The Israel Society for Clinical Oncology and Radiation Therapy (ISCORT)  
2014  
Eliahu Gez, MD
In Israel there are two Professional Specialties – Medical & Radiation Oncologists in one Society

The Israel Society for Clinical Oncology and Radiation Therapy (ISCORT)
In Israel Two Professional Specialties in one Society

A unique opportunity for collaboration
In the last decade there has been a significant increase in knowledge and understanding of the development process and treatment options for malignant disease.

Examples: kidney cancer, melanoma, breast cancer, lung cancer, etc.
Development in Oncology during Decades: Animal Studies

Number of Published Animal Studies

- Oncology
- Cardiology
- Autoimmune diseases
Development in Oncology during Decades: Clinical Trials

![Controlled Clinical Trials](chart.png)
Oncology: Introduction

As a result of this development:

- Improving patient care, quality of life and life expectancy
5-year Survival by Year of Diagnosis: All Cancer Sites
Oncology: Introduction

As a result of this development:

- Increase in the human and financial resources required

The question –

- Can the national health care system provide a solution that fully meets the need?
The Role of Oncologist in the Treatment of Patients with Malignant Disease

In most cases of malignant disease a Medical Oncologist or Radiation Oncologist is involved in the treatment and management of the patient.
The Role of Oncologist in the Treatment of Patients with Malignant Disease

In most cases of malignant disease a Medical Oncologist or Radiation Oncologist is involved in the treatment and management of the patient.

But there are exceptions:
In some medical centers in Israel the treatment & management of ovarian cancer patients are under the responsibility of the Gynecologist.
The Role of Oncologist in the Treatment of Patients with Malignant Disease

This development could have a negative impact on the role of the Medical Oncology Professional in the treatment and management of patients with malignancy.
Malignant Diseases: Male Incidence
Israel, 2008

Jews

Arabs

Age-adjusted incident rate per 100,000 people
Malignant Diseases: Female Incidence
Israel, 2008

Age-adjusted incident rate per 100,000 people
Cause of Death: Israel 2008

- Cancer: 25.8%
- Heart Dis: 17.3%
- Diabetes: 5.2%
- Vascular Dis: 5.2%
- CVA: 6.3%
- Others: 34.6%
The Basic Health Basket

The medical services basket encompasses the entire range of services, drugs, medical equipment and devices that the insured public has a right to receive.
Guidelines for Clinical Trials in Human Subjects
At the end of 2011, there were in Israel 3,961,800 women (50.6%) and 3,874,800 men. Total: 7,836,600
Medical Oncology

Israel 2014
Number of Oncology Outpatient Visits
1999 - 2010
Cancer Centers in Israel

1. Rambam
2. Sheba
3. TASMC
4. Hadassah
5. Davidoff
6. Soroka

- Comprehensive centers for surgery, radiotherapy, chemotherapy and pediatric oncology
- Outpatient clinic
- Day care
- Radiotherapy units
- Inpatient units
Cancer Units in Israel

1. Western Galilee
2. Ziv
3. Poria
4. Emek
5. Hillel Yaffe
6. Laniado
7. Assaf Harofeh
8. Meir
9. Barzilia
10. Shaare Zedek
11. Kaplan
12. Wolfson
13. Linn
14. Assuta

- 1. Outpatient clinic
- 2. Day care
## Data of Activities in Six Medical Centers in Israel

<table>
<thead>
<tr>
<th>Medical Center</th>
<th>No. of RT Simulations</th>
<th>No of Day Care Unit Visits</th>
<th>No. of Clinical Visits</th>
<th>No. of New Patients</th>
<th>No. of Beds</th>
<th>No. of Existing Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rambam</td>
<td>2,222</td>
<td>21,165</td>
<td>27,063</td>
<td>2,996</td>
<td>46</td>
<td>35</td>
</tr>
<tr>
<td>Soroka</td>
<td>1,309</td>
<td>11,312</td>
<td>21,329</td>
<td>1,094</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>Hadassah</td>
<td>2,076</td>
<td>14,730</td>
<td>23,500</td>
<td>3,000</td>
<td>32</td>
<td>31</td>
</tr>
<tr>
<td>Sheba</td>
<td>3,743</td>
<td>25,670</td>
<td>40,000</td>
<td>4,200</td>
<td>29</td>
<td>38</td>
</tr>
<tr>
<td>Ichilov</td>
<td>1,873</td>
<td>29,853</td>
<td>24,639</td>
<td>3,692</td>
<td>34</td>
<td>31</td>
</tr>
<tr>
<td>Bellinson</td>
<td>2,370</td>
<td>24,170</td>
<td>39,700</td>
<td>2,480</td>
<td>25</td>
<td>34</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13,593</strong></td>
<td><strong>126,900</strong></td>
<td><strong>176,231</strong></td>
<td><strong>17,462</strong></td>
<td><strong>190</strong></td>
<td><strong>157</strong></td>
</tr>
</tbody>
</table>
# Data of Activities in Six Medical Center in Israel

