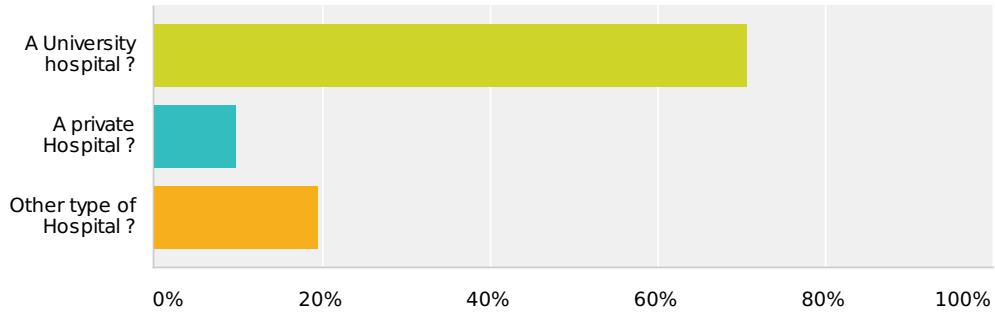


Q1 Is your institution :

Answered: 41 Skipped: 0



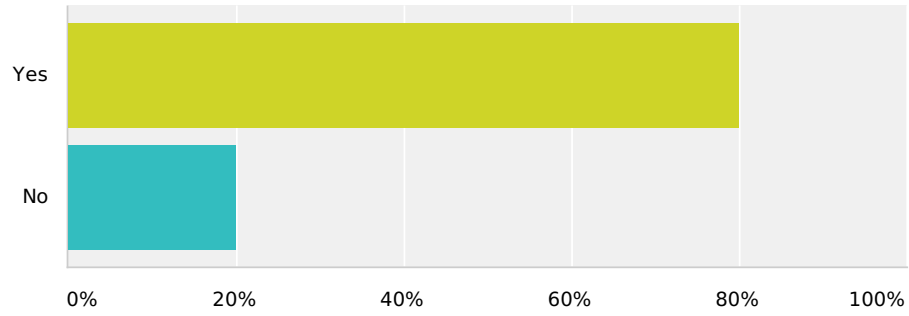
Answer Choices	Responses	
A University hospital ?	70.73%	29
A private Hospital ?	9.76%	4
Other type of Hospital ?	19.51%	8
Total		41

Q2 Please indicate your country.

Answered: 40 Skipped: 1

Q3 Do you have a cardiac surgery at your institution?

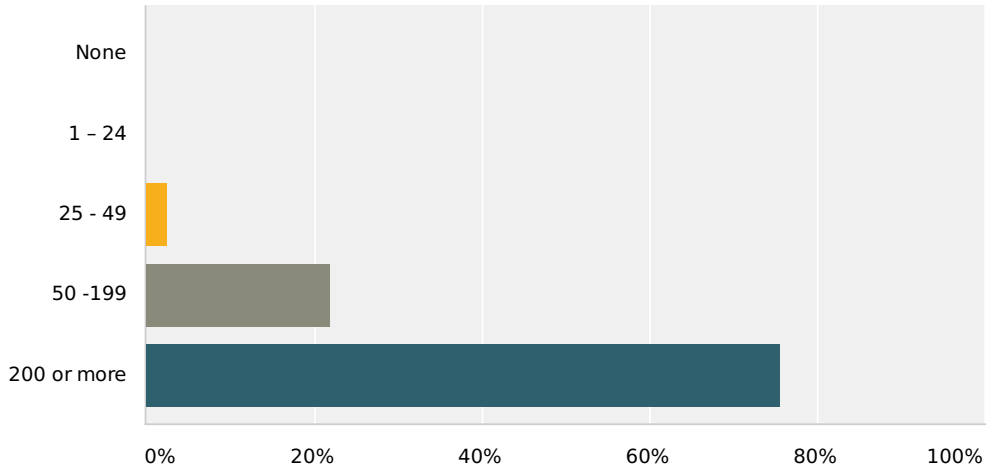
Answered: 40 Skipped: 1



Answer Choices	Responses	
Yes	80%	32
No	20%	8
Total		40

Q4 Number of Pacemaker implantations (Including CRT-Ps) at your institution (including box changes) last calendar year:

