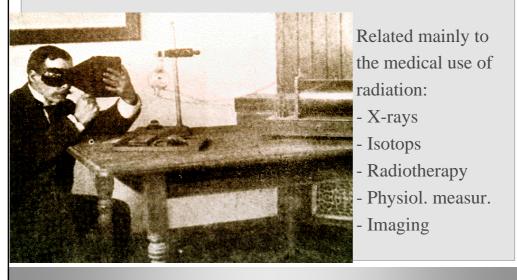
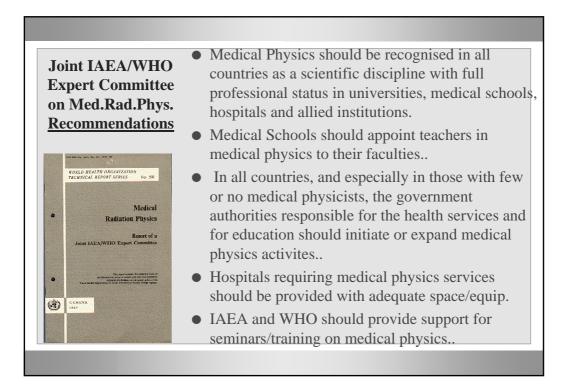
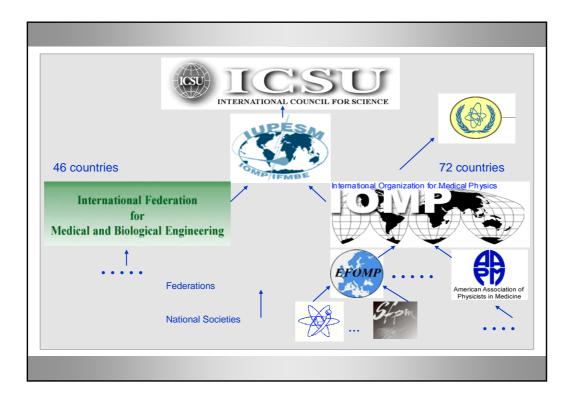


