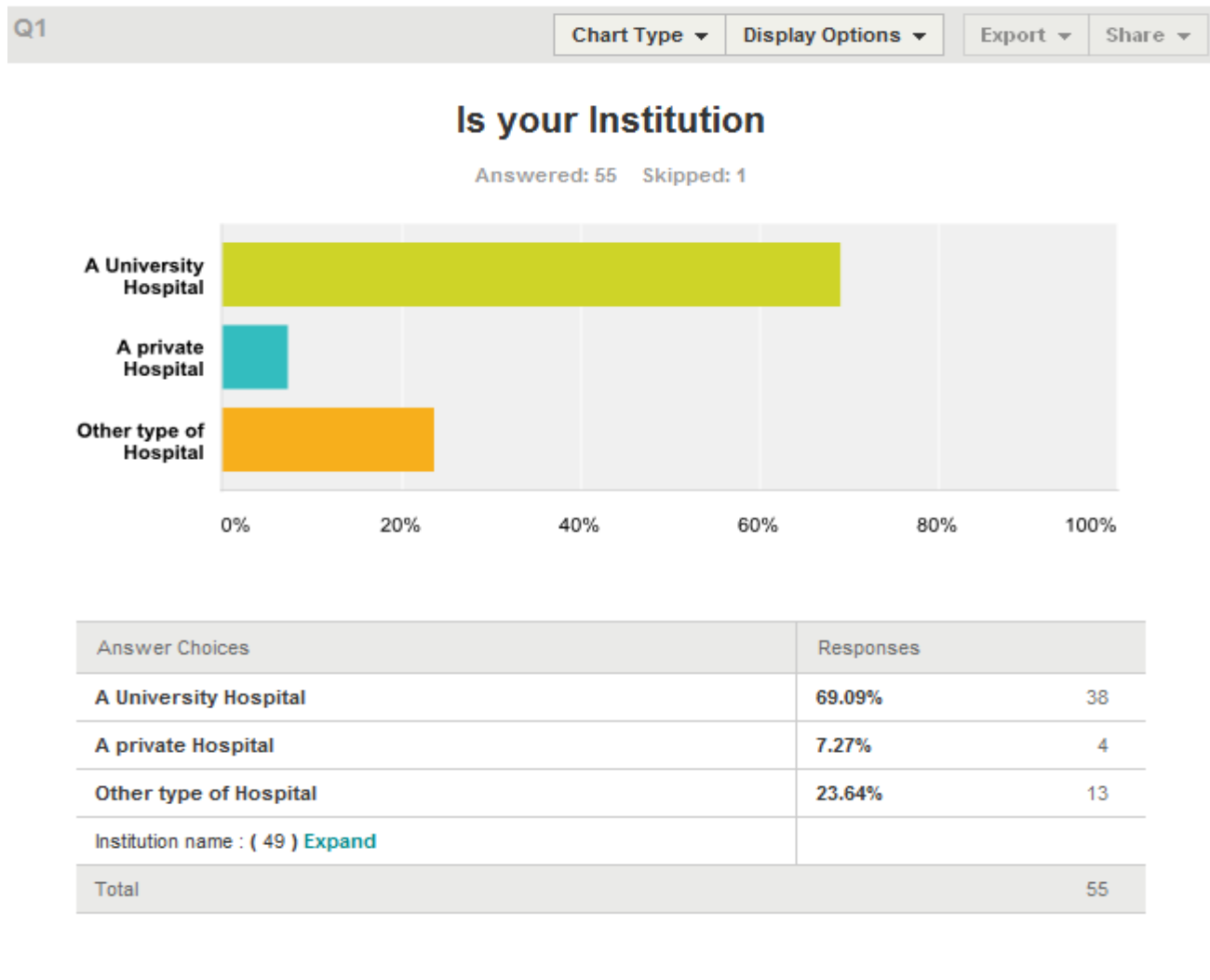


Survey analysis on X-Ray exposure for implanting and ablating physicians



Q5

Chart Type ▾

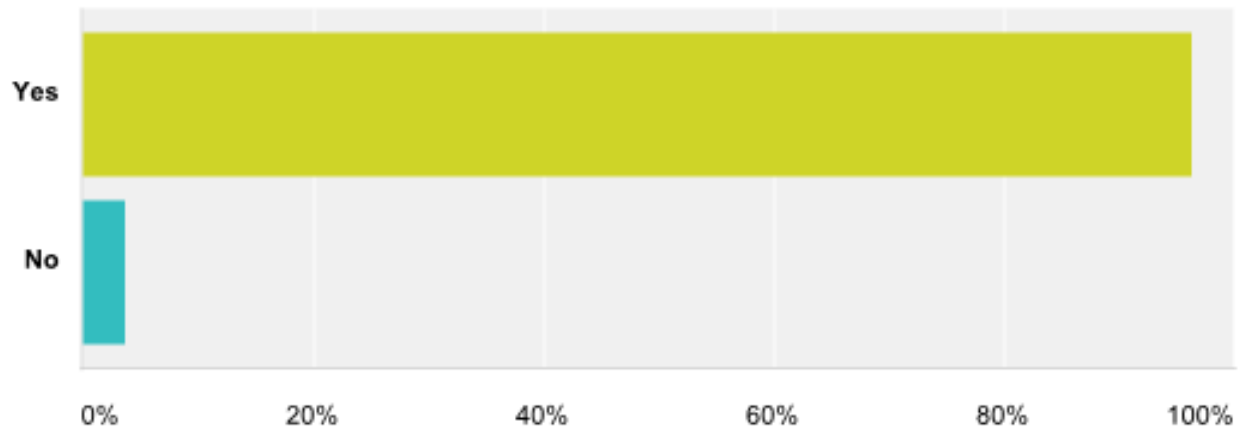
Display Options ▾

Export ▾

Share ▾

Would you be comfortable if we acknowledge your centre in the **Europace Journal** and on the **Website** ?

