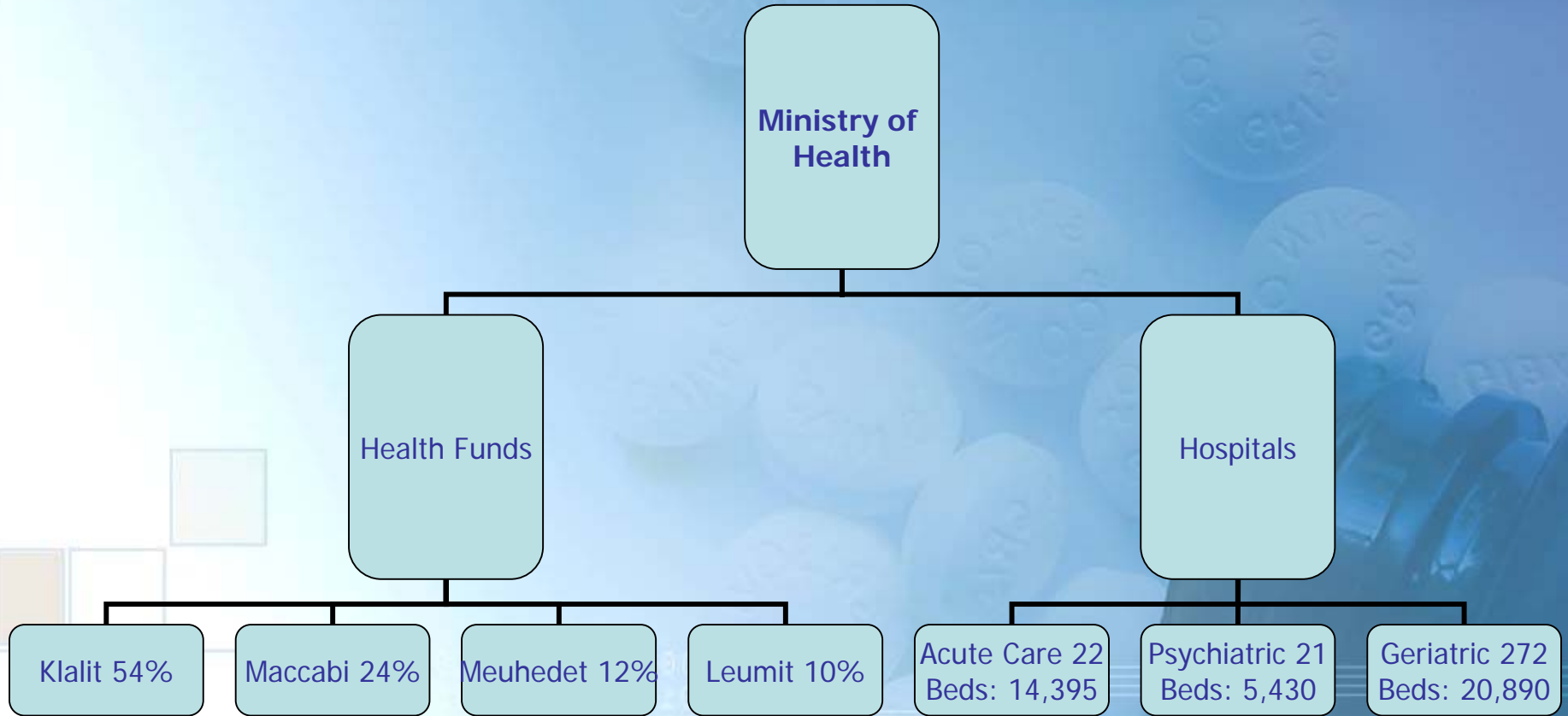


# Welcome to Maccabi Healthcare Services

# The Israeli Health System



## **National Health Insurance Law of 1995**

Health Funds provide a uniform legally defined basket of services to which every citizen is entitled

Every citizen is a member of one of four nationwide health funds

Citizens are free to choose and move between health funds

Health funds must accept all applicants for membership

Health funds are financed by government via age-related capitation payments (90% of total), patient charges and other income (10%)

## *Maccabi Statistics (2007)*

- 1,735,000 members (24% Market Share).
- 10,000 employees.
- 3,660 physicians:
  - 2,400 independent contract physicians.
  - 660 salaried physicians.
  - 470 consultants.
  - 130 hospital physicians.
- 5 regions with 150 branches and clinics
- Maccabi's income budget (capitation) –\$1.25 Billion