Medical Physics after 1896

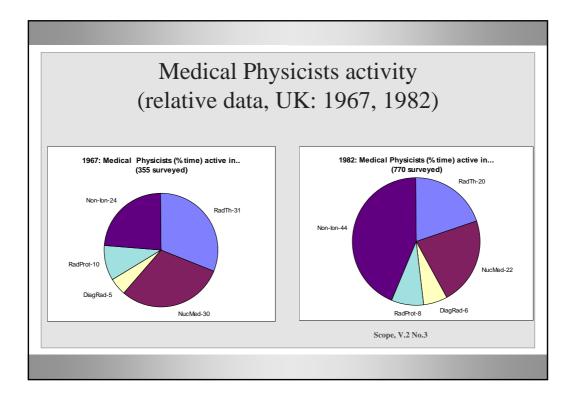


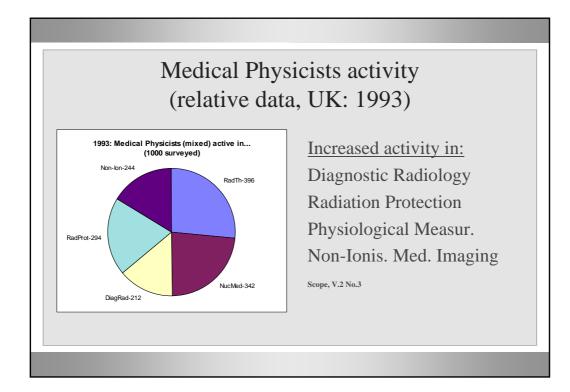


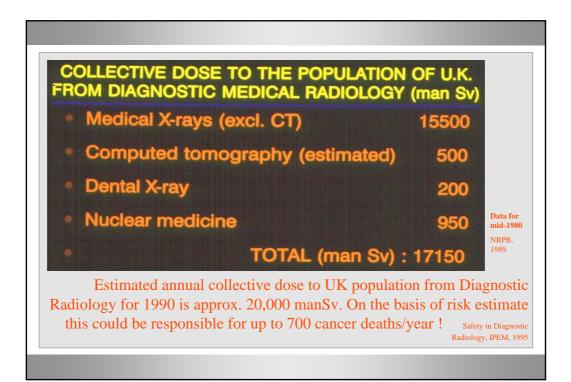


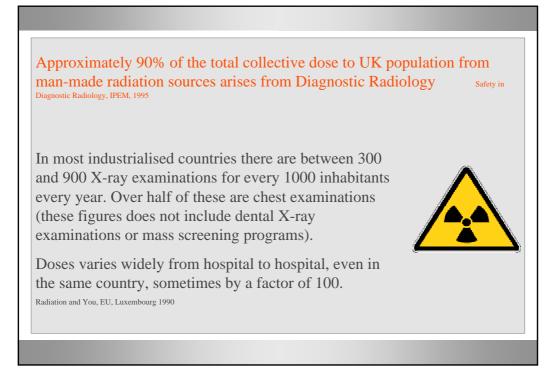
Minimum staffing of the N	Iedical Physics support of:
Radiotherapy	Nuclear Medicine
1 high energy accelerator - 0.8	1 Gamma camera - 0.5
1 major item of equipment (simul.,Co	5000 exam. p.a 0.5
unit,Plan.sys) - 0.4	500 dynamic studies p.a 0.25
1000 new courses of treat. p.a. with	250 SPCET studies p.a 0.25
ext. beam therapy - 1.2	50 new courses of treat. p.a 0.25
100 new courses of treat. p.a.	
with brachytherapy - 0.25	Diagnostic Radiology
	Rad. Dept. with complex equip1
Academic commitments - 0.5	Rad.Dept. serving 500,000 pat1
Radiation Protection (Adviser) 1	(depending on the QA program)

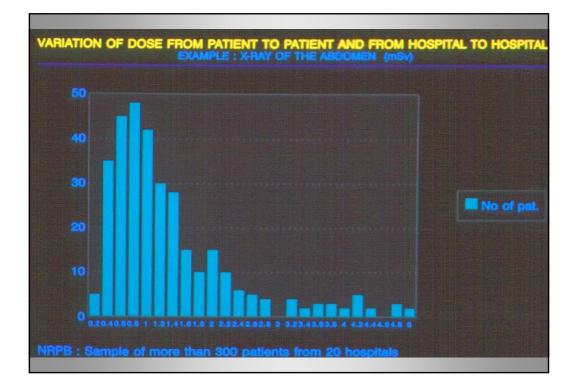
Number of qualified	Number of	<u>Total number of</u>
physicists at Dept.	Departments	qualified physicists
(exSweden,~10 mil)		
1 (at Central Hosp.)	13	13
2 - 7 (Central Hosp.)	10	42
7 - 9 (at Univ. Hosp.)	4	32
15-17 (Univ. Hosp.)	3	48
TOTAL	30	135 (+approx.110 n.q)
 (Total number - a Romania(~23 mil. number - approx. 	- 21 Public + 7 Private pprox 120 Med.Rad.P) - spread in many Ho 60 Med.Rad.Phys. + 1 t. approx.1200 Med.Ph	hys+30 others) sp. Dept. (Total 00 others)



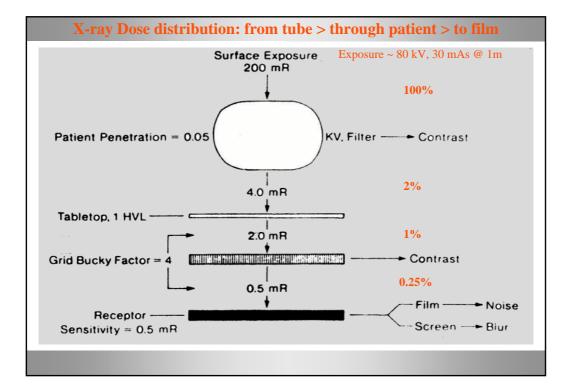












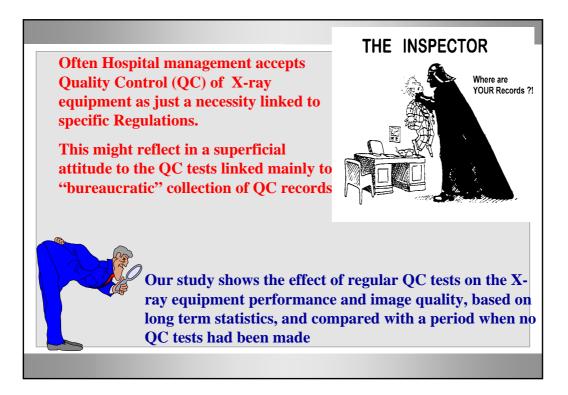
Revised radiation doses for typical X-ray examinations