<table>
<thead>
<tr>
<th>Medical Center</th>
<th>No. of Existing Positions</th>
<th>No. of Positions Required</th>
<th>No of deficit Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rambam</td>
<td>35</td>
<td>50</td>
<td>15</td>
</tr>
<tr>
<td>Soroka</td>
<td>18</td>
<td>31</td>
<td>13</td>
</tr>
<tr>
<td>Hadassah</td>
<td>31</td>
<td>40</td>
<td>9</td>
</tr>
<tr>
<td>Sheba</td>
<td>38</td>
<td>66</td>
<td>28</td>
</tr>
<tr>
<td>Ichilov</td>
<td>31</td>
<td>50</td>
<td>19</td>
</tr>
<tr>
<td>Bellinson</td>
<td>34</td>
<td>56</td>
<td>22</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>187</strong></td>
<td><strong>293</strong></td>
<td><strong>106</strong></td>
</tr>
</tbody>
</table>
### Data of Activities in Six Medical Center in Israel

<table>
<thead>
<tr>
<th>Medical Center</th>
<th>No. of Existing Positions</th>
<th>No. of Positions Required</th>
<th>No of deficit Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rambam</td>
<td>35</td>
<td>50</td>
<td>15</td>
</tr>
<tr>
<td>Sheba</td>
<td>56</td>
<td>66</td>
<td>28</td>
</tr>
<tr>
<td>Ichilov</td>
<td>31</td>
<td>50</td>
<td>19</td>
</tr>
<tr>
<td>Bellinson</td>
<td>34</td>
<td>56</td>
<td>22</td>
</tr>
<tr>
<td>Total</td>
<td>187</td>
<td>293</td>
<td>106</td>
</tr>
</tbody>
</table>

56% additional Clinical & Radiation Oncologists are Required
Radiotherapy: Israel 2014
Number of Linear Accelerators in Israel

- Assuta: 2
- Bellinson: 5
- Haddash: 3
- Soroka: 2
- Rambam: 4
- Sheba: 4
- Sourasky: 4
Number of Patients Treated Yearly by Radiotherapy

- Assuta: 930
- Bellinson: 2550
- Haddash: 2154
- Soroka: 980
- Rambam: 2151
- Sheba: 3000
- Sourasky: 1700
- Mean: 1923
Number of Patients Treated by Radiotherapy: Daily

Mean: 159
Sourasky: 170
Shiba: 230
Rambam: 207
Soroka: 85
Haddash: 150
Bellinson: 176
Assuta: 100
Number of Patients Treated Yearly by Radiotherapy

15,388 patients received XRT yearly
641 patients / Linear accelerator
The Number of Patients Treated by Radiotherapy by Medical Physics

- Mean: 286
- Sourasky: 170
- Shiba: 428
- Rambam: 307
- Soroka: 326
- Haddash: 331
- Bellinson: 255
- Assuta: 265
Number of patients Treated by Radiotherapy / Radiation Technician

<table>
<thead>
<tr>
<th>Facility</th>
<th>Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assuta</td>
<td>85</td>
</tr>
<tr>
<td>Bellinson</td>
<td>102</td>
</tr>
<tr>
<td>Haddash</td>
<td>143</td>
</tr>
<tr>
<td>Soroka</td>
<td>98</td>
</tr>
<tr>
<td>Rambam</td>
<td>113</td>
</tr>
<tr>
<td>Sheba</td>
<td>117</td>
</tr>
<tr>
<td>Sourasky</td>
<td>85</td>
</tr>
<tr>
<td>Mean</td>
<td>107</td>
</tr>
</tbody>
</table>
Israel Oncology  2014

Collaboration

**EORTC:** European Organization for Research and Treatment of Cancer

**RTOG:** Radiotherapy Oncology Group
Thank you for this interesting meeting invited

Now is the time
Establishment of a regional oncology organization