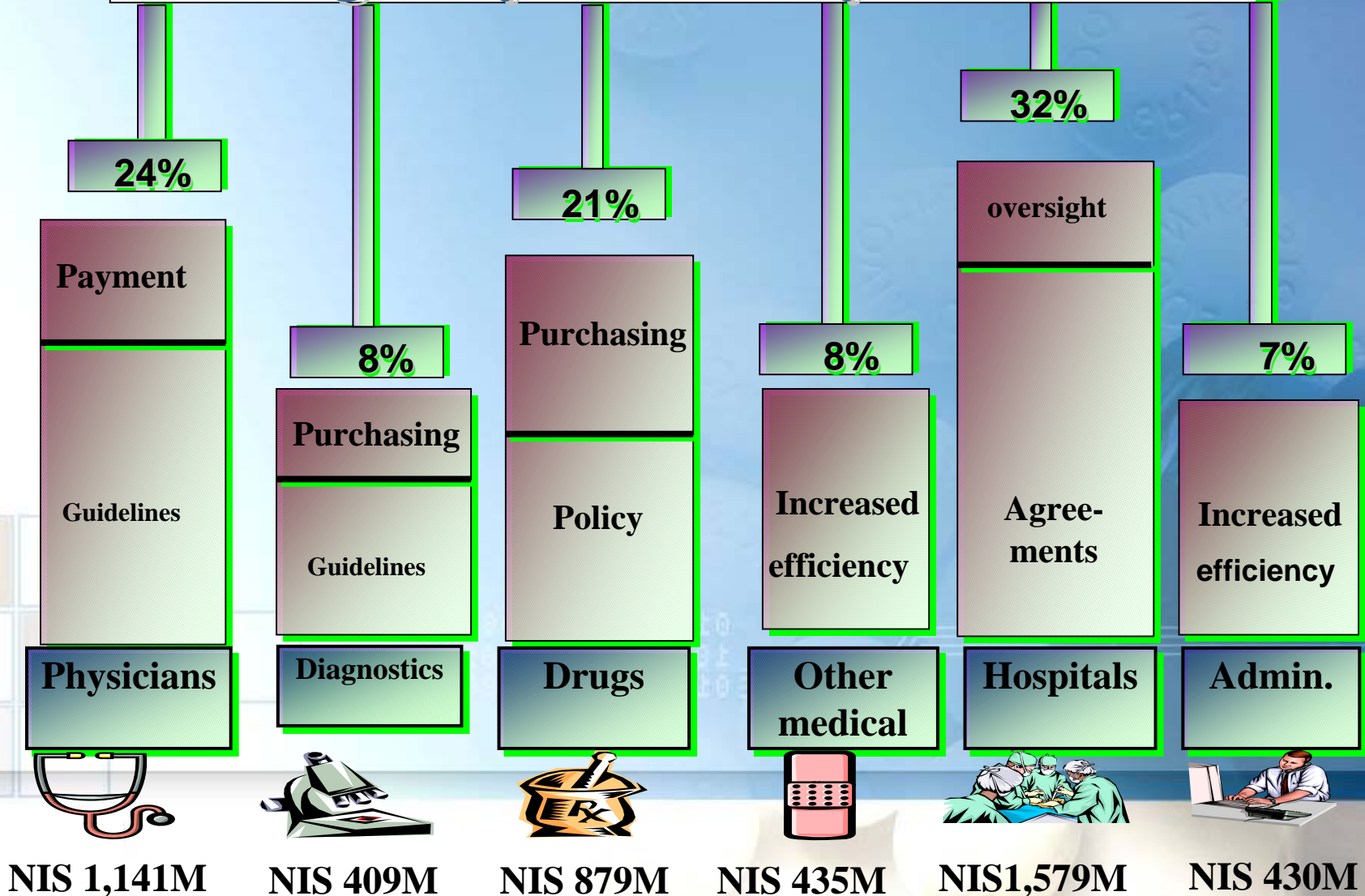
## The Maccabi Health Fund



## *Maccabi Healthcare Services*

- Free Choice of physician from a wide range of approved suppliers.
- Go directly to specialist without a family physician referral
- Supply Services via our own facilities and outside suppliers.
- Smart Flexible Payment Methods:
  - Physicians: Quarterly visits within global budget
  - Hospitals: Negotiated caps within a national cap
  - Other providers: Fee-for-service
- Patient's Co-payments: Medications, Physicians Visits, Specialist clinics etc.

# Budgetary Efficiency Processes



## Health Fund Financial Performance 2000-2006

Health Funds	2000	2001	2002	2003	2004	2005	2006
Clalit	-242	-472	-413	-106	4	NA	NA
<b>Maccabi</b>	<b>-140</b>	<b>-5</b>	<b>32</b>	<b>13</b>	<b>9</b>	<b>6</b>	<b>6</b>
Leumit	-111	-204	-94	-27	13	NA	NA
Meuhedet	-21	-53	29	-58	68	NA	NA

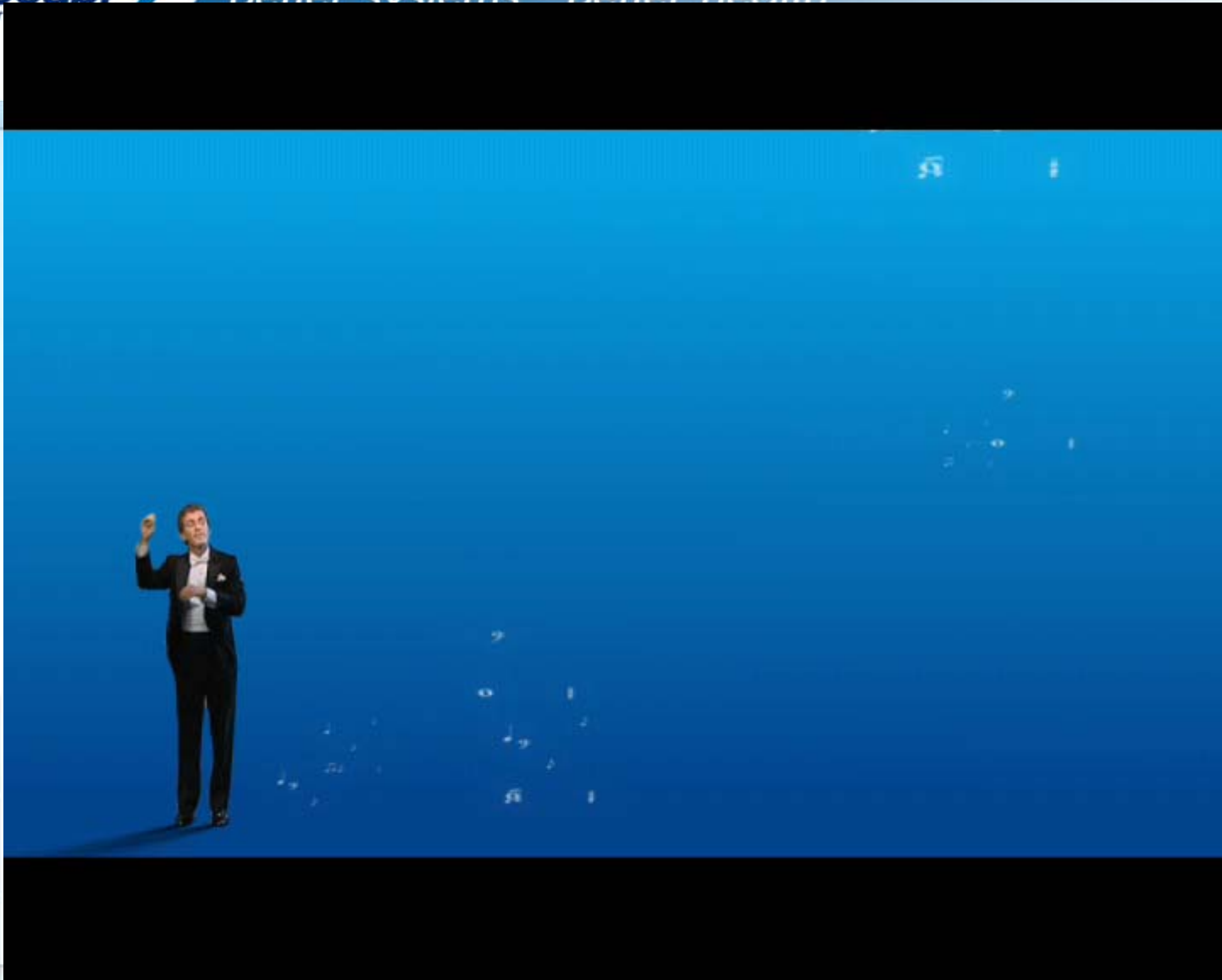
***One of the major factors in Maccabi's success is our integrated and comprehensive Health Management Information System***