B F Wall, D Hart, BJR, May **1997**, p.437-439

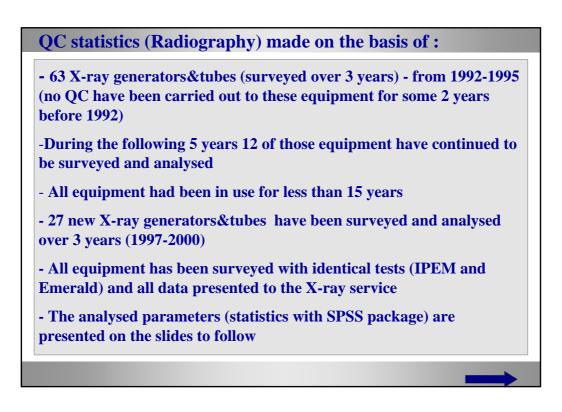
- For most non-CT procedures the new (1990-ties) typical effective doses to standard adult patient are between **25 and 60% lower** than the old ones (1980-ties);

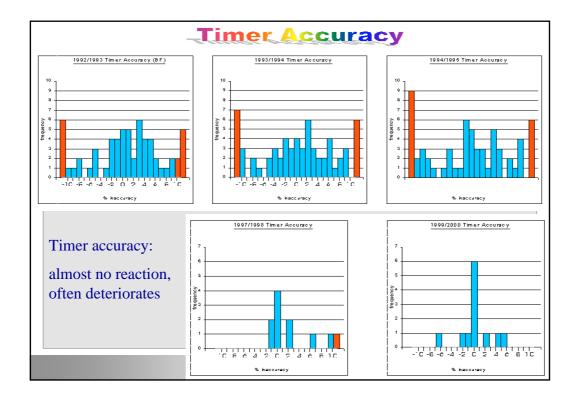
- For abdominal and pelvic CT examinations the doses are about 35% higher (while head CT are with lower dose than before);

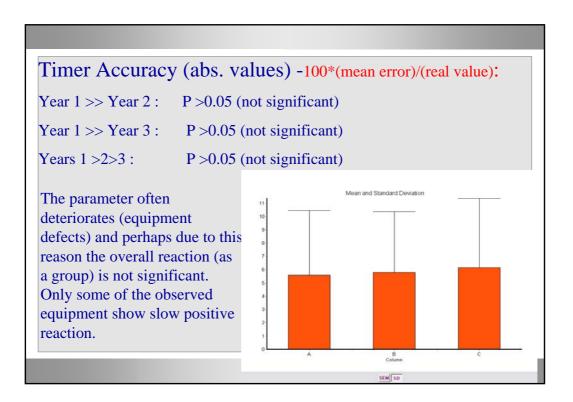
As an overall picture the collective effective dose in the UK has increased during late 90-ties, but large part of this is related to contrast examinations and CT examinations (these are ~4% of all examinations, but deliver ~40% of the collective dose)