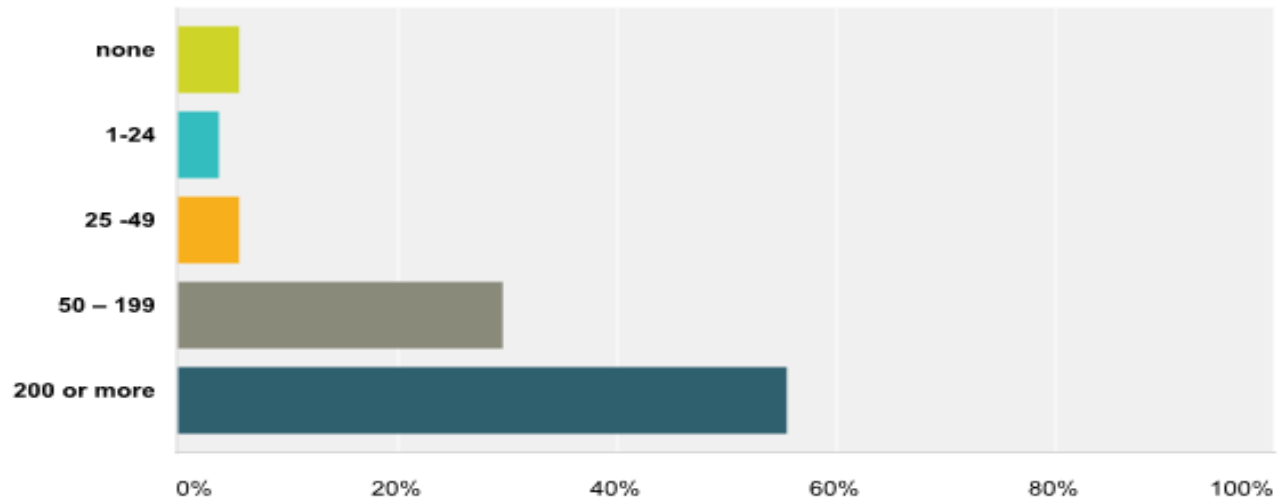
Answered: 55 Skipped: 1



Answer Choices	Responses	
Yes	96.36%	53
No	3.64%	2
Total		55

Total number of catheter ablations (all types of arrhythmia) at your institution last calendar year:

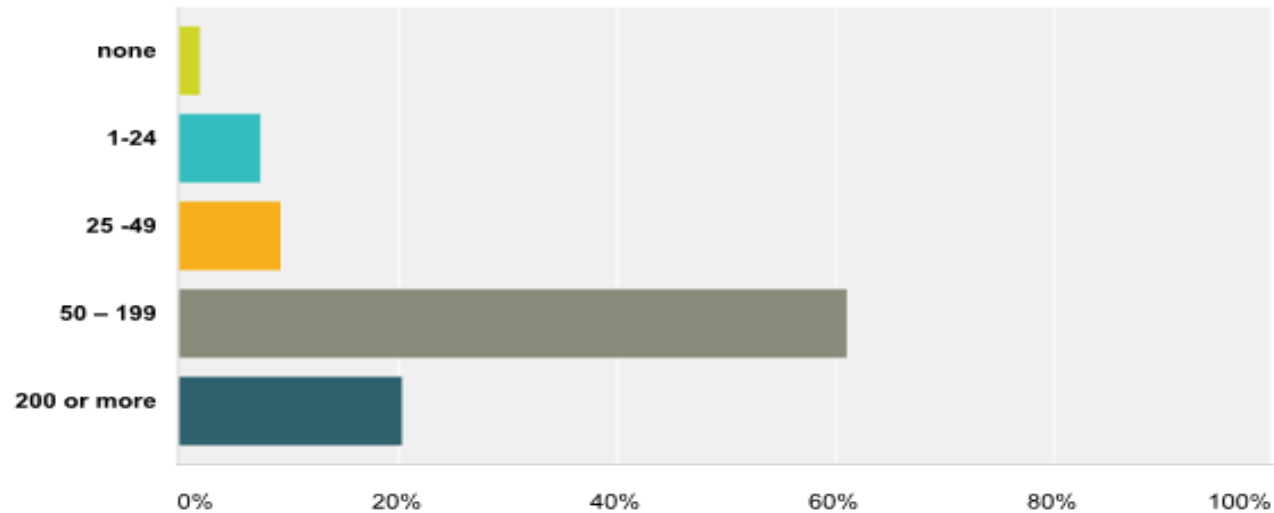
Answered: 54 Skipped: 2



Answer Choices	Responses
none	5.56% 3
1-24	3.70% 2
25 -49	5.56% 3
50 – 199	29.63% 16
200 or more	55.56% 30
Comments (2) Expand	
Total	54

