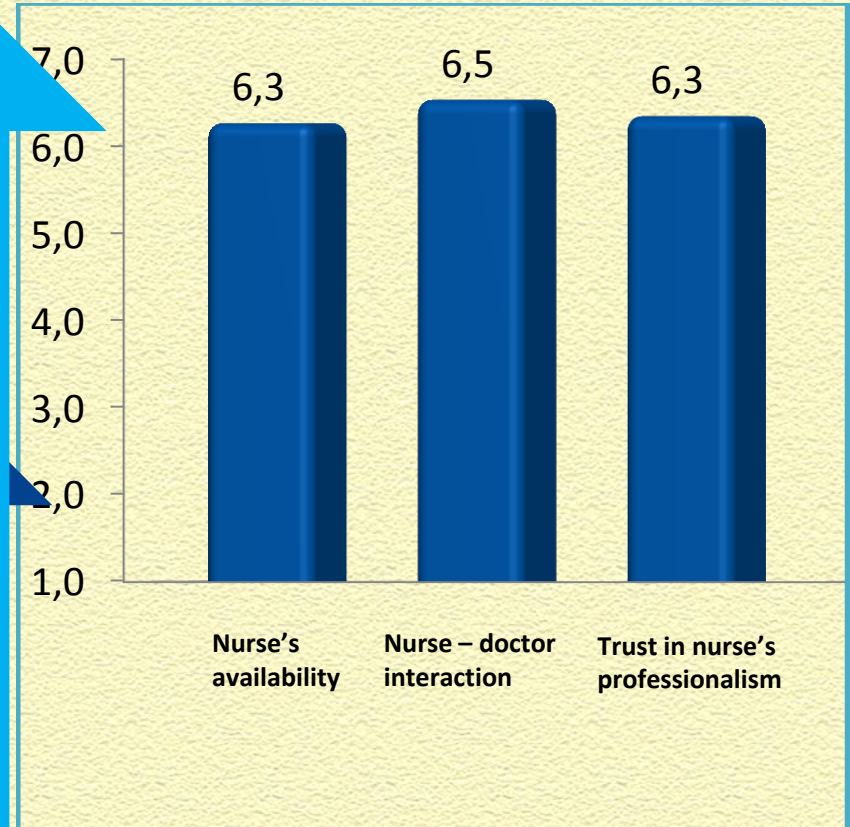
Patient's Satisfaction with MOMA Nurse



Satisfaction from Moma's nurse
High Satisfaction in all aspects



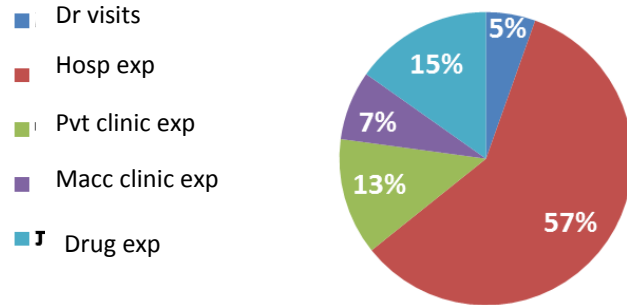
Doctors Satisfaction From MOMA Nurses



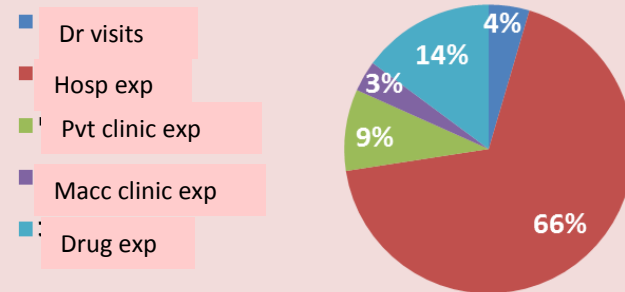
Doctor's high satisfaction is defined as 5.5 in Maccabi's surveys

CHF / relative weight of types of expenditures (2011 vs 2013) from total cost per patient