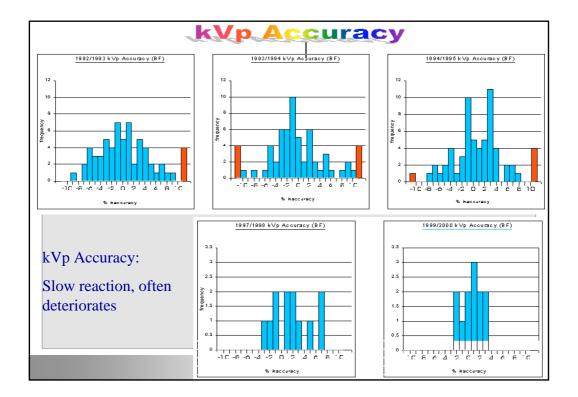


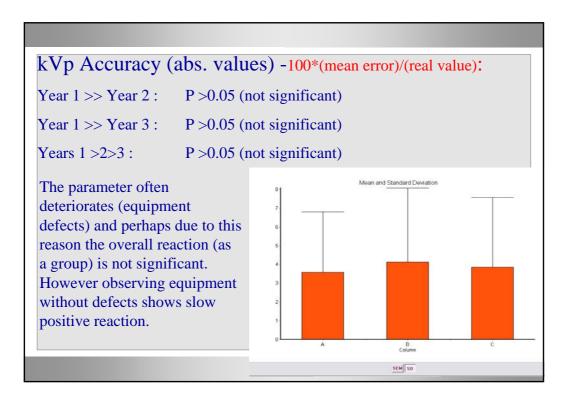
J K rkama Mees kV 0.51 62 0.86 83 1.37 104 1.95 123 0.40 50 0.88 73 1.45 88 1.32 111
(mQ ₄) Mees KV 0.51 62 0.86 83 1.31 104 1.95 123 0.40 50 0.88 73 1.45 88
0.86 83 1.31 104 1.95 123 0.40 50 0.88 73 1.45 88
1.31 104 1.95 123 0.40 50 0.88 73 1.45 88
1.95 123 0.40 50 0.88 73 1.45 88
0.40 50 0.88 73 1.45 88
1.6 8
1.92 111
0.50 82
0.91 83
0.16 80
1/2 8/7
2,85 90
0.18 83
3.82 83 7.87 83
0.99 HVLmm.of Al
0.96 1
0.73 2
0.58 3
(ALUE) 5
1

