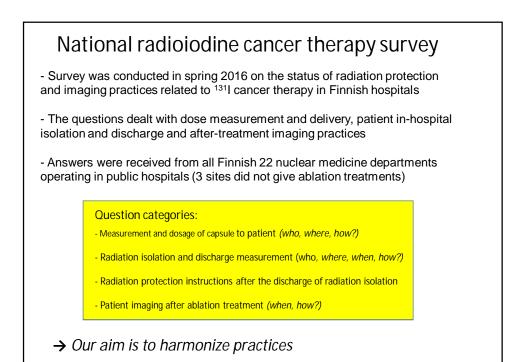
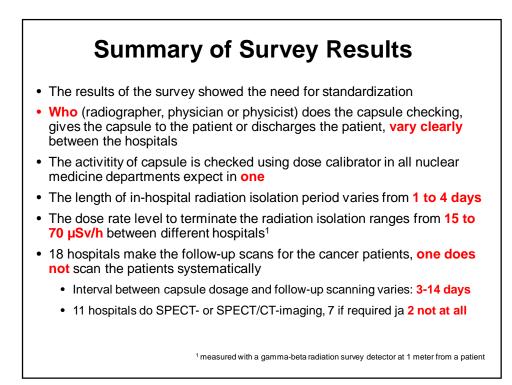


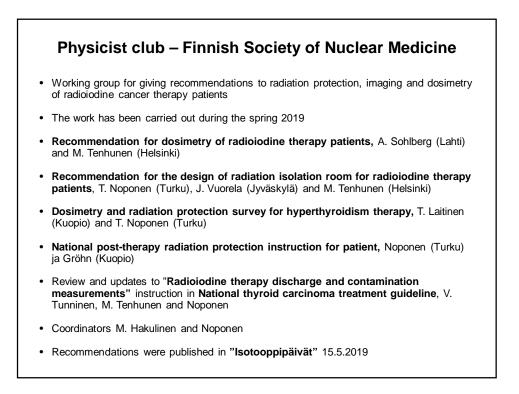
Some radioiodine activities during the years Local radiation protection training during years 2012-2016 Winter-spring 2016: national survey for nuclear medicine departments ٠ Finnish Society for Oncology: Training days, 29.–30.1.2016, Turku ٠ Finnish Society of Nuclear Medicine, Annual meeting, 28.4.2016, Pori • In May 2016 Hanna Mäenpää established a national group to crease a guideline for thyroid carcinoma treatment, (also physicist Tenhunen and Noponen and Nikkinen (diagnostic radiology) participated) Several radiation isolation rooms were designed in Finnish hospitals during years 2016-2018 (in Lappeenranta, Jyväskylä and Kuopio) Radiopharmacy days (isolation room design), 28.9.2016, Helsinki • • EANM 2017, 21-25.10.2017, Wien Finnish Society of Nuclear Medicine, Annual meeting, 16.5.2018, Kuopio • STUK, Radiation protection days, 24.5.2018, Jyväskylä Finnish Society of Nuclear Medicine, Annual meeting, 15.5.2019, Lahti • NSFS, Nordic IRPA conference, 12.6.2019, Helsinki

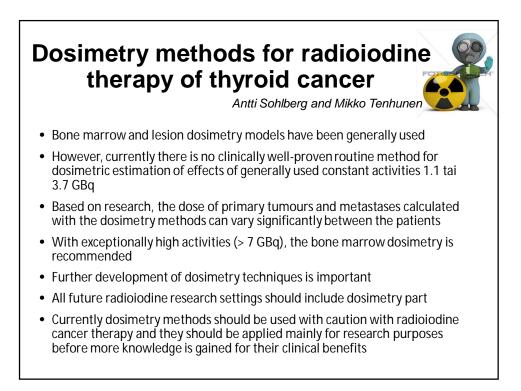


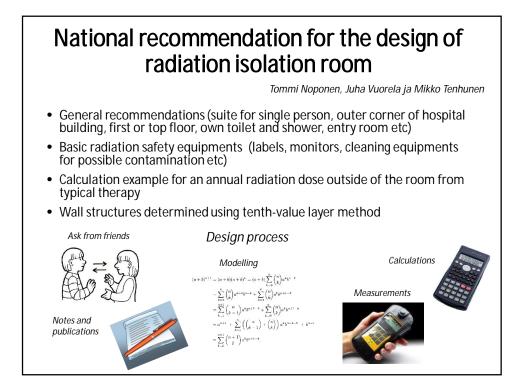












Determination of wall structure of radiation				
isolation room				

	TVL	Lead	Concrete	Wall structure (from inside)
100 patients	log ₁₀ (34,1) = 1,53	0,36 TVL ₁ = 4 mm	$0,64 \text{ TVL}_1 = 134 \text{ mm}$ $0,53 \text{ TVL}_2 = 74 \text{ mm}$	4 mm lead and ≈ 210 mm concrete
80 patients	log ₁₀ (34,1 × 0,8) = 1,44	0,27 TVL ₁ = 3 mm	$0,73 \text{ TVL}_{1}=153 \text{ mm}$ $0,44 \text{ TVL}_{2} = 62 \text{ mm}$	3 mm lead and ≈ 210 mm concrete
60 patients	log ₁₀ (34,1 x 0,6) = 1,31	0,18 TVL ₁ = 2 mm	$0,82 \text{ TVL}_1 = 172 \text{ mm}$ $0,31 \text{ TVL}_2 = 43 \text{ mm}$	2 mm lead and ≈ 210 mm concrete
40 patients	log ₁₀ (34,1 x 0,4) = 1,13	0,09 TVL ₁ = 1 mm	0,91 TVL ₁ = 191 mm 0,13 TVL ₂ = 18 mm	1 mm lead and ≈ 210 mm concrete
20 patients	log ₁₀ (34,1 x 0,2) = 0,83	-	0,83 TVL ₁ = 174 mm	175 mm concrete
TVL = tenth-value layer meth				