Number of ICD implantations (including CRT -Ds) at your institution last calendar year :

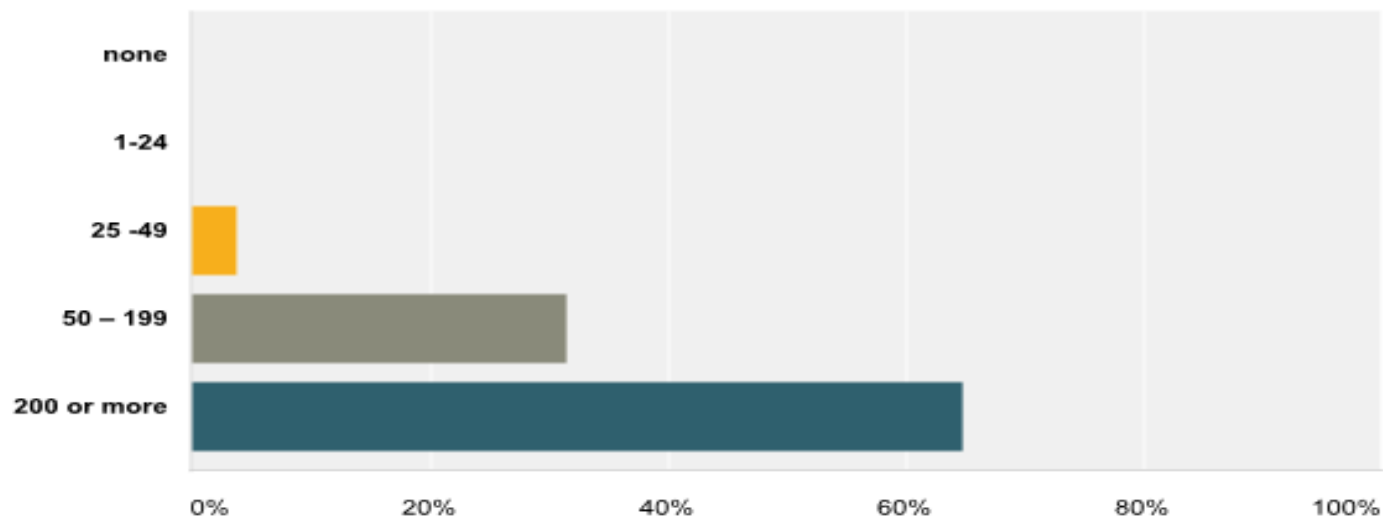
Answered: 54 Skipped: 2



Answer Choices	Responses
none	1.85% 1
1-24	7.41% 4
25-49	9.26% 5
50-199	61.11% 33
200 or more	20.37% 11
Comments (2) Expand	
Total	54

Number of pacemaker implantations (including CRT-Ps) at your institution last calendar year :

Answered: 54 Skipped: 2



Answer Choices	Responses
none	0% 0
1-24	0% 0
25-49	3.70% 2
50-199	31.48% 17
200 or more	64.81% 35
Comments (2) Expand	
Total	54

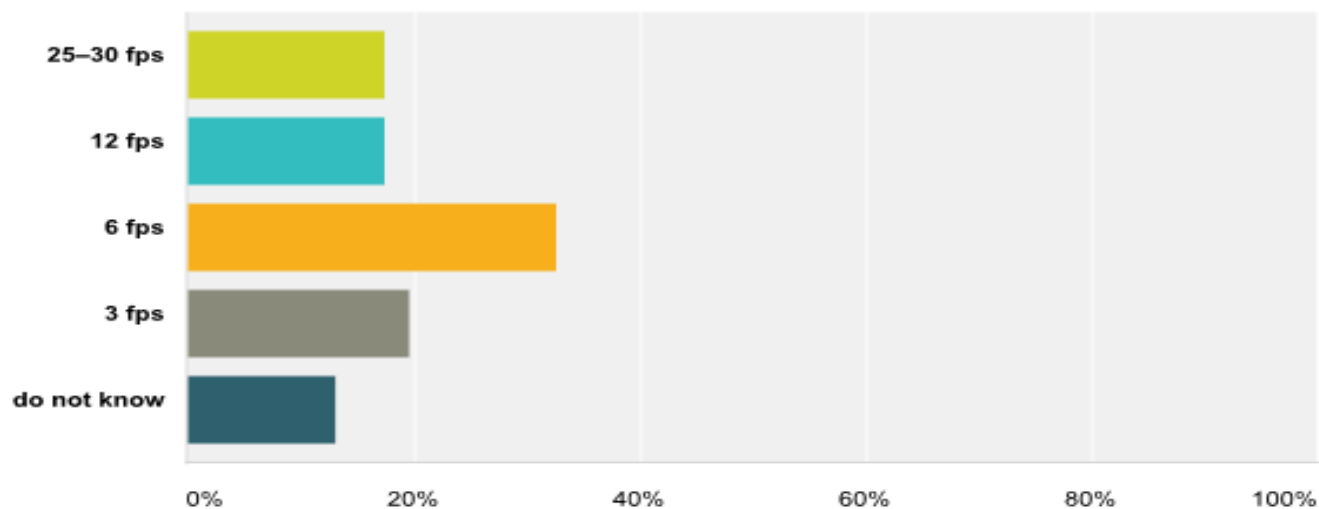
What kind of X-ray imaging device do you use for electrophysiologic procedures (manufacturer, model) – please mark several if applicable