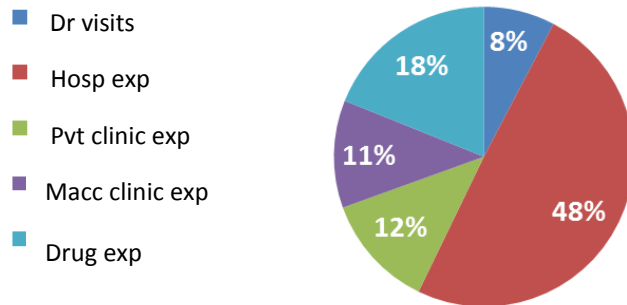
CASE 2011 Relative weight



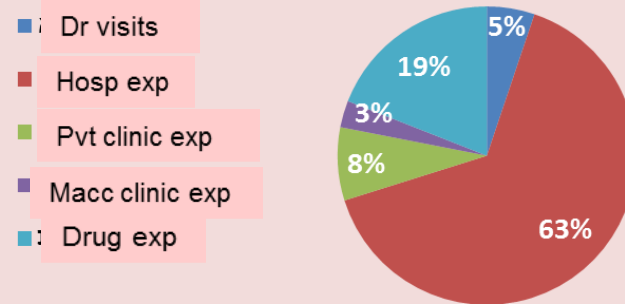
CONTROL 2011 Relative weight



CASE 2013 Relative weight



CONTROL 2013 Relative weight



CASE reduction of 9% in hospital expenditures
CONTROL reduction of 3% in hospital expenditures

Summary of Data – per person

Change	Average Cost 2013	Average Cost 2011	Type of Patient
8%	28,304	26,273	MOMA PT
48%	31,998	21,638	CONTROL
12%	4,319	3,873	Maccabi Average
4%	Estimated Savings Relative to Maccabi		





Alerts 3 new alerts

Functional assessment-ADL

Physician name & phone	Alert Type	Current scheduled task
	08/01/2014 04:00 ADL 5	15/01/14
Mr Yossi Geller 050-2121212	Dina Barzilay 054-223... 10/01/2014 07:00 ADL 13	15/01/14



Mr. Miguel Servet 055-5641254	Hadas Lewy	2 quest: Missing score	2 quest
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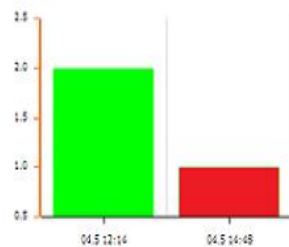
ADL - Scores ()

Last 10 measurements From Date

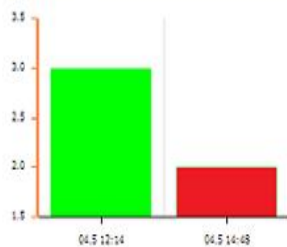
To Date

Search

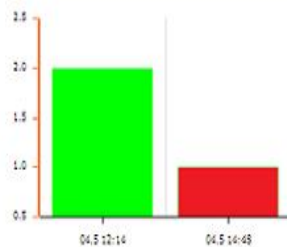
Transfer



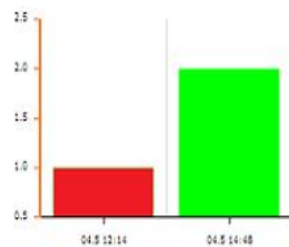
Mobility/Gait



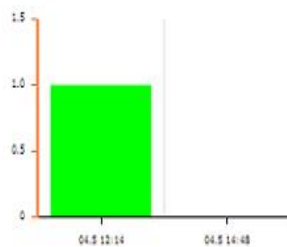
Dressing



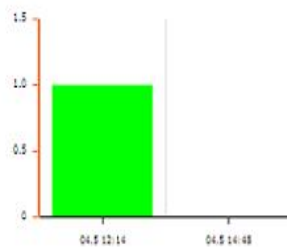
Feeding/Eating



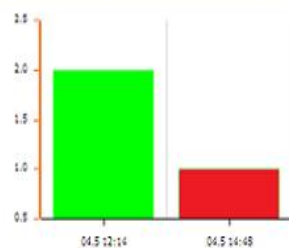
Bathing



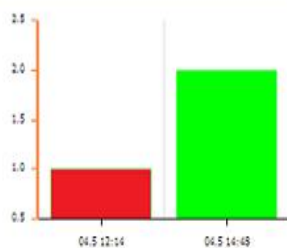
Grooming



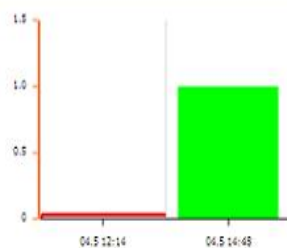
Toilet use



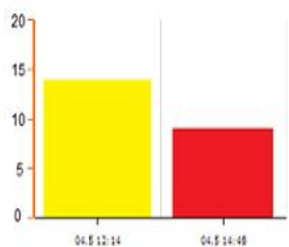
Bowel



Bladder



Total ADL



Behavior patterns- MCI, Falls