Answered: 41 Skipped: 0



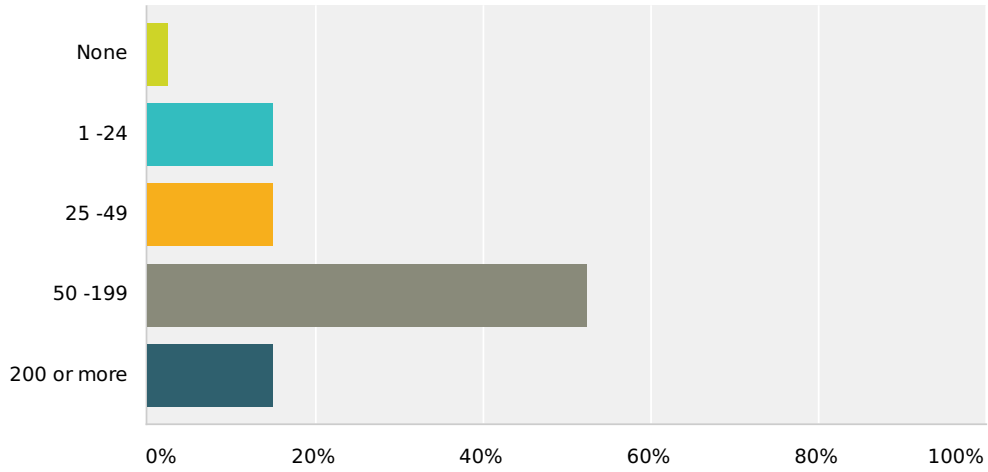
Answer Choices	Responses	
None	0%	0
1 - 24	0%	0
25 - 49	2.44%	1
50 -199	21.95%	9
200 or more	75.61%	31
Total		41

**Q5 What percentage of your
pacemaker implants receive CRT-P ?**

Answered: 39 Skipped: 2

Q6 Number of ICD implantations (Including CRT-Ds) at your institution (including box changes) last calendar year :

Answered: 40 Skipped: 1



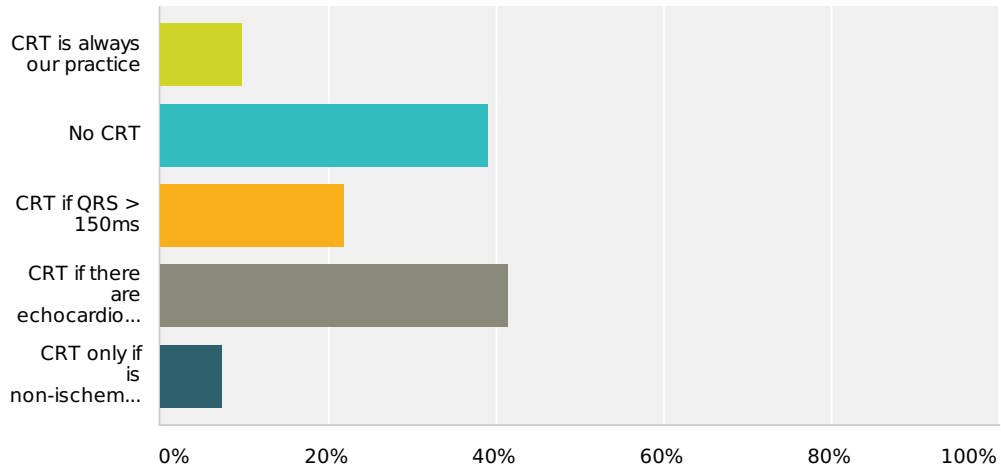
Answer Choices	Responses	
None	2.50%	1
1 -24	15%	6
25 -49	15%	6
50 -199	52.50%	21
200 or more	15%	6
Total		40

Q7 What percentage of ICD Implants receive CRT-D?

Answered: 41 Skipped: 0

Q8 What is your practice concerning CRT for patients with RBBB (QRS complex duration >120 ms) and dilated cardiomyopathy (LVEF < 35% and NYHA functional class III or IV on optimal medical therapy)?