Answered: 46 Skipped: 10

Answer Choices		Responses	
For Ablation : Manufacturer	Expand	89.13%	41
Model	Expand	52.17%	24
For Device Implantation: Manufacturer	Expand	86.96%	40
Model	Expand	52.17%	24
For Ablation : Biplane : Answer Yes - No	Expand	89.13%	41
For Device Implantation: Biplane : Answer Yes -No	Expand	91.30%	42
Total Respondents: 46			

What frame rate of pulsed fluoroscopy do you choose for ablation / electrophysiologic procedures?

Answered: 46 Skipped: 10



Answer Choices	Responses
25-30 fps	17.39% 8
12 fps	17.39% 8
6 fps	32.61% 15
3 fps	19.57% 9
do not know	13.04% 6
frame rate fixed – cannot be changed, and is: (4) Expand	
Total	46

Q11

Chart Type ▾

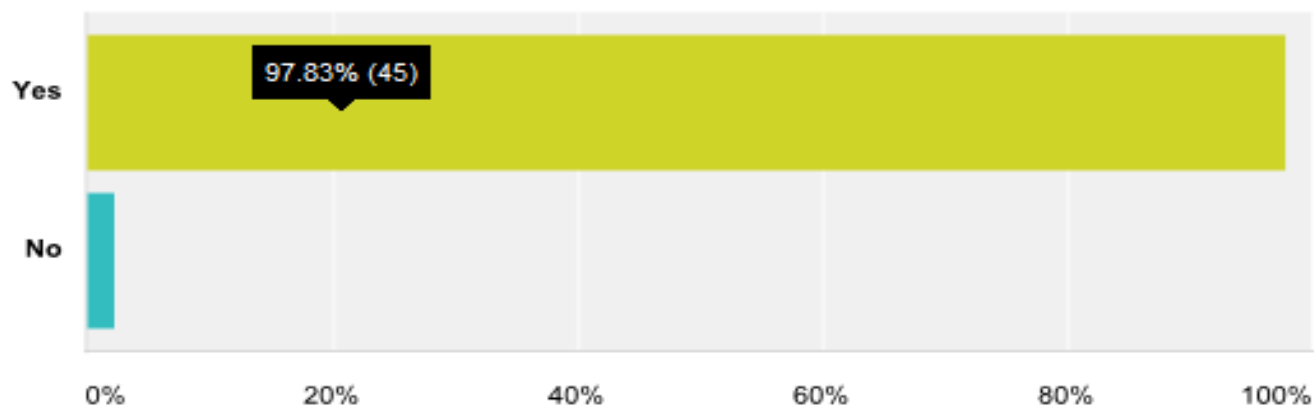
Display Options ▾

Export ▾

Share ▾

In your EP lab, are staff radiation doses measured individually for the personnel?

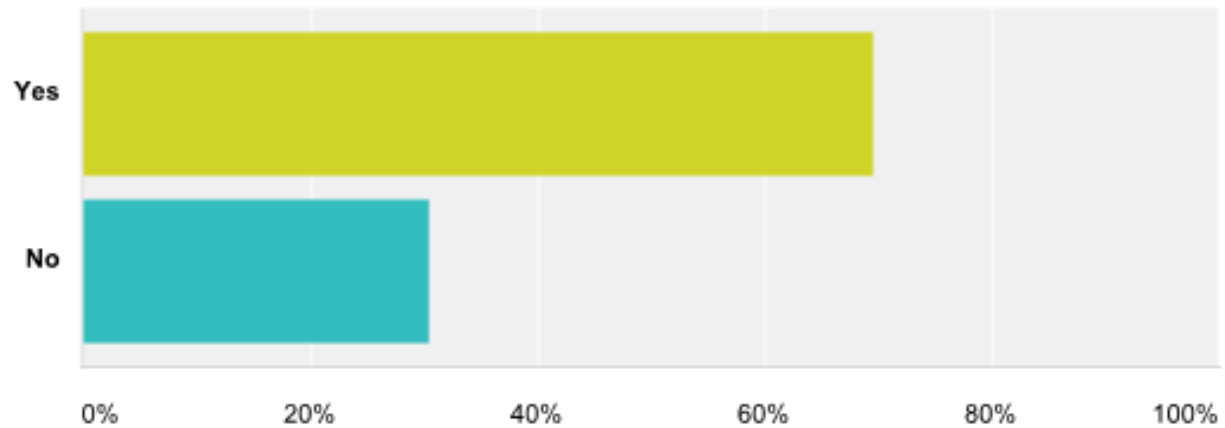
Answered: 46 Skipped: 10



Answer Choices	Responses	
Yes	97.83%	45
No	2.17%	1
Total		46

In your hospital, are yearly health check-ups mandatory for people working with X-ray in the cardiology department?

