Electrophysiology and pacing in Lithuania

Germanas Marinskis
Pacing and EP centres in Lithuania (population: 3.5 million)

- Vilnius University hospital: 47%
- Kaunas Med. University Hospital: 34%
- Panevėžys district hospital: 19%
- Klaipėda Seamen’s hospital: 19%

PM implants since 2008
General information

- Population of Lithuania: 3.5 million (3,56 in 2007)
- 4 centres for pacemaker implantation (12 doctors)
- 3 centres for ICD implantation (9 doctors)
- 3 centres for electrophysiology/ablation (10 doctors)
- 7 doctors implanting CRT devices
- 5 doctors performing AF ablation
Distribution of pacing modes

New implants

- DDD/R
- VDD/R
- VVI/R
- AAI/R

Table:

<table>
<thead>
<tr>
<th>Year</th>
<th>AAI/R</th>
<th>VVI/R</th>
<th>VDD/R</th>
<th>DDD/R</th>
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<tr>
<td>2008</td>
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Implant numbers per centre

CRT-P devices

<table>
<thead>
<tr>
<th>Year</th>
<th>Vilnius</th>
<th>Kaunas</th>
<th>Klaipėda</th>
<th>Total</th>
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<td>7</td>
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Total          | 2      | 5      | 3      | 55    |
Implant numbers per centre

ICDs

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<th>2007</th>
<th>2008</th>
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<td>19</td>
<td>15</td>
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<td>33</td>
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Vilnius | Kaunas | Klaipėda

CRT-D devices
Reimbursement for pacing and ICD in Lithuania

- Up to 2009, ICD and pacemakers have been purchased via Patient state fund tenders, with budget split per each hospital.
- Starting from 2009, tenders have been de-centralized, and per-case payment has been introduced, with tenders organized by hospitals.
Reimbursement for pacing and ICD in Lithuania

The following device procedures are reimbursed:

- Single-chamber pacemakers
- Double chamber pacemakers
- ICD for secondary prevention
- ICD for primary prevention in some high-risk cases
- Implantable loop ECG recorders
- CRT-P devices

- CRT-D devices are reimbursed on request
Catheter ablation procedures

Total number

More mini-invasive surgical ablation procedures for AF
Reimbursement for electrophysiology procedures in Lithuania

The following types of procedures are included:

- Invasive electrophysiological study
- Catheter ablation procedure (simple)
- Catheter ablation procedure with transseptal puncture (and intracardiac ultrasound)
- Catheter ablation procedure with 3D mapping
Concluding remarks

The total number of pacemaker implantations in Lithuania is comparable to other EU countries.

• There is a need to increase number of ICD implants.
• There is a need to increase number of CRT implants.
• The number of AF ablation procedures and other complex procedures requiring 3D-mapping is still low.

Limitations mostly are due to insufficient financing.