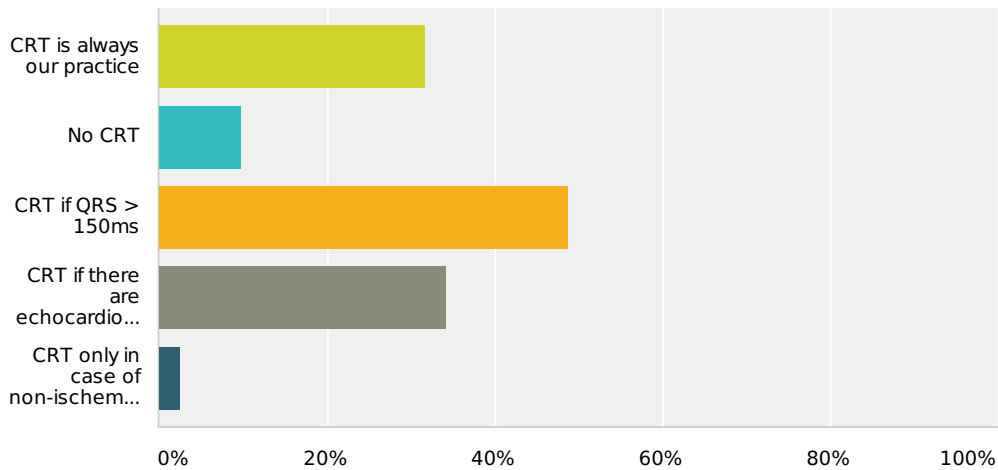
Answered: 41 Skipped: 0



Answer Choices	Responses
CRT is always our practice	9.76% 4
No CRT	39.02% 16
CRT if QRS > 150ms	21.95% 9
CRT if there are echocardiographic criteria of asynchrony	41.46% 17
CRT only if is non-ischemic dilated cardiomyopathy	7.32% 3
Total Respondents: 41	

Q9 What is your practice concerning CRT for patients with NYHA functional class II and dilated cardiomyopathy (LBBB, QRS complex duration >120ms, LVEF < 35% on optimal medical therapy)?

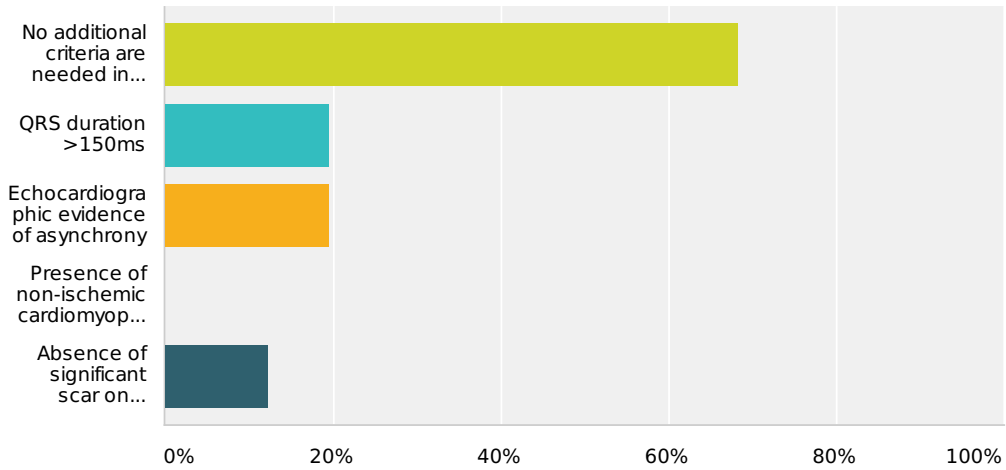
Answered: 41 Skipped: 0



Answer Choices	Responses
CRT is always our practice	31.71% 13
No CRT	9.76% 4
CRT if QRS > 150ms	48.78% 20
CRT if there are echocardiographic criteria of asynchrony	34.15% 14
CRT only in case of non-ischemic dilated cardiomyopathy	2.44% 1
Total Respondents: 41	

Q10 State which additional criteria you require for CRT in patients with functional class III or IV heart failure, LVEF < 35%, LBBB with QRS >120ms, on optimal medical therapy?

