Rambam Health Care Campus

April 2011
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ISRAEL - Health and Population Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Population</td>
<td>7.7 million (1.9%/y)</td>
</tr>
<tr>
<td>Over 65 years of age</td>
<td>10%</td>
</tr>
<tr>
<td>Under 14 years of age</td>
<td>28%</td>
</tr>
<tr>
<td>National Health Insurance</td>
<td>Since 1995</td>
</tr>
<tr>
<td>Health providers</td>
<td>4 HMOs</td>
</tr>
<tr>
<td>GDP per capita</td>
<td>28,500 PPP$</td>
</tr>
<tr>
<td>Health expenditure (%GDP)</td>
<td>7.9%</td>
</tr>
<tr>
<td>Per capita health expenditure</td>
<td>2250 PPP$</td>
</tr>
<tr>
<td>General Hosp. beds</td>
<td>1.95/1000</td>
</tr>
<tr>
<td>MDs</td>
<td>3.5/1000</td>
</tr>
<tr>
<td>Life expectancy at birth (yrs)</td>
<td>F=82, M=79</td>
</tr>
<tr>
<td>Infant mortality rate</td>
<td>4‰</td>
</tr>
</tbody>
</table>

City of Haifa

Population:
- City = 280,000
- With suburbs = 780,000
- Northern Israel = 2,000,000
### Rambam – The Tertiary Medical Center for Northern Israel (2010 data)

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital beds</td>
<td>988</td>
</tr>
<tr>
<td>Emergency Department visits</td>
<td>118,396</td>
</tr>
<tr>
<td>Annual admissions</td>
<td>80,923</td>
</tr>
<tr>
<td>Average occupancy</td>
<td>103%</td>
</tr>
<tr>
<td>Length of stay (days)</td>
<td>4.3</td>
</tr>
<tr>
<td>Outpatients visits</td>
<td>610,556</td>
</tr>
<tr>
<td>Surgical activity (procedures / pts)</td>
<td>51,314 / 30,200</td>
</tr>
<tr>
<td>Cath lab</td>
<td>2283</td>
</tr>
<tr>
<td>Births</td>
<td>5,006</td>
</tr>
<tr>
<td>Employees / Physicians / Nurses</td>
<td>4,444 / 1,020 / 1,511</td>
</tr>
<tr>
<td>Income (millions in NIS)</td>
<td>1,097 (313 m$)</td>
</tr>
</tbody>
</table>

#### Director General

**Director, Medical & Research Development**
- **Children’s Medicine**
- **Cardiac Surgery**
- **Division of Obstetrics & Gynecology**
- **Division of Psychiatry**
- **Children’s Hospital**

**Core & Support Services**
- **OR & Anesthesia**
- **Emergency Medicine**
- **Units of Intensive Care**
- **Imaging**
- **Laboratory Medicine**
Inclusive Computerized Patient File (since 2000)

- > 2000 users
- All departments, ambulatory & diagnostic services
- Medical, nursing, supporting services
- Fully integrated to BI and to economic logistic data warehouse
- Disaster recovery

National Trauma Registry Data 2009

# of Casualties ISS >= 16 all Trauma Centers (n= 3161)

Radiotherapy 2004-2009

250 pts / day
2004 - Prof. Hershko and Prof. Ciechanover (Chair, Scientific Advisory Board of Rambam), received the Nobel Prize in chemistry for the research of the UBQUITIN system - responsible for turnover of cell proteins

Velcade – 1st Ubiquitin based anti-cancer drug (MM; NH lymphoma) was approved by the FDA

- Prof. Gepstein - Dep. of Cardiology created a “biological pacemaker” (turned stem cells into functioning pacemaker cells)

Haifa – the origin of the first lines of Human Embryonic Stem Cells

Stem cell research is leaded by Prof. Itskovitz – Head, Dep. of Obstetrics & Gynecology at Rambam
Hybrid Imaging (born in Haifa) Collaboration of Rambam + GE Medical

SPECT/CT = a new hybrid scanner combining in one image coronary artery anatomy with myocardial perfusion

Prof. Ora Israel, head NM (Co-Inventor of Pet-CT)

Summer of 2006 – the 2nd Lebanon war

Total no. of rockets = 3,970
Kibat Shemona ~ 1000
Naharia = 806; Tzfat = 471
Haifa ~ 100 (+ ??? into the sea); 220 mm

Civilian casualties:
- Killed – 43 (12 in Haifa)
- Injured – 1500
- Stress reaction – 2700

August 13, 2006
> 60 rockets fell within ½ mile radius surrounding Rambam
From vacant basement into hospital department in 48h
(Electricity; air conditioning; water; chemical WC; computer network)

New top priority construction projects:
- Protected emergency department
- 2000 fully protected (against conventional & non-conventional
  weapons) hospital beds in the new parking lot

2006 war – adjustment of priorities:
Emergency Medicine & Trauma Center
(26 October 2009)

Sheltered Underground Hospital (2000 beds)

Car Park (1,500 spaces)
Level -1

- decontamination
- logistic
- ER
- Post trauma

Level -2 (8,200 m²)

- Beds (757)
- Staff & services

- * fully sheltered area

Level -3 (14,800 m²)

- Beds (880)
- Labor rooms (20 – 16)
- Nursery (120)
- Dialysis (94)
- Linear Acc (4)
- ICU (85)

- Water – 2400 m³
- Diesel – 30,000 m³

- * fully sheltered area
Operating Theatre

Portable oxygen & power supply

Portable sanitary tools