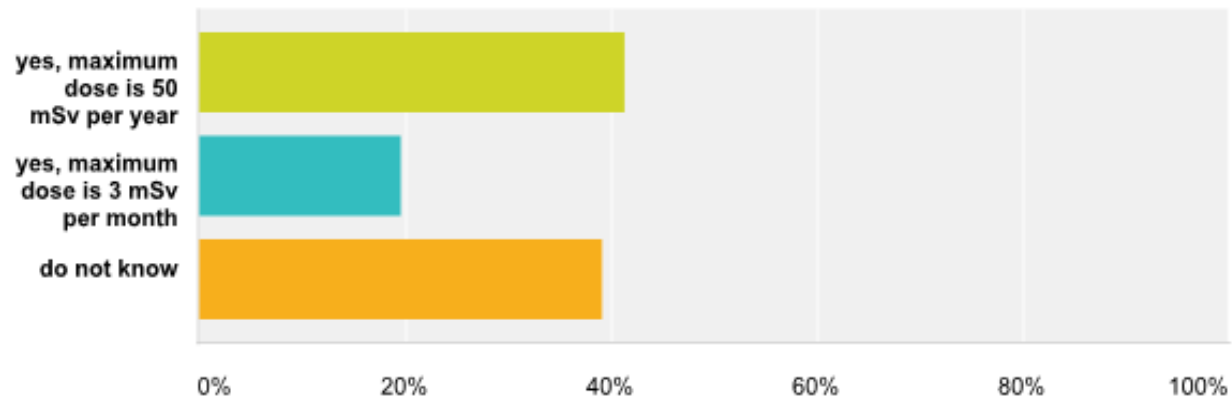
Answered: 46 Skipped: 10



Answer Choices	Responses
Yes	69.57% 32
No	30.43% 14
Total	46

Is there any monthly/yearly radiation exposure limit for implanting/ablation physicians?

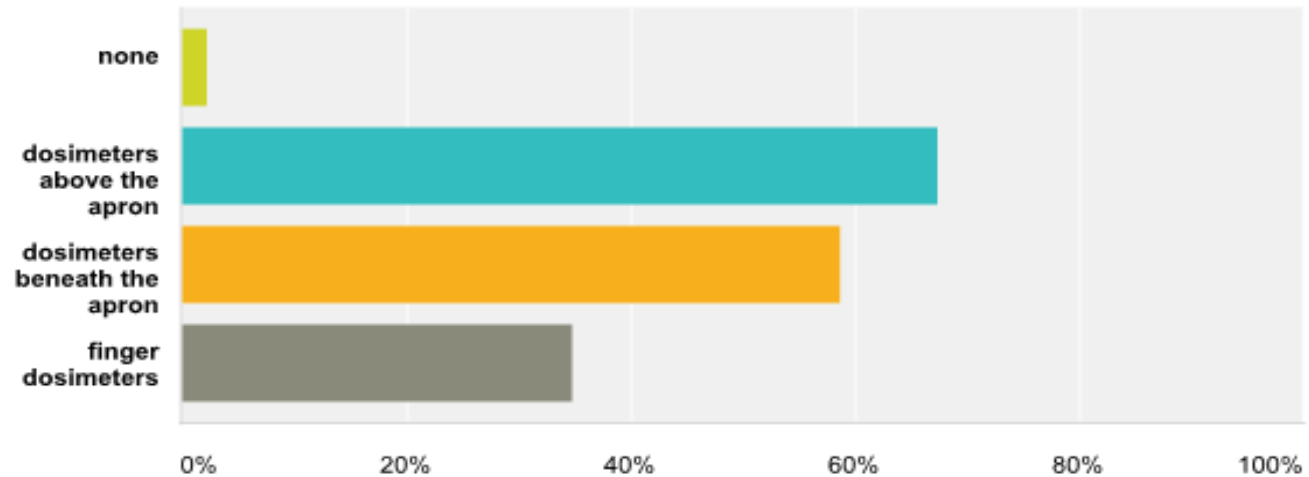
Answered: 46 Skipped: 10



Answer Choices	Responses	
yes, maximum dose is 50 mSv per year	41.30%	19
yes, maximum dose is 3 mSv per month	19.57%	9
do not know	39.13%	18
Other (please specify) (5) Expand		
Total		46

For operating/ablating physicians, what dosimeters are used for routine monitoring (multiple choice possible)?