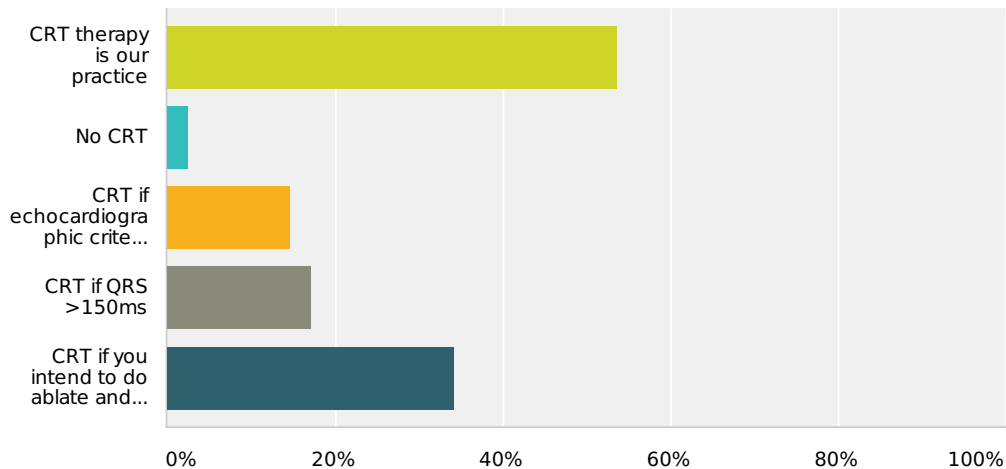
Answered: 41 Skipped: 0



Answer Choices	Responses
No additional criteria are needed in this situation	68.29% 28
QRS duration >150ms	19.51% 8
Echocardiographic evidence of asynchrony	19.51% 8
Presence of non-ischemic cardiomyopathy	0% 0
Absence of significant scar on echo/MRI	12.20% 5
Total Respondents: 41	

Q11 What is your practice for patients with permanent atrial fibrillation, QRS complex duration >130ms, LVEF <35% and NYHA functional class III or IV?

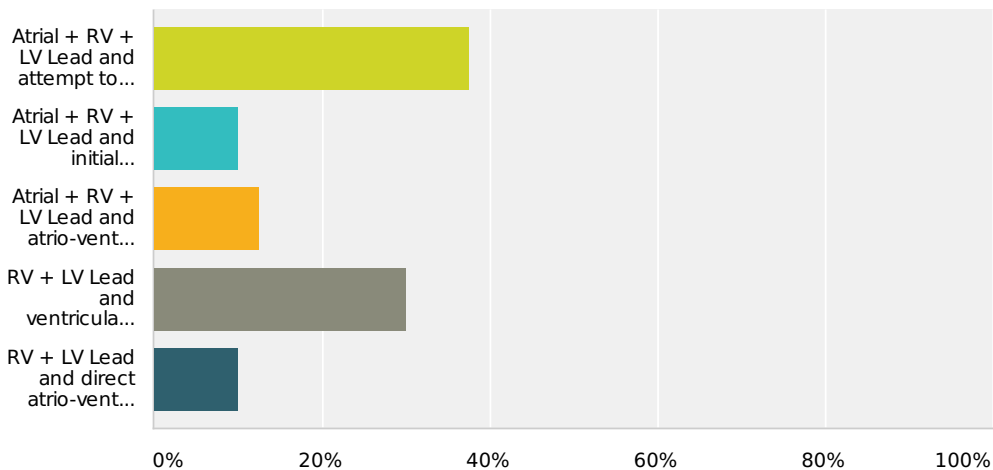
Answered: 41 Skipped: 0



Answer Choices	Responses
CRT therapy is our practice	53.66% 22
No CRT	2.44% 1
CRT if echocardiographic criteria of asynchrony are present	14.63% 6
CRT if QRS >150ms	17.07% 7
CRT if you intend to do ablate and pace for the rate control of AF	34.15% 14
Total Respondents: 41	

Q12 What is your strategy for CRT in patients with AF?