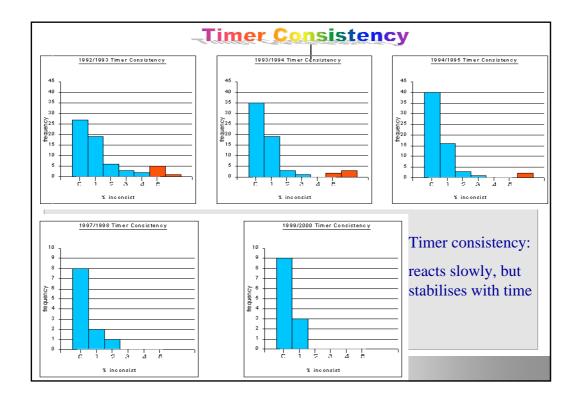


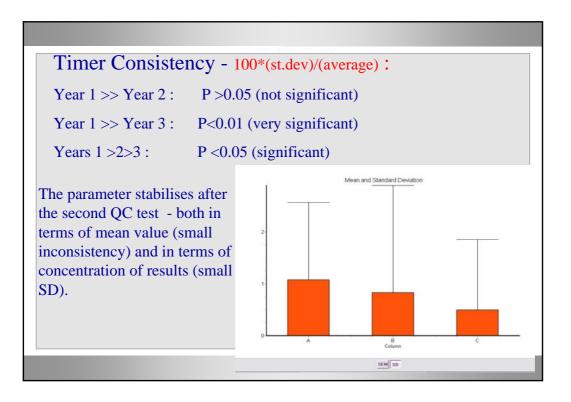


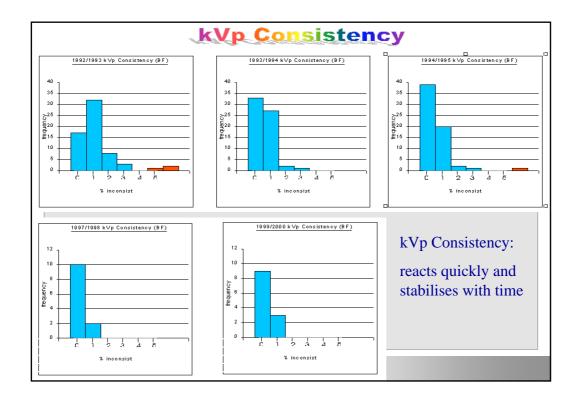


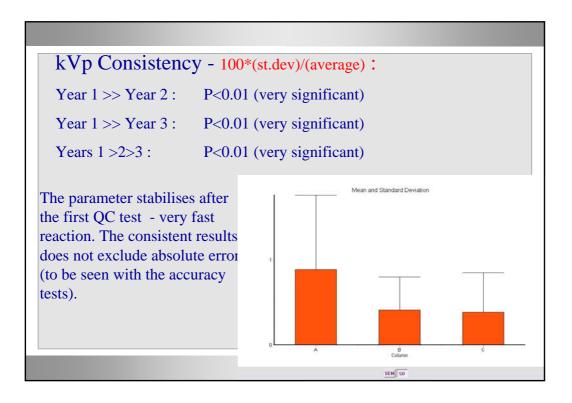


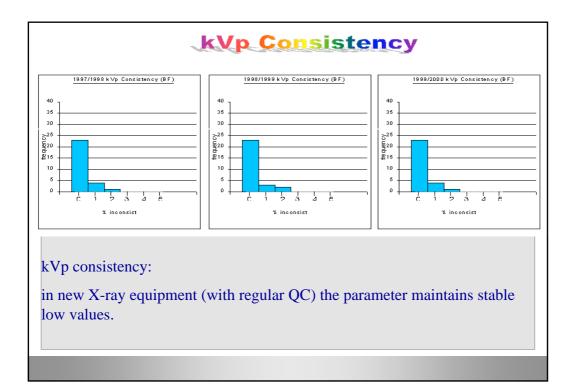


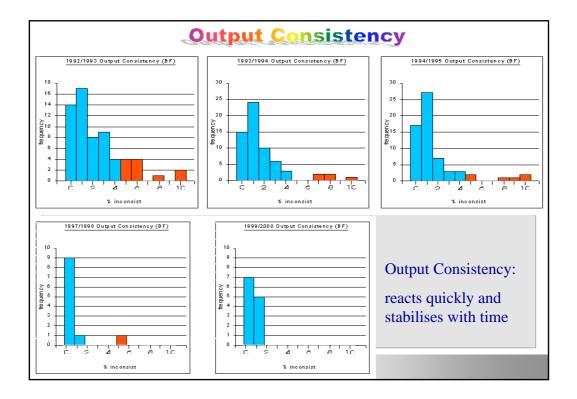


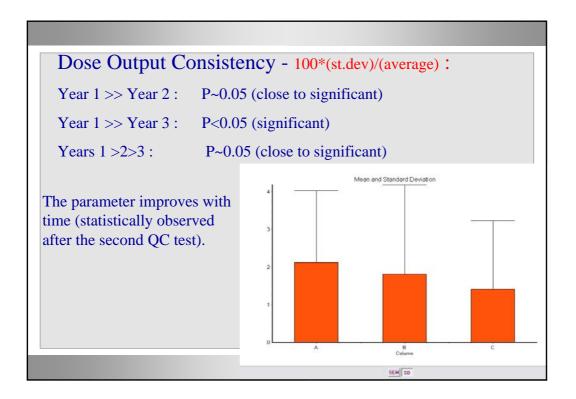


