Developing CMR in your region – the Baltic experience

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Disclosures

• Nothing to declare
CVD in Europe: update 2016

- CVD remains the most common cause of death worldwide caused 17.3 million deaths globally
- CVD causes more than 4 million deaths each year across the Europe, accounting for 45% of all deaths

Townsend N et al, Eur Heart J 2016
CVD in Europe: update 2016

Men

[Pie chart showing cardiovascular disease (40%), coronary heart disease (19%), stroke (9%), other CVD (12%), injuries and poisoning (7%), respiratory disease (6%), other cancer (4%), stomach cancer (3%), colorectal cancer (2%), and lung cancer (1%) as causes of death.]

Women

[Pie chart showing cardiovascular disease (49%), coronary heart disease (22%), stroke (14%), injuries and poisoning (6%), other CVD (15%), respiratory disease (6%), breast cancer (3%), colorectal cancer (2%), other cancer (11%), and stomach cancer (1%) as causes of death.]
CVD in Europe: update 2016

Townsend N et al, Eur Heart J 2016
Baltic region – Northern Europe
CMR Centers: Availability

• Four (Tallinn, Tartu)
• Two (Riga)
• Three (Kaunas, Klaipeda, Vilnius)
CMR Centers: Equipment - YES

- Anatomical sequences (BB T1-W TSE)
- Cine sequences (bSSFP, GRE)
- Edema imaging (BB T2-W TSE with/without FS)
- Flow sequences (Phase contrast)
- Contrast enhanced MRA
- First-pass perfusion (Adenosine mainly)
- Early/late gadolinium enhancement
- Real-time cine imaging
CMR Centers: Equipment - NO

- Alternative 3D LGE
- Parametric mapping (T1, T2, ECV)
- 4D Flow sequences
- Fat-water separated imaging
- Coronary sequences

- Advanced analysis software is lacking!
CMR Centers: Certified Experts

- None
- None
- Five 2\textsuperscript{nd} level expert
Hospital reimbursement

• Yes
• Yes
• Yes
Average waiting time

- 1-30 days
- >60 days
- >30 days
Conclusions

• Baltic region is evolving in CMR, however much efforts are still need to reach Western Europe countries level

• More well trained and certified experts are necessary to guarantee accurate assessment and interpretation of the CMR studies

• Financial support (from the government, hospitals, vendors), collaboration with experienced centers is required to increase level of confidence
Founded in May, 2016
Thank you
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