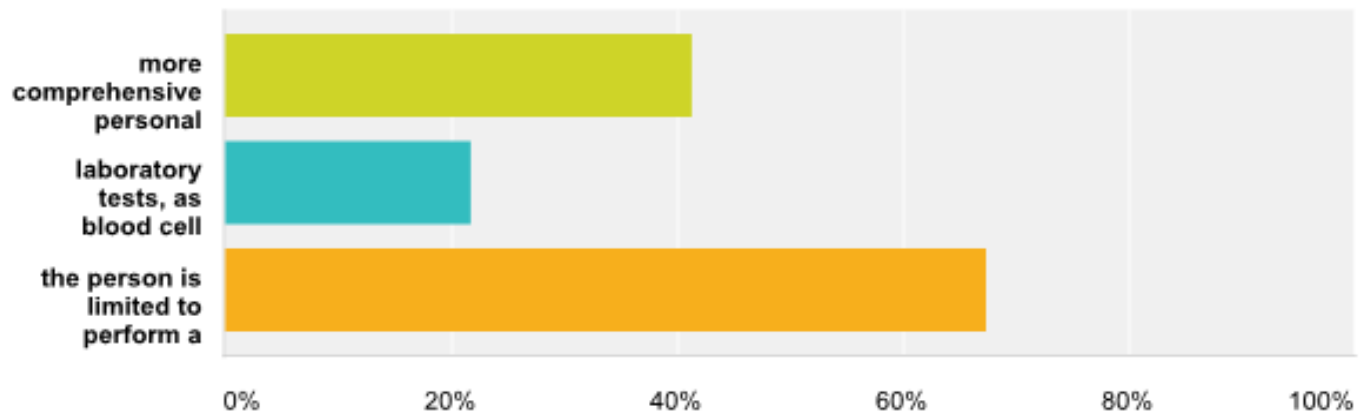
Answered: 46 Skipped: 10



Answer Choices	Responses
none	2.17% 1
dosimeters above the apron	67.39% 31
dosimeters beneath the apron	58.70% 27
finger dosimeters	34.78% 16
Total Respondents: 46	

If the personnel exceeds monthly limit of radiation, what measures are taken (multiple answers possible)?

Answered: 46 Skipped: 10



Answer Choices	Responses
more comprehensive personal measurements are performed	41.30% 19
laboratory tests, as blood cell count, need to be performed	21.74% 10
the person is limited to perform a certain number of procedures	67.39% 31

Total Respondents: 46

Q16

Chart Type ▾

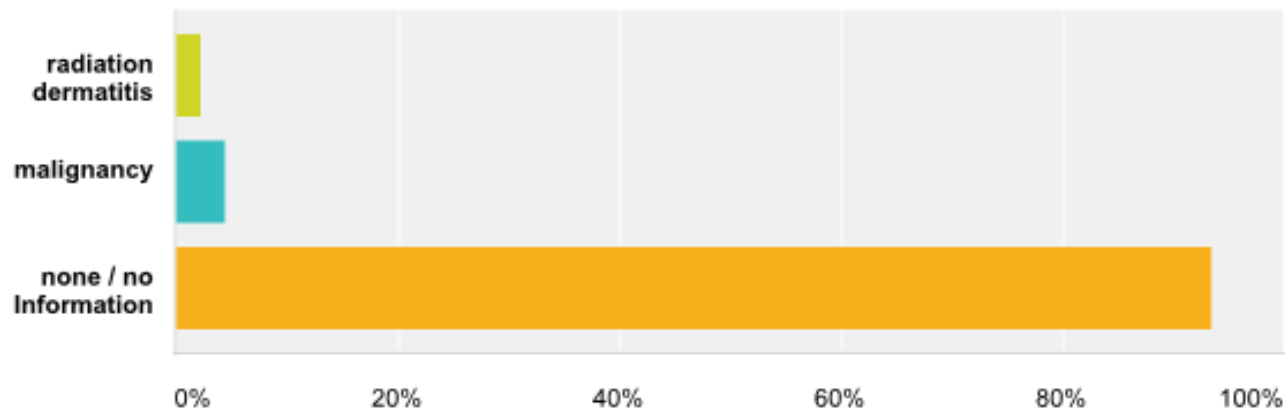
Display Options ▾

Export ▾

Share ▾

Did someone of your electrophysiology colleagues have suffered illness probably attributable to occupational radiation?

Answered: 46 Skipped: 10



Answer Choices	Responses
radiation dermatitis	2.17% 1
malignancy	4.35% 2
none / no information	93.48% 43