**Maccabi began to build its HMIS in 1984**

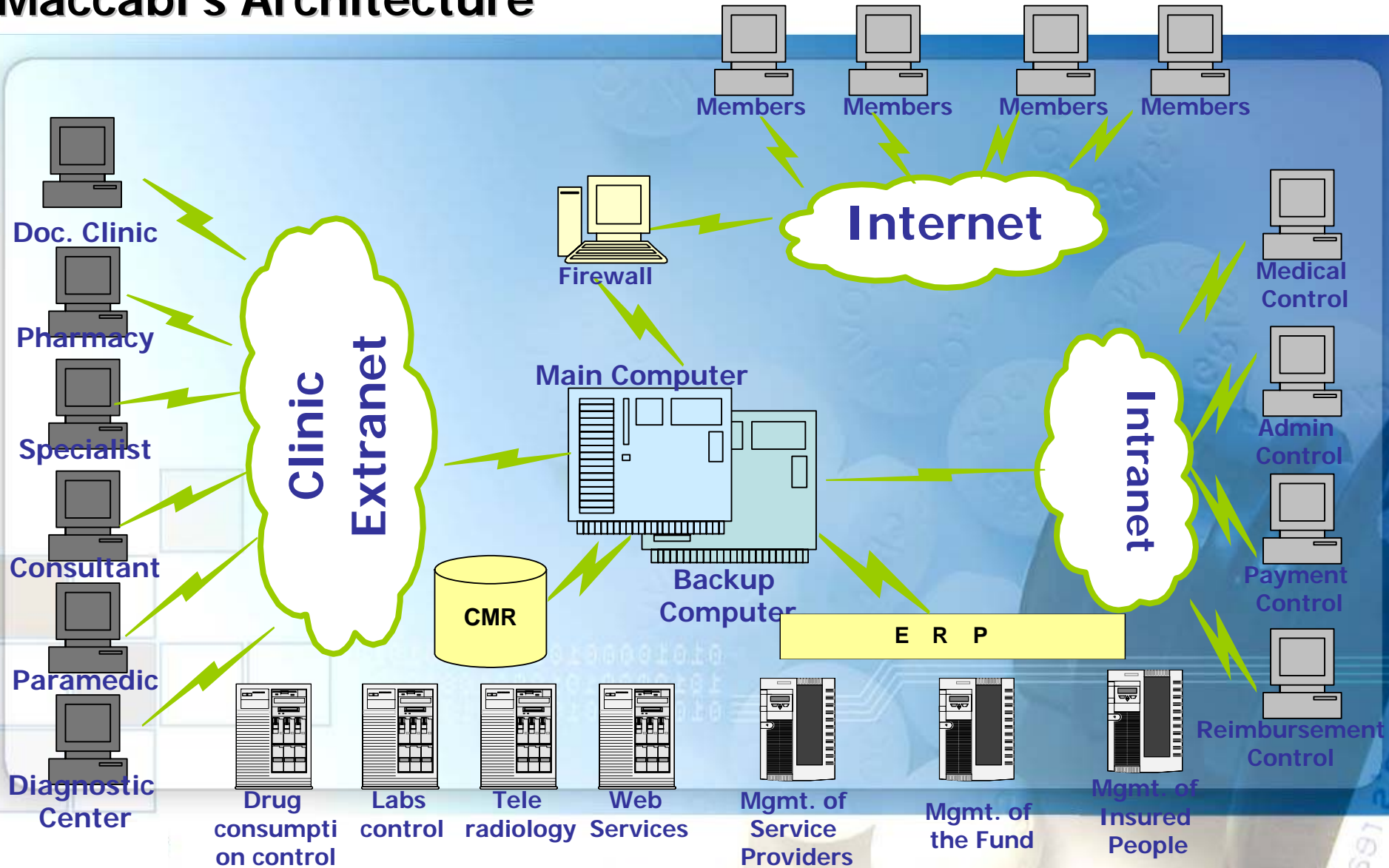
**During the 1980s:**

- **National Member Registry**
- **Physician and Hospital Contract and Claims Management**
- **Financial Management**
- **Plans for EMR**

**In 1988 Maccabi introduced its magnetic membership card – required at every POS**



# Maccabi's Architecture



A local EMR (17 years)

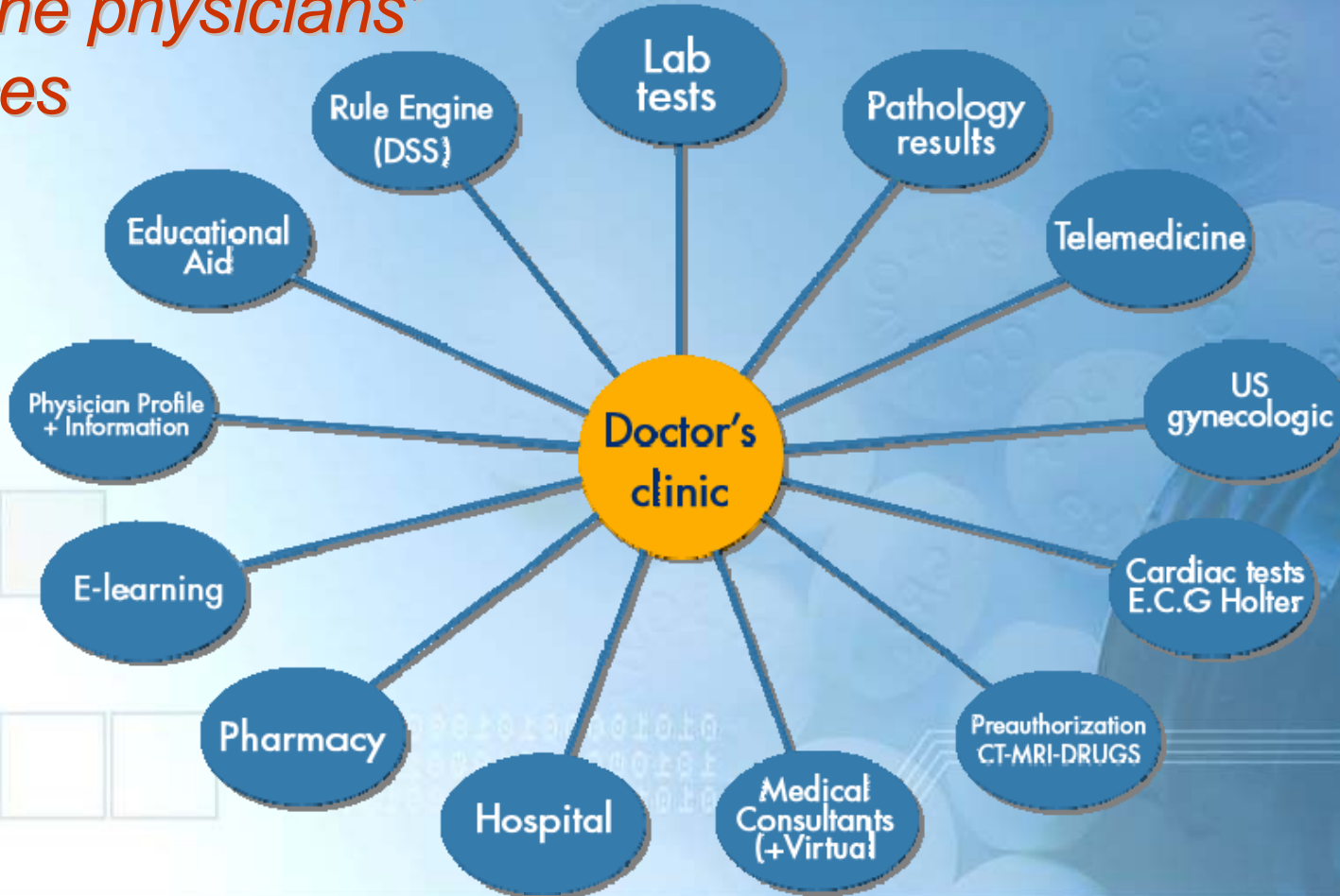


A local EMR with a minimal data set portal (5 years)