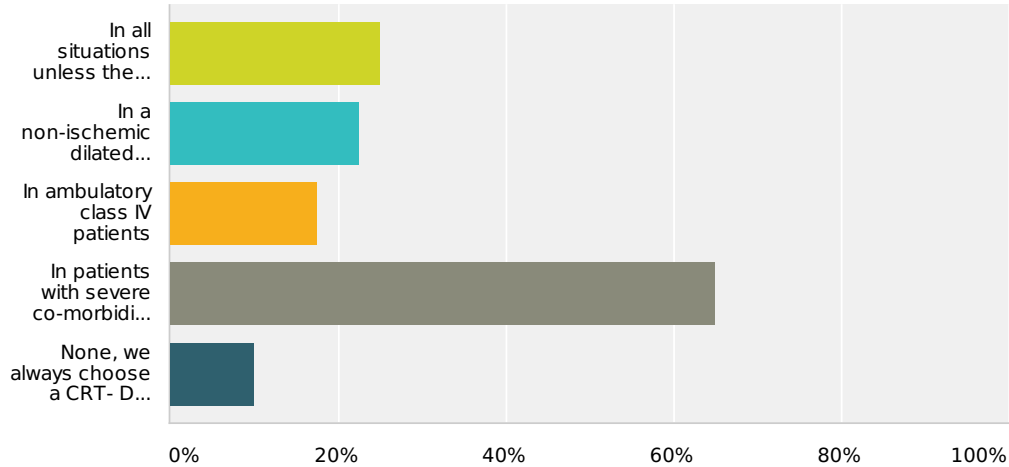
Answered: 40 Skipped: 1



Answer Choices	Responses
Atrial + RV + LV Lead and attempt to restore sinus rhythm if there is reverse remodeling	37.50% 15
Atrial + RV + LV Lead and initial attempt to control the ventricular rate with drugs	10% 4
Atrial + RV + LV Lead and atrio-ventricular node ablation from the beginning	12.50% 5
RV + LV Lead and ventricular rate control with drugs	30% 12
RV + LV Lead and direct atrio-ventricular node ablation	10% 4
Total	40

Q13 In which situation do you choose a device without defibrillation capabilities (i.e. CRT-P) for a patient with indication for CRT?

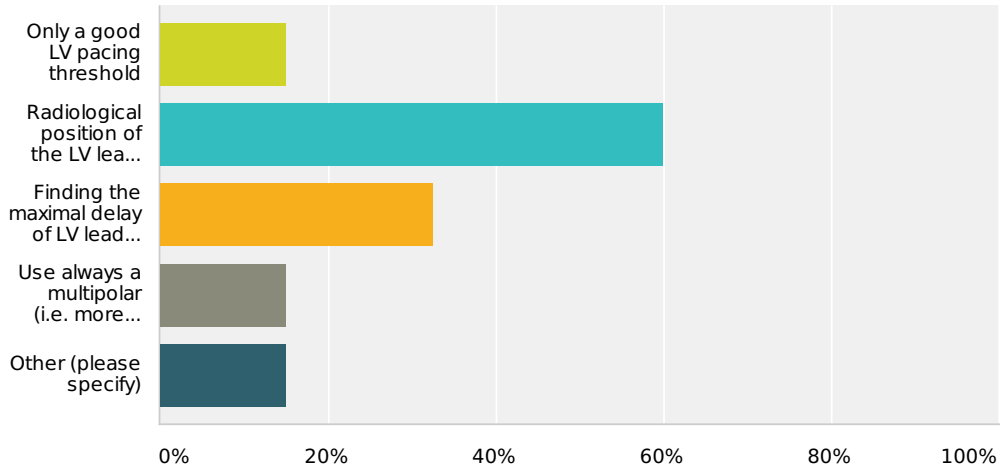
Answered: 40 Skipped: 1



Answer Choices	Responses
In all situations unless there is an indication for secondary prevention of SCD	25% 10
In a non-ischemic dilated cardiomyopathy	22.50% 9
In ambulatory class IV patients	17.50% 7
In patients with severe co-morbidities	65% 26
None, we always choose a CRT- D device	10% 4
Total Respondents: 40	

Q14 Which criteria or tools do you routinely use during the implant procedure, in order to find the best site for the LV lead?