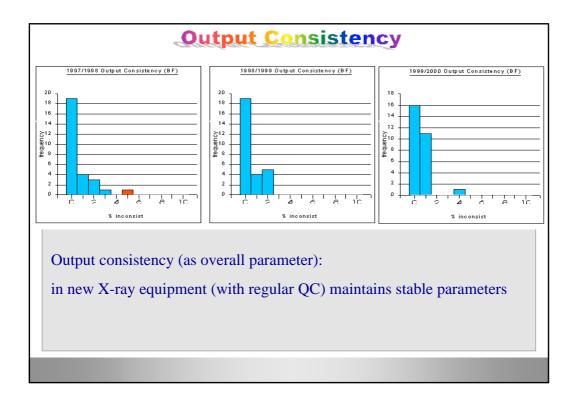


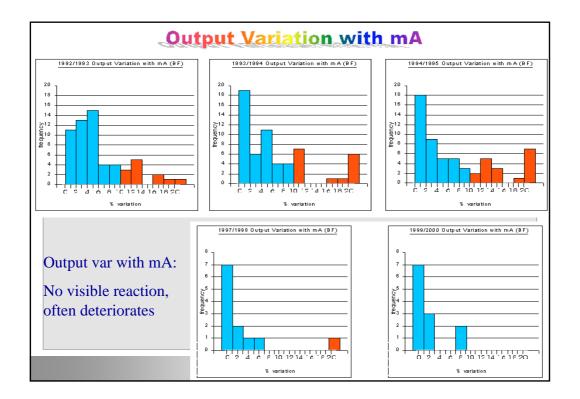


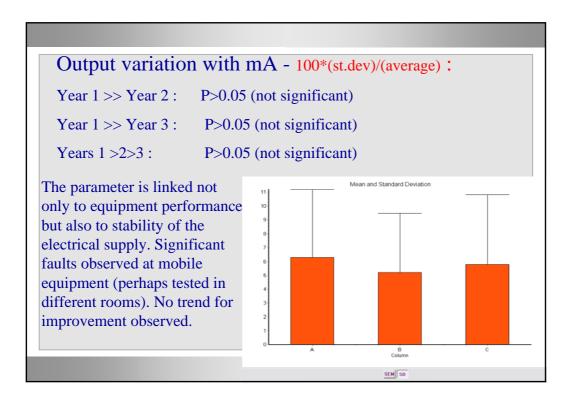


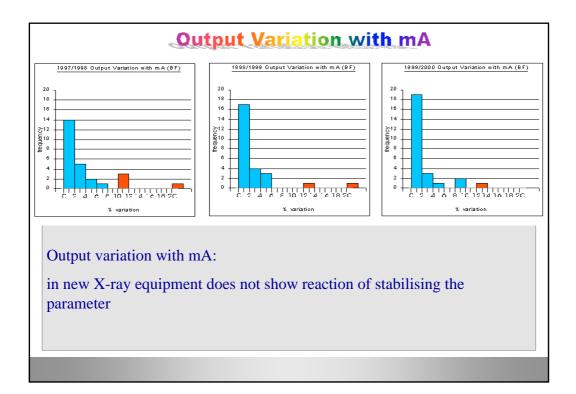


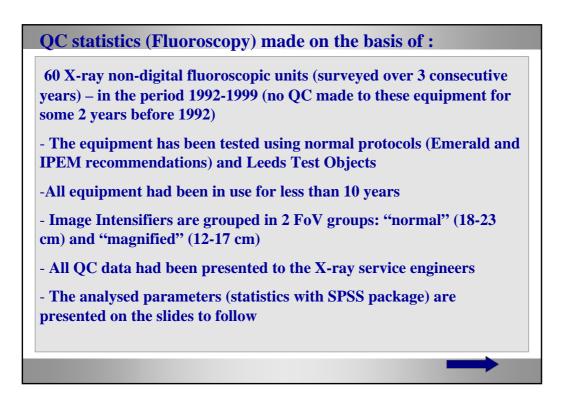


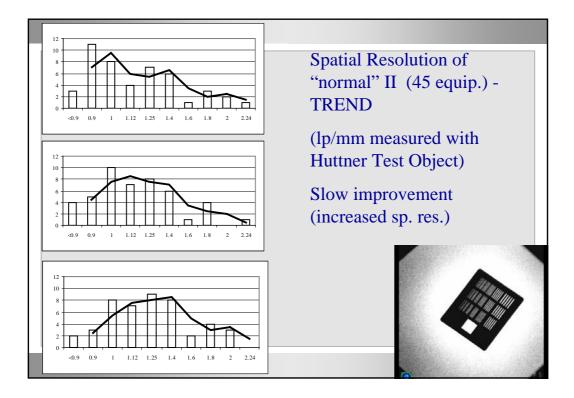


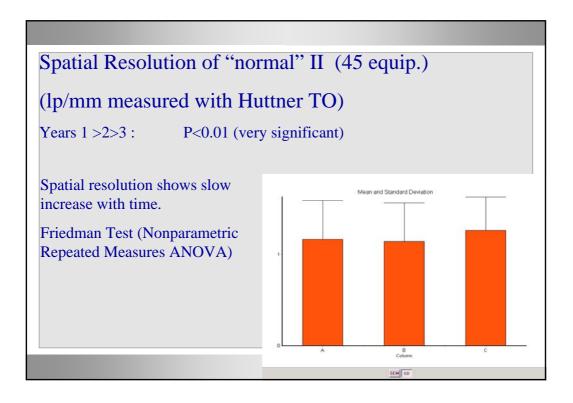