Total Respondents: 46

Q17

Chart Type ▾

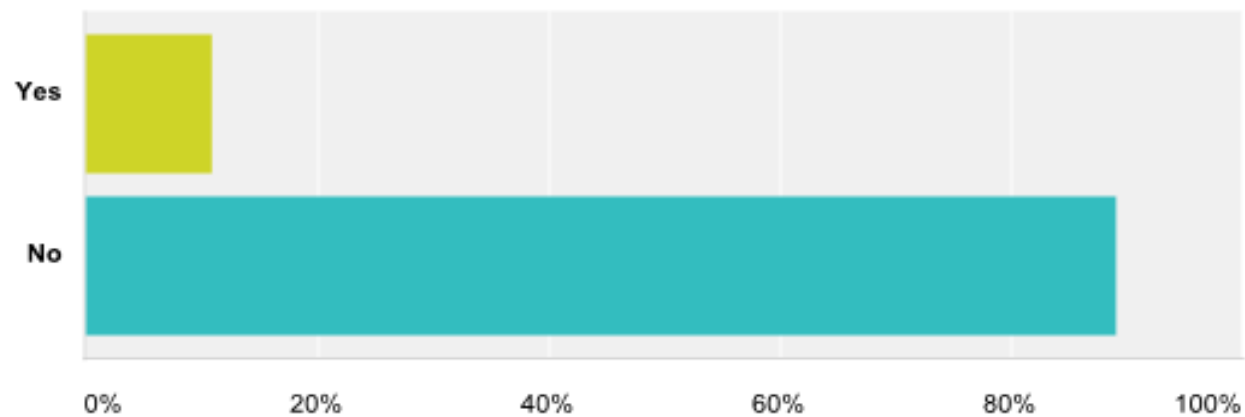
Display Options ▾

Export ▾

Share ▾

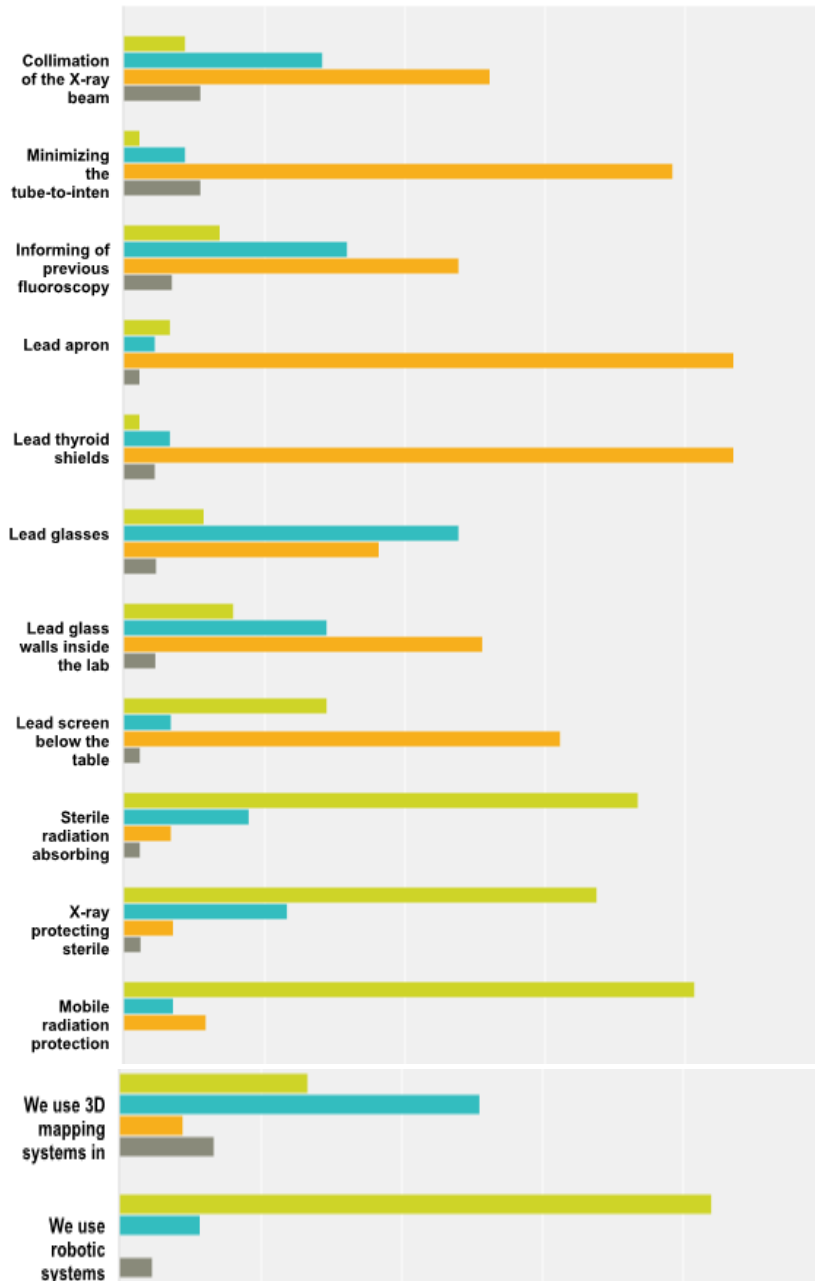
Did some of your patients suffer from the radiation dermatitis after electrophysiology procedure ?

Answered: 46 Skipped: 10



Answer Choices	Responses	
Yes	10.87%	5
No	89.13%	41
Total		46

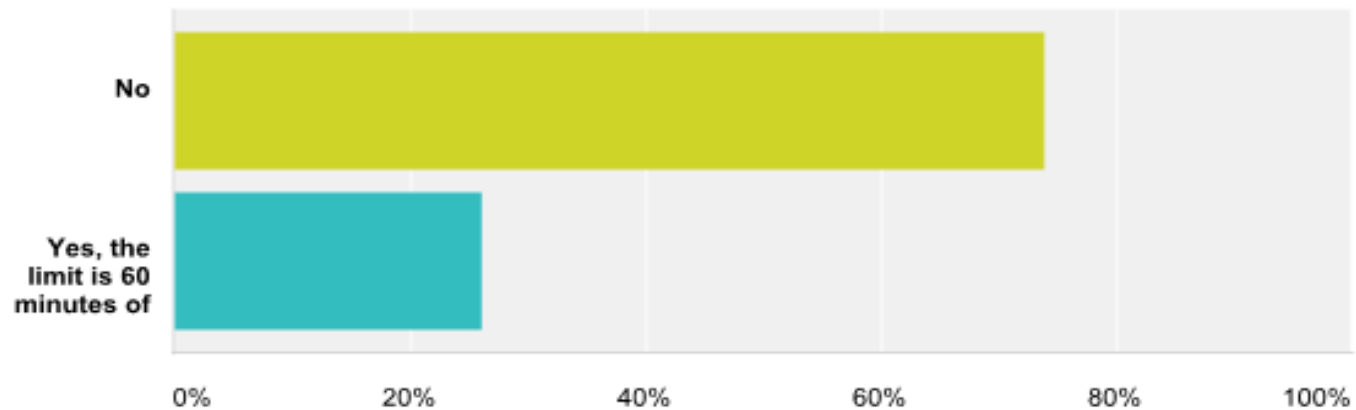
What kind of safety measures do you use to minimize radiation of the operating/ablating physician?