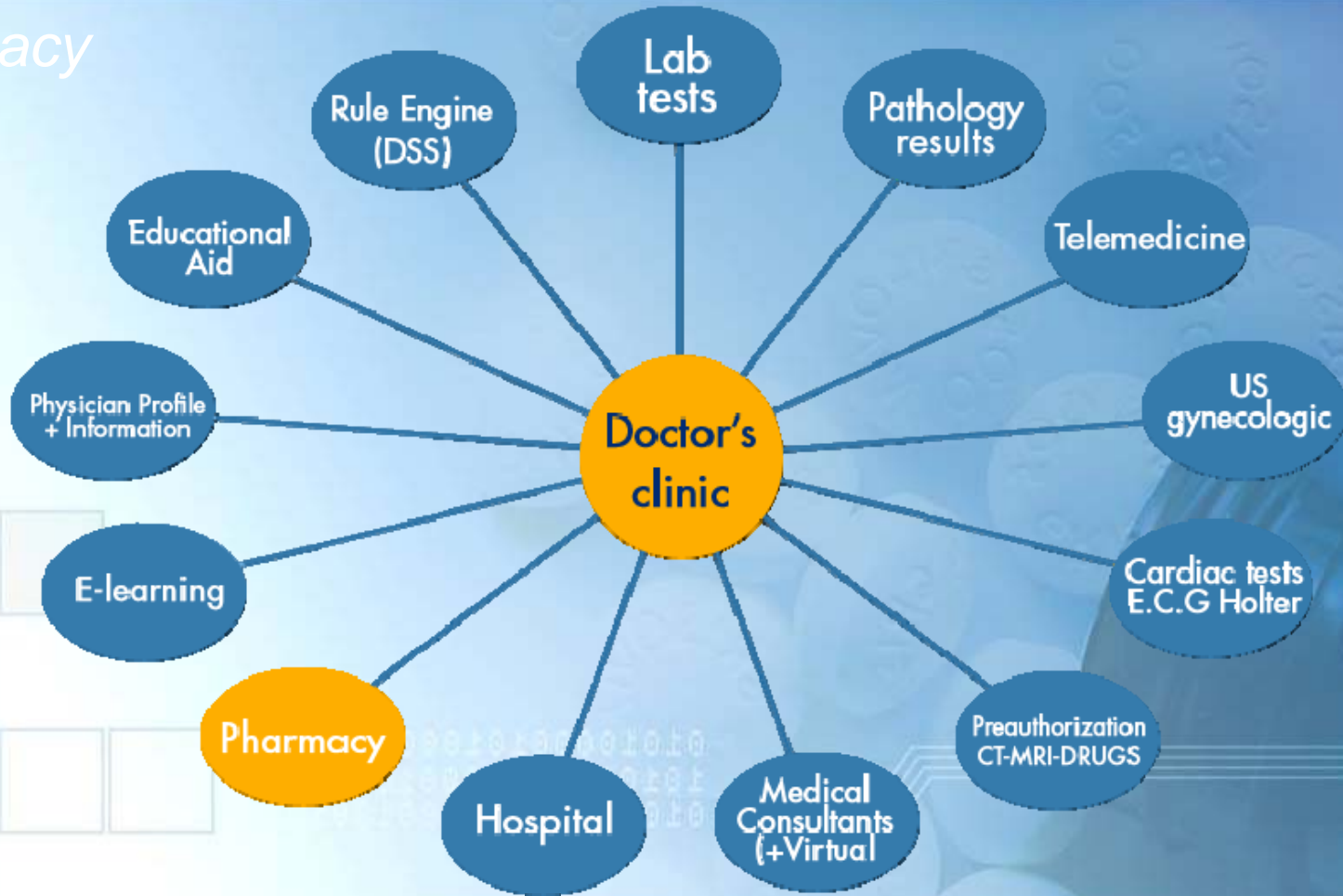


A central Medical Record

## *IT at the physicians' services*



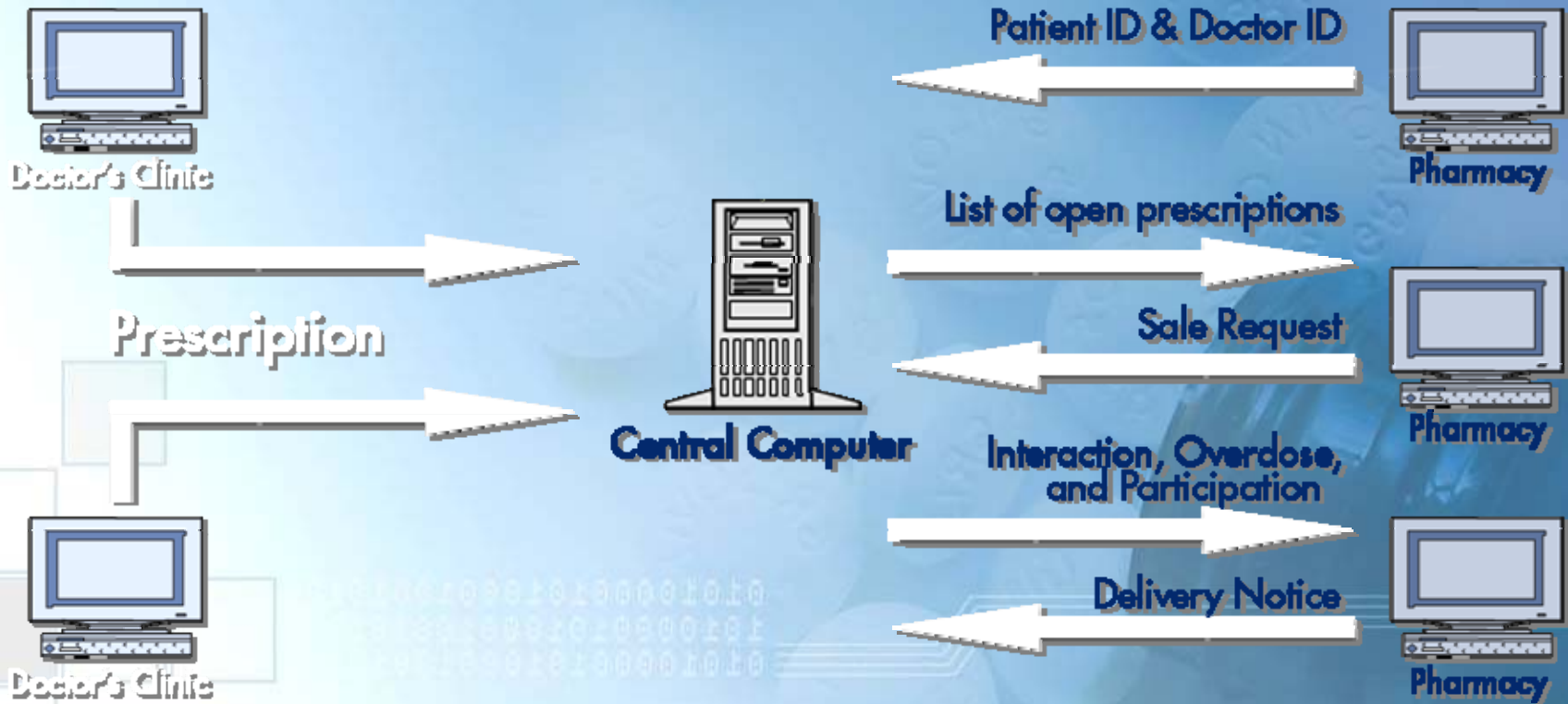
# Pharmacy



## Pharmacies communication



## Drugs & Medicine



## *Integrated DSS Systems Prescriptions*

### Medical/Control/Peer review

- Organization's drugs index
- Prescribing (Patient details / allergies / interactions)
- Generic substitute
- Preferred therapeutic alternatives
- Patient compliance

# Alerts for Drug Interactions or Allergies



לבחור מבין הטובים ביותר

60.2 תיק תיק 22 בן 60.2 gp\_s.vpr 86/משפחה/רפואי

RAFA מחפש: GEN HMD Approved only

Commercial Name	Prsnt	Strength	%	Price	!
RADIAN B SPR	SPR	100ML	100		
RADIAN-B	CRM	100GR	100		
<b>RAFAPEN MEGA</b>	<b>CAP</b>	<b>990MG X 20</b>	<b>100</b>	<b>00</b>	<b>!</b>
RAFAPEN V-K FORTE	SYR	250MG/5CC	100	0	
RAFAPEN V-K FORTE	TAB	500MG X 30	100	0	
RAFASSAL	SUP	250MG X 30	100	000	
RAFASSAL	TAB				
RAFASSAL	TAB				
RAFASSAL	SUP				
RAFASSAL	CAP				
RAFASSAL	SUP				
RAFASSAL ENEMA	ENEM				
RAFASSAL ENEMA	ENEM				
RAFATHRICIN+BENZ.	LOZE				
RAPAMUNE	SOL				
RAPAMUNE	TAB				

General allergies  
PENICILLIN - רגישות ל

מידע לגבי המטופל  
גיל 60.2  
מסקל 71  
תפקודי כליה  
Creatinine(b) תפקודי כליה  
Urea(b)  
תפקודי כבד  
AST(GOT)  
ALT(GPT)

אזהרה חמורה על רגישות  
**RAFAPEN MEGA**  
אסור לחולה רגיש לפניצילין.  
האם לאשר את התרופה למרות הרגישות ?