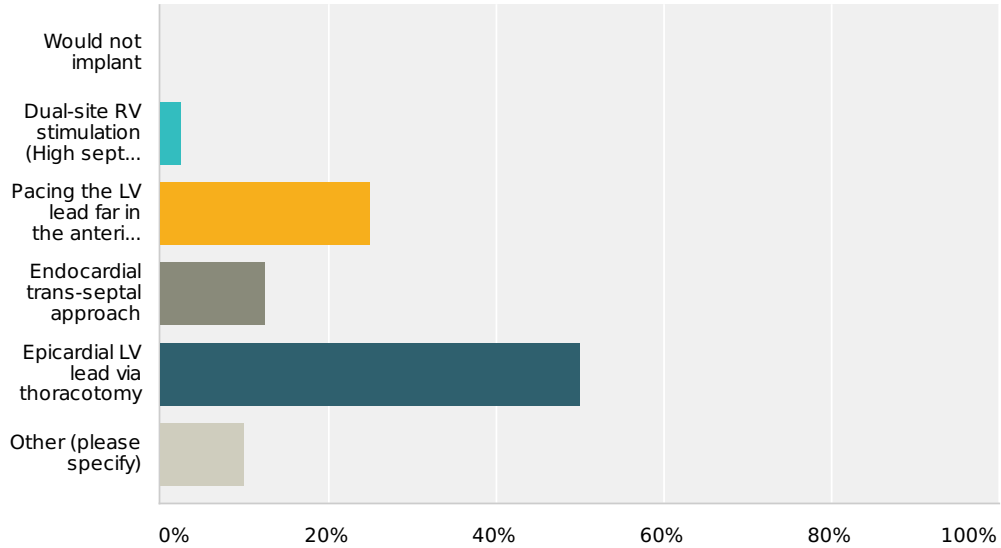
Answered: 40 Skipped: 1



Answer Choices	Responses
Only a good LV pacing threshold	15% 6
Radiological position of the LV lead concordant with the zone of maximal mechanic delay on echocardiography	60% 24
Finding the maximal delay of LV lead electrogram compared to the QRS/RV lead electrogram	32.50% 13
Use always a multipolar (i.e. more than 2 poles) LV lead	15% 6
Other (please specify)	15% 6
Total Respondents: 40	

Q15 If there are no feasible lateral veins for LV lead implantation via coronary sinus, which of the following alternatives would be your preferred one?

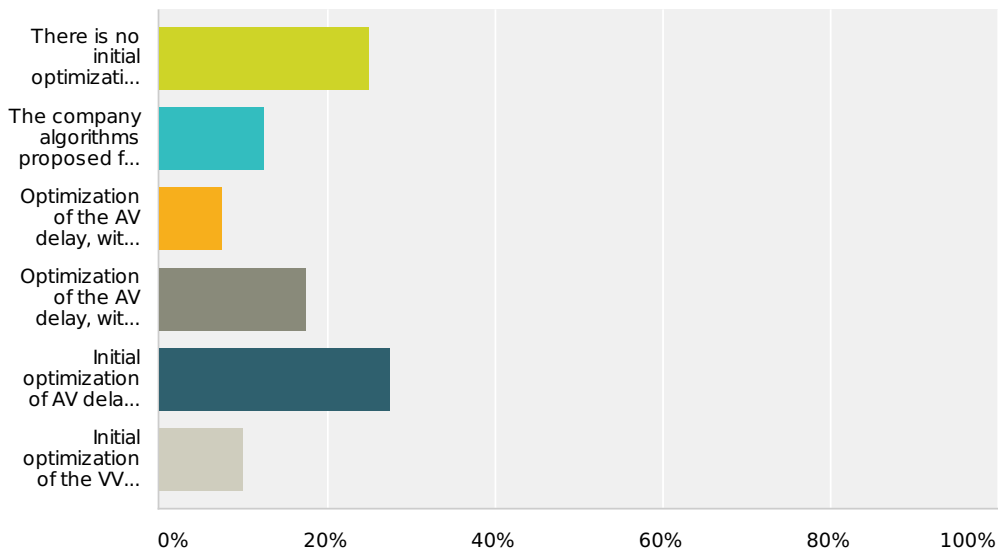
Answered: 40 Skipped: 1



Answer Choices	Responses
Would not implant	0% 0
Dual-site RV stimulation (High septal and apical)	2.50% 1
Pacing the LV lead far in the anterior vein	25% 10
Endocardial trans-septal approach	12.50% 5
Epicardial LV lead via thoracotomy	50% 20
Other (please specify)	10% 4
Total	40

Q16 What is the strategy for initial optimization of CRT after implantation?