	Never	Sometimes	Always	Often	Total
Collimation of the X-ray beam (narrowing the diaphragm)	8.70% 4	28.26% 13	52.17% 24	10.87% 5	46
Minimizing the tube-to-intensifier distance	2.17% 1	8.70% 4	78.26% 36	10.87% 5	46
Informing of previous fluoroscopy times	13.64% 6	31.82% 14	47.73% 21	6.82% 3	44
Lead apron	6.52% 3	4.35% 2	86.96% 40	2.17% 1	46
Lead thyroid shields	2.17% 1	6.52% 3	86.96% 40	4.35% 2	46
Lead glasses	11.36% 5	47.73% 21	36.36% 16	4.55% 2	44
Lead glass walls inside the lab	15.56% 7	28.89% 13	51.11% 23	4.44% 2	45
Lead screen below the table	28.89% 13	6.67% 3	62.22% 28	2.22% 1	45
Sterile radiation absorbing pads placed near (around) the device pocket incision	73.33% 33	17.78% 8	6.67% 3	2.22% 1	45
X-ray protecting sterile gloves	67.44% 29	23.26% 10	6.98% 3	2.33% 1	43
Mobile radiation protection cabine (e.g. CathPax)?	81.40% 35	6.98% 3	11.63% 5	0% 0	43
We use 3D mapping systems in routine cases also to minimize radiation	26.67% 12	51.11% 23	8.89% 4	13.33% 6	45
We use robotic systems (Stereotaxis, Hansen) in order to minimize radiation	84.09% 37	11.36% 5	0% 0	4.55% 2	44

Do you use the upper limit of the procedure duration and lead placement attempts when implanting CRT devices?

Answered: 46 Skipped: 10



Answer Choices	Responses
No	73.91% 34
Yes, the limit is 60 minutes of fluoroscopy or 4 hours of total procedure duration	26.09% 12
Other (comments) (2) Expand	
Total	46

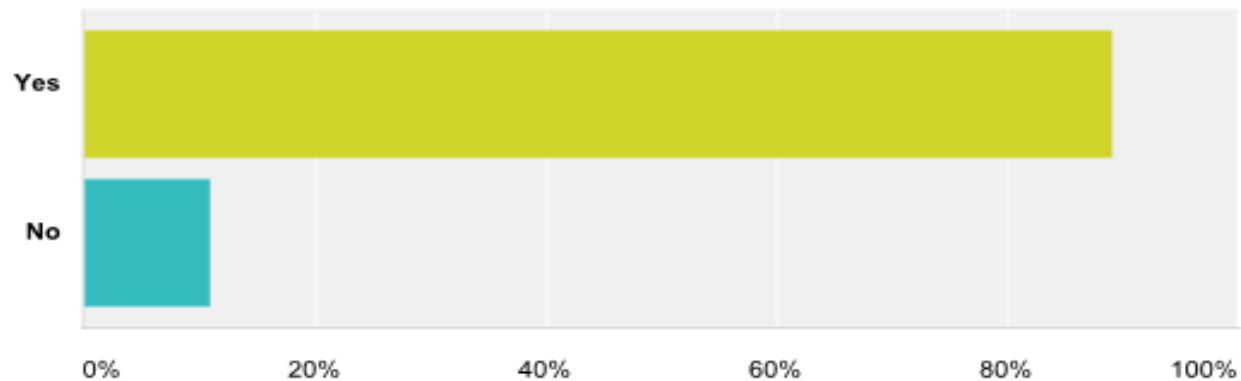
Do you use upper limit of fluoroscopy duration for catheter ablation procedure?

Answered: 46 Skipped: 10

Answer Choices		Responses	
No	Expand	82.61%	38
Yes, and the limit is ... minutes	Expand	15.22%	7
Yes, and the limit is ... mSv for the patient	Expand	2.17%	1
Yes, and the limit is ... mSv for the physician		0%	0
Total Respondents: 46			

Would you like to have your contact data published by EHRA (website, etc)? (Email addresses not incl.) Are you interested to receive invitations to participate in EHRA endorsed research studies ?

Answered: 46 Skipped: 10



Answer Choices	Responses	
Yes	89.13%	41
No	10.87%	5
Other (please specify) (0)		
Total		46