בטל אשור

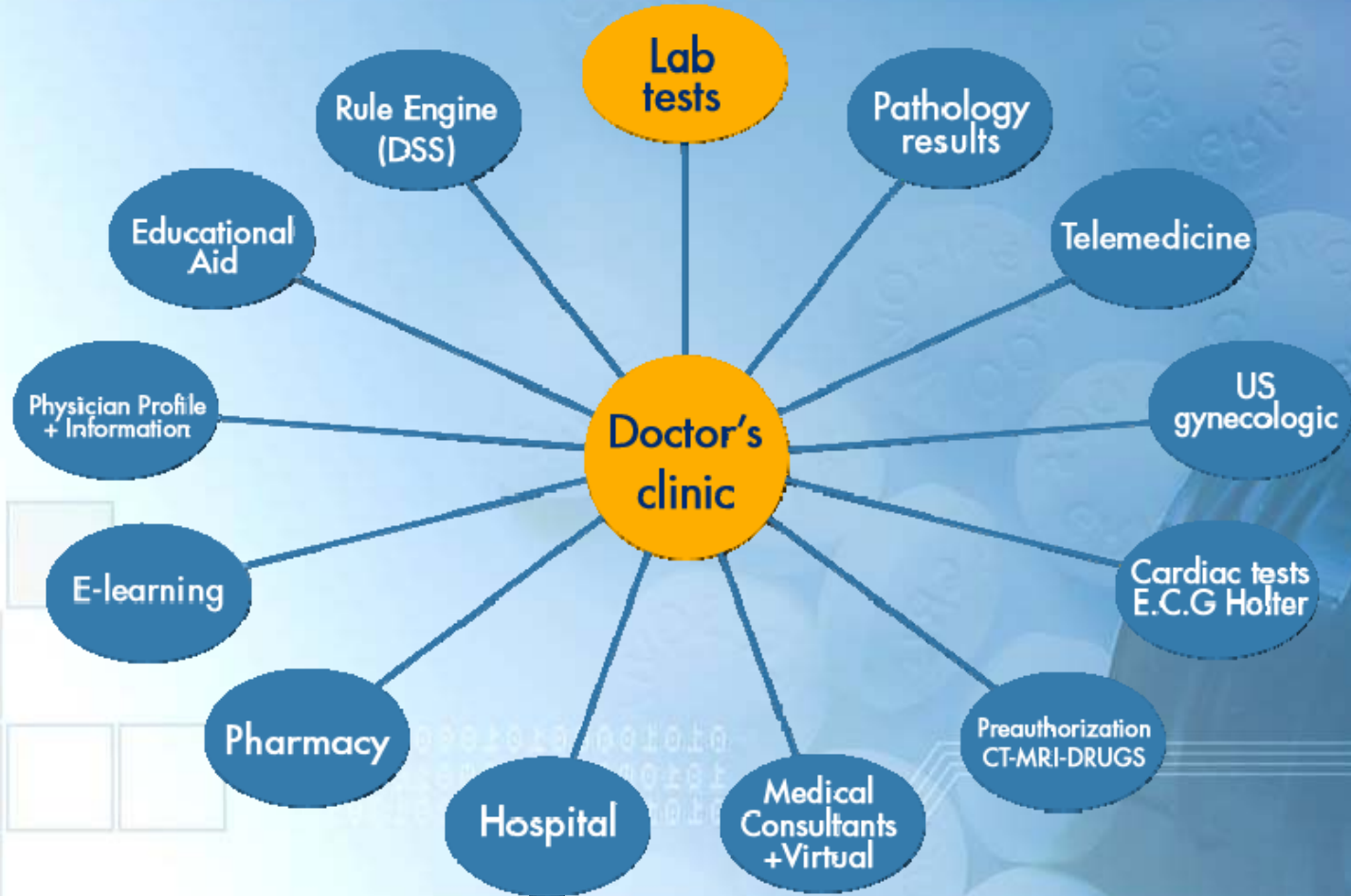
Name	Quan.	How	Times	Dosage	Days	Tot	DP	Re	P	C	N	Remark	DrugID	D

עד תאריך מתאריך קוד סוג האישור

סיכום תיק רישום ביקורים

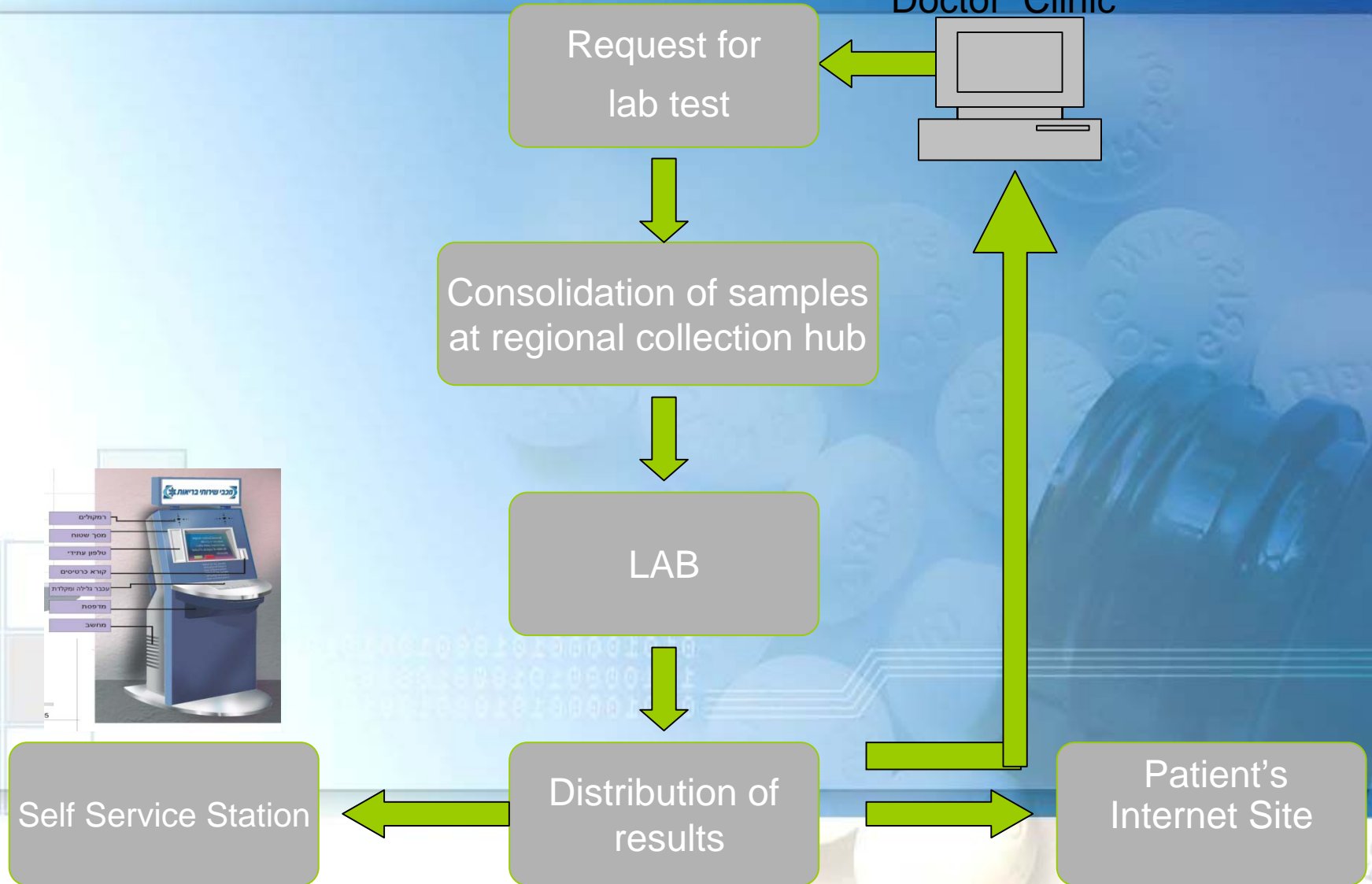
Maccabi Doc - Microsoft I... Clcks לניהול... מכבי שירותי... EN 11:30