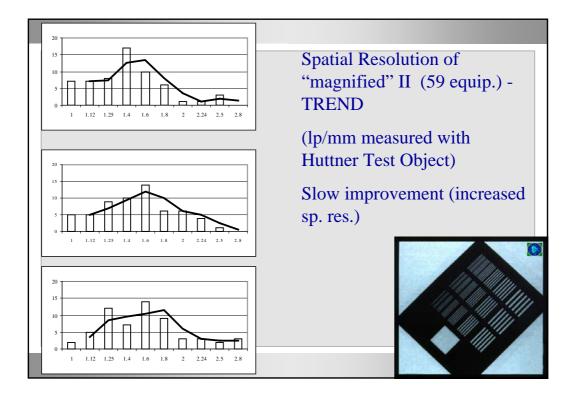


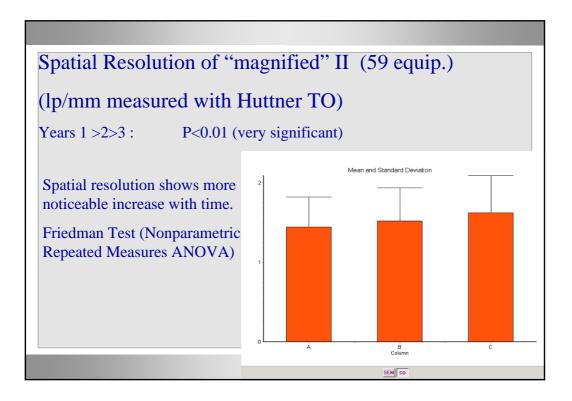


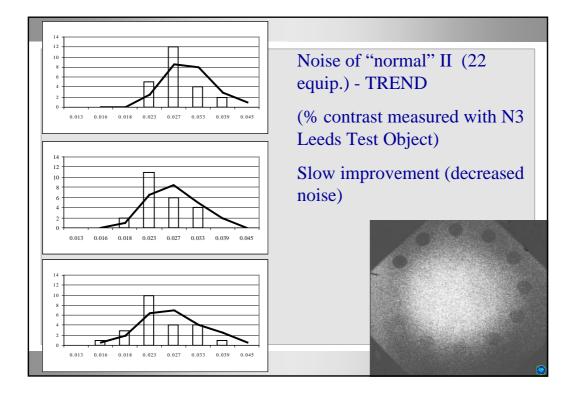


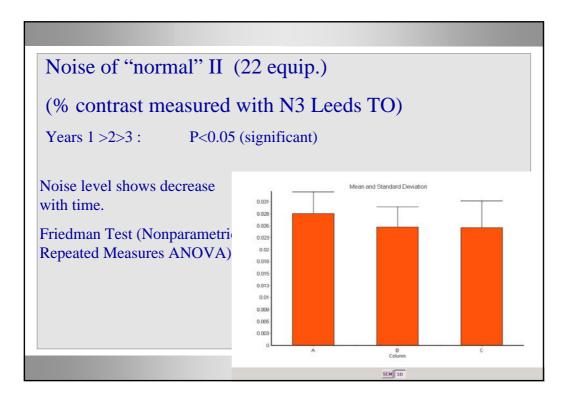


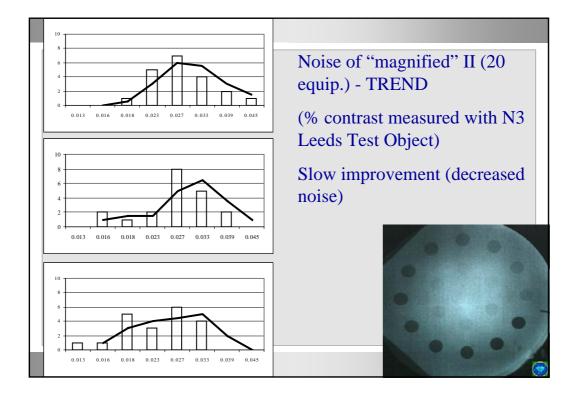


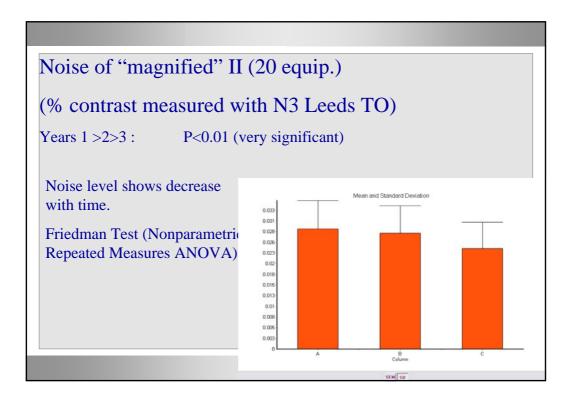


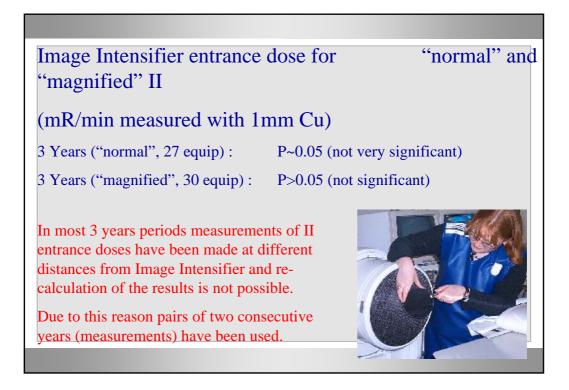