Lab



# Lab Tests

Doctor Clinic





רישום ביקורים

הזמנת בדיקות מעבדה 18:00 17/05/2007 עדכון אחרון

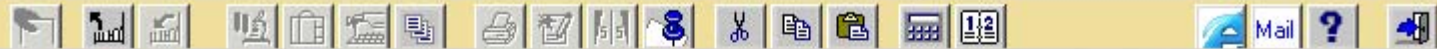
כימיה בדם	המטולוגיה	בקטרילוגיה	אנדוקרינולוגיה
<input type="checkbox"/> Glucose	<input type="checkbox"/> Tot.Protein	<input type="checkbox"/> CBC	<input type="checkbox"/> Beta HCG Qual
<input type="checkbox"/> Creatinine	<input type="checkbox"/> Urea Bun	<input type="checkbox"/> ESR	<input type="checkbox"/> משטח גרון
<input type="checkbox"/> Cholesterol	<input type="checkbox"/> Na	<input type="checkbox"/> PT	<input type="checkbox"/> ת. צואה
<input type="checkbox"/> Triglycerides	<input type="checkbox"/> K		<input type="checkbox"/> דם סמוי בצואה
<input type="checkbox"/> HDL	<input type="checkbox"/> Albumin	כללי	
<input type="checkbox"/> LDL	<input type="checkbox"/> Ca	<input type="checkbox"/> Urine General-sus.UTI	
<input type="checkbox"/> ALKP	<input type="checkbox"/> HBA1C		
<input type="checkbox"/> GPT			
<input type="checkbox"/> Bilirubin Neonatal-ילודים			

בדיקות נוספות  
**Less frequent tests**

הערות:

\* הערות \*





קבלת תשובות מעבדה בתקשורת

### מעבדות מכבי

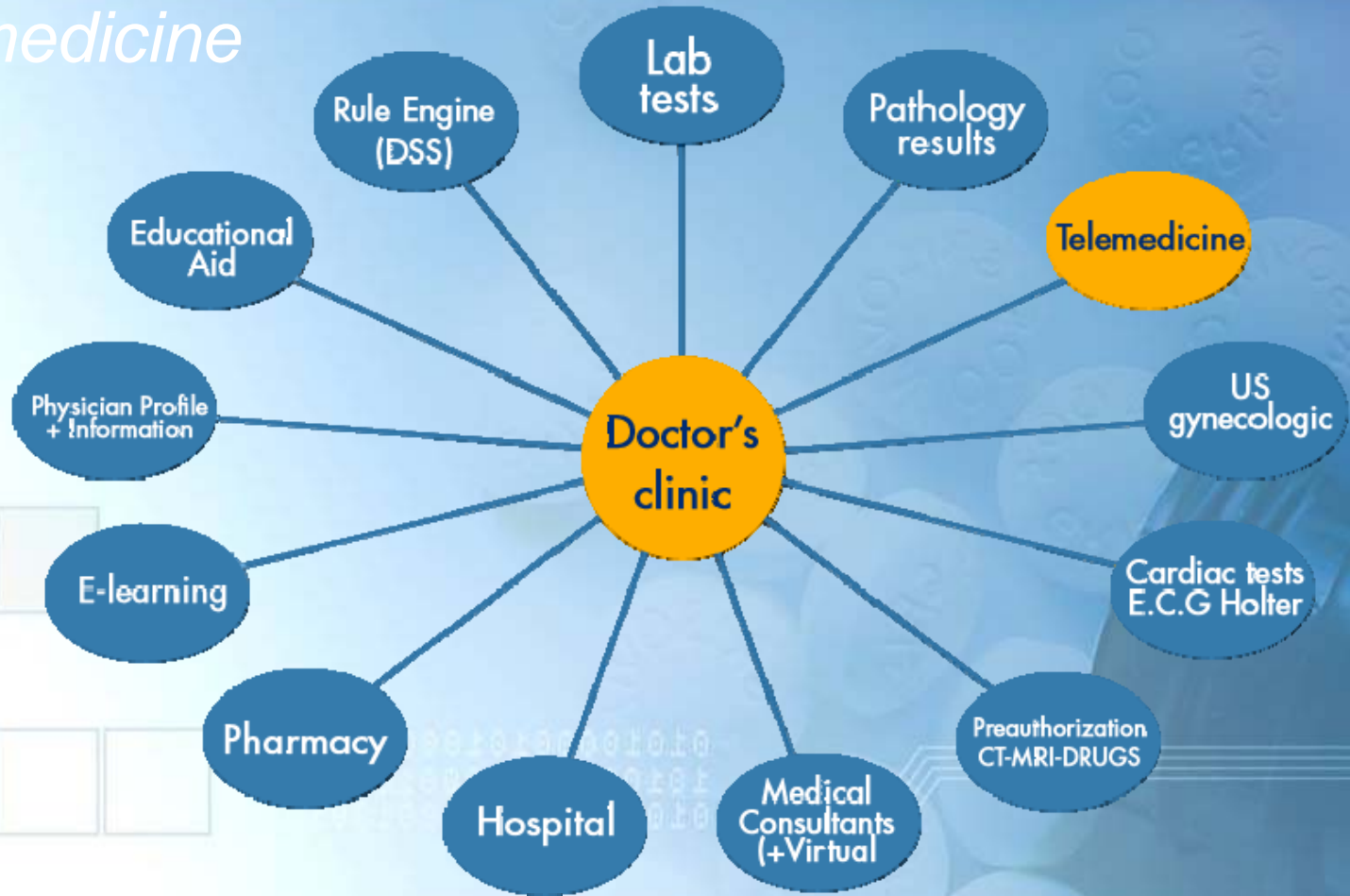
1/1

05/03/2007 ת הבדיקה: 4 שנים 4 חודשים גיל:

Test : ( מעבדות רגילות )	Result/Remark	Units	Low	High	RANGE
RBC-Red Blood Cells	4.93	10 <sup>6</sup> /mic 1	4.10	5.30	[.....*..]
WBC-Leucocytes	6.4	10 <sup>3</sup> /mic 1	4.50	13.50	[..*.....]
MPV -Mean Platelet Volume	10.9	fl	7.80	12.00	[.....*..]
<b>Hemoglobin</b>	<b>10.9</b>	<b>g/dl</b>	<b>12.00</b>	<b>15.00</b>	<b>LOW !!</b>
<b>Hematocrit</b>	<b>33.6</b>	<b>%</b>	<b>34.00</b>	<b>43.00</b>	<b>LOW !!</b>
<b>MCV (Mean Cell Volume)</b>	<b>68.0</b>	<b>fl</b>	<b>72.00</b>	<b>88.00</b>	<b>LOW !!</b>
<b>MCH-Mean Cell Hemoglobin</b>	<b>22.1</b>	<b>pg/cell</b>	<b>26.00</b>	<b>32.00</b>	<b>LOW !!</b>
MCHC-M. Cell Hb	32.4	g/dl 1	32.00	37.00	[*.....]
<b>RDW-Red Cell Distri. Width</b>	<b>18.6</b>	<b>%</b>	<b>11.60</b>	<b>15.00</b>	<b>HIGH !!</b>
Platelets	260.0	10 <sup>3</sup> /mic 1	150.00	450.00	[..*.....]
Eosinophils #	0.22	#	0	0.60	[..*.....]
<b>Neutrophils %</b>	<b>25.2</b>	<b>%</b>	<b>40.00</b>	<b>60.00</b>	<b>LOW !!</b>

- אשר
- אישור וכניסה לחיק
- אישור והוספת תזכיר
- אישור והצגת מעבדות
- אשר והדפס
- אשר והדפס הכול
- אשר והדפס חריגות
- הפסק עכשיו

# Telemedicine



## Telemedicine Applications



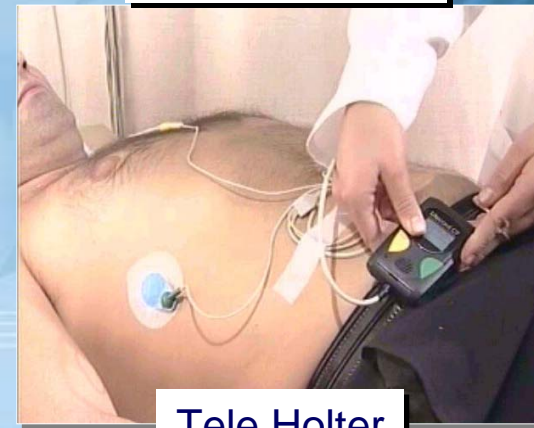
Tele E.C.G.