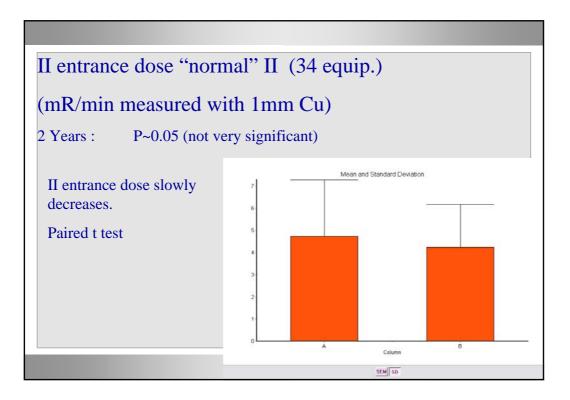


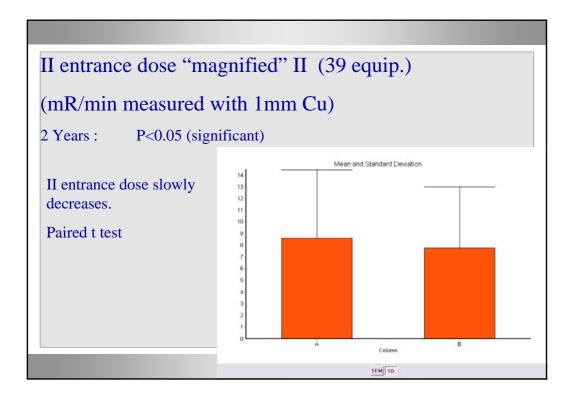


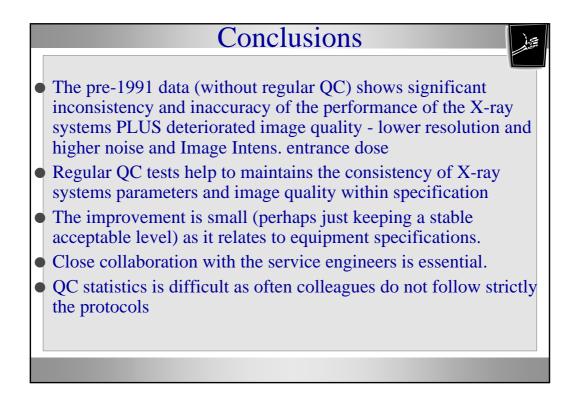














- IOMP - EFOMP - IAEA - AAPM -

Summer schools, courses, meetings with various national societies (including special sessions on QC)

International Medical Physics College ICTP, Tieste