Tele Radiology



Tele Ultrasound

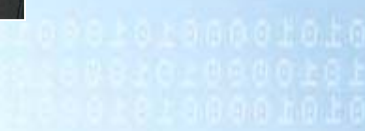


Tele Holter

# TeleRadiology

Diagnostic Center **Haifa**

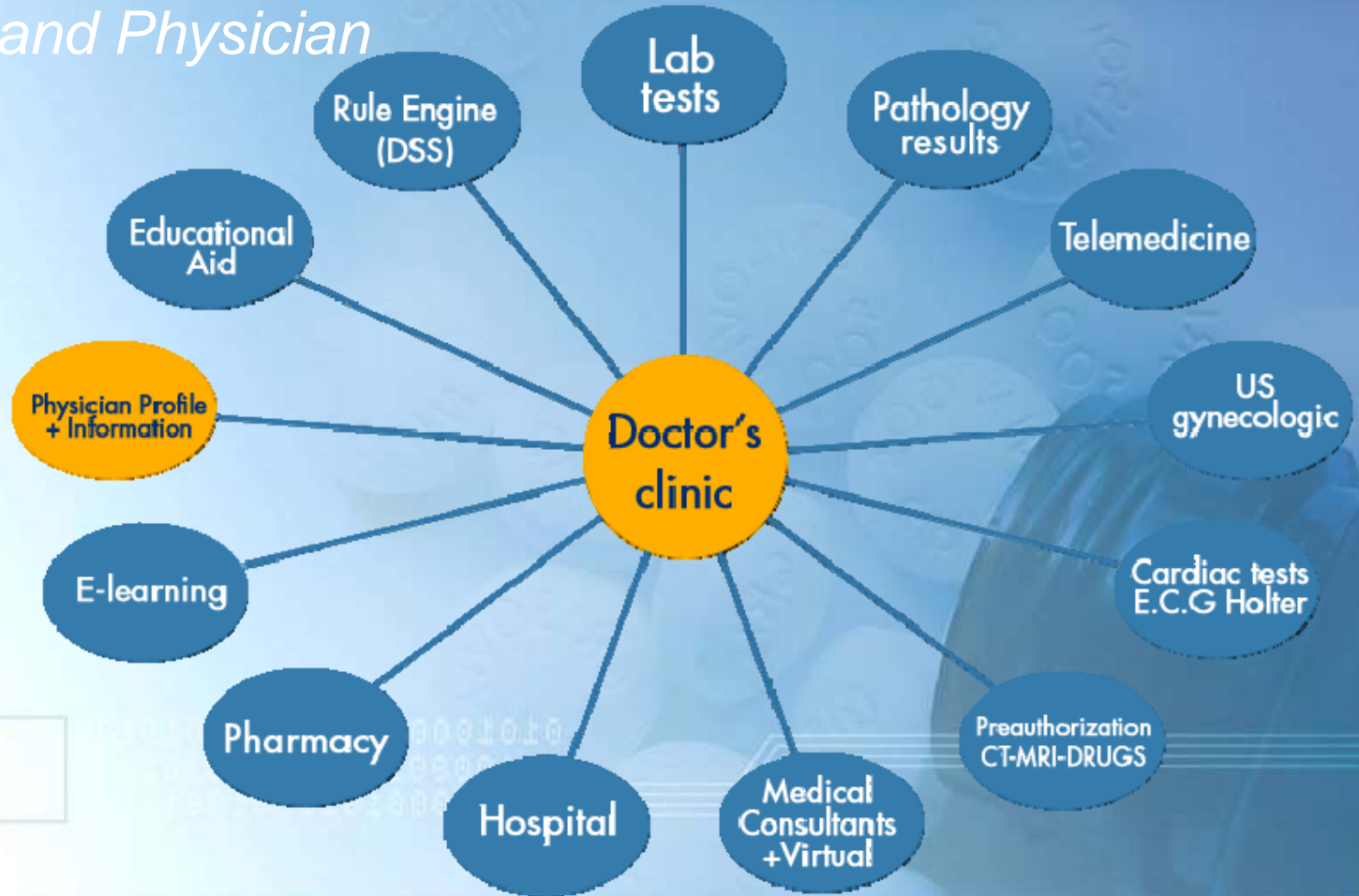
Diagnostic Center **Tel Aviv**







## Information and Physician Profile



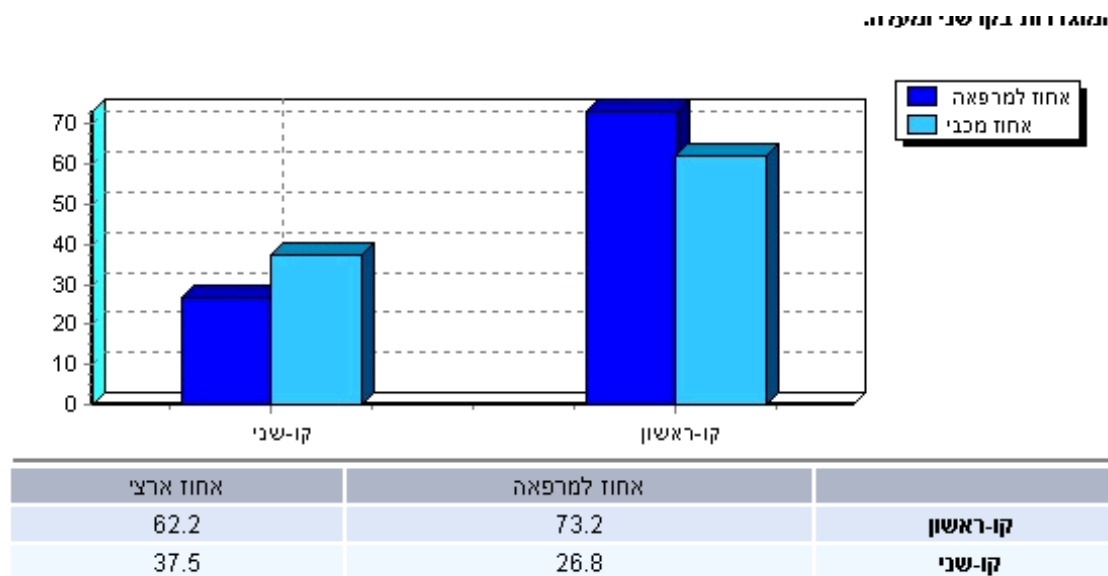
## Maccabi Medical Registries (Disease Management)

Name of registry	Year of Implementation	Current no. of patients
Diabetes	1999	70,000
Cardiovascular	2003	51,000
Infertility	2004	10,000
Hypertension	2005	220,000
Home Care 2005	2005	5,500
Cancer	2006	33,000
Co-morbidity	2007	—

\* Data collected since 1998

## Usage of First and second line Antibiotics

Usage of First and second line Antibiotics



# Patients at Risk that did not get Influenza Shots

חזרה נירסא ליה

## Patients at Risk that did not get Influenza Shots

דרי:

תעודת זהות	שם משפחה	שם פרטי	גיל	טלפון ראשי	טלפון משני	לב	סוכרת	אסטמה	חוסן פניאמומוקס
72		לידיה	60	-					
66		עדנה	73	052-3900707			✓		
05		עופר	43	03-9012706			✓		
79		יעל	45	03-5404443				✓	
98		לי	56	03-9383218		✓			
87		מנחם	56	03-9362313			✓		
08		אהובה	55	-					
32		יצחק	58	03-9381443					
87		יעקב	55	03-9381435					
66		יוסף	66	03-9380538			✓		
83		שרה	63	-					
90		ולדמיר	53	03-9014329		✓			
29		דורון	41	03-9011221			✓		
44		יאיר יוסף	33	03-9363202				✓	
58		ששון	55	03-9011816					
39		אליעזר	58	03-9383997					
46		אורי	38	03-9011672			✓		
54		אורי	41	054-4615605				✓	
58		אסתר	58	-					
65		רוני	43	03-9381238			✓		

דף ראשי

הארות והסברים

אפיון המרפאה

שימוש בתרופות

רפואה מונעת

חיסוני שפעת

מטופלים ללא חיסון שפעת

LDL בדיקת > 190

בדיקות ממוגרפיה

רשם סוכרת

רשם לב

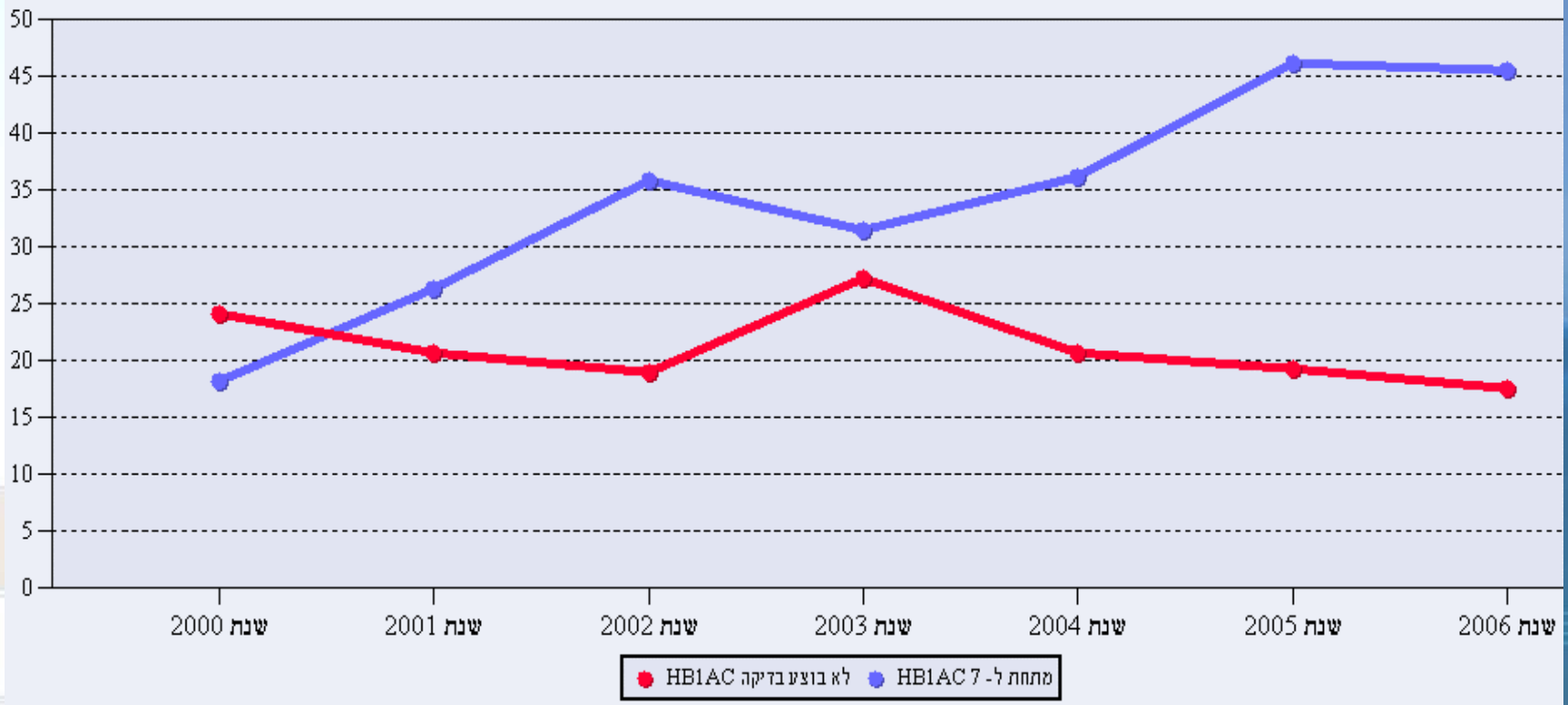
Opisoft

Human Vision Alerts Technology

# Diabetes Registry

Improvement in HbA1c Tests and Values Over Time

% of registry patients



More Information

Less Mistakes

Better Treatment

Saves Lives



# Thank you!

## Contact Information:

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Maccabi Institute for Health  
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[Kaye\\_r@mac.org.il](mailto:Kaye_r@mac.org.il)

Mrs. Dalia Idar  
Director  
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