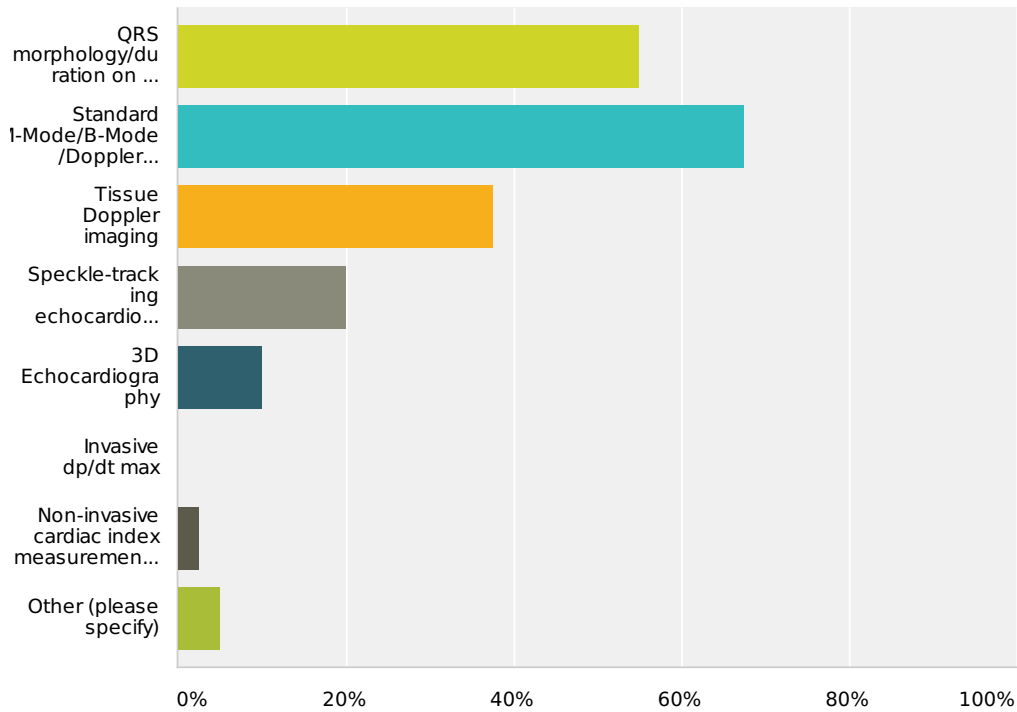
Answered: 40 Skipped: 1



Answer Choices	Responses
There is no initial optimization, only for non-responders	25% 10
The company algorithms proposed for the implanted device	12.50% 5
Optimization of the AV delay, with standard VV interval	7.50% 3
Optimization of the AV delay, with standard VV interval, but different depending on clinical/ECG conditions.	17.50% 7
Initial optimization of AV delay and if necessary of the VV interval	27.50% 11
Initial optimization of the VV interval and if necessary of the AV interval.	10% 4
Total	40

Q17 What methods do you practice for optimization of the CRT after implantation?

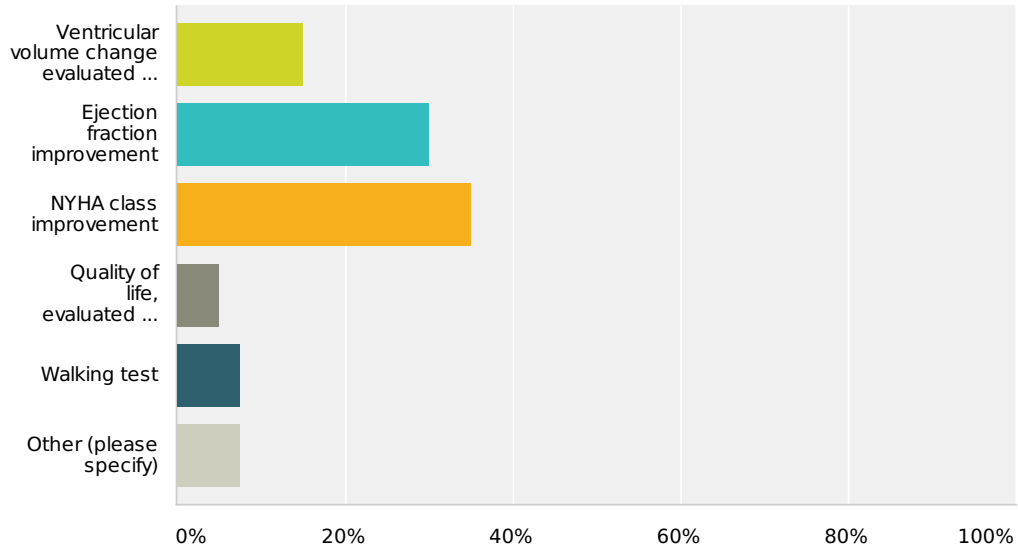
Answered: 40 Skipped: 1



Answer Choices	Responses
QRS morphology/duration on 12 lead ECG	55.00% 22
Standard M-Mode/B-Mode/Doppler echocardiography	67.50% 27
Tissue Doppler imaging	37.50% 15
Speckle-tracking echocardiography	20% 8
3D Echocardiography	10% 4
Invasive dp/dt max	0% 0
Non-invasive cardiac index measurement by impedance	2.50% 1
Other (please specify)	5% 2
Total Respondents: 40	

Q18 Which criterion do you find to be the most important in assessing the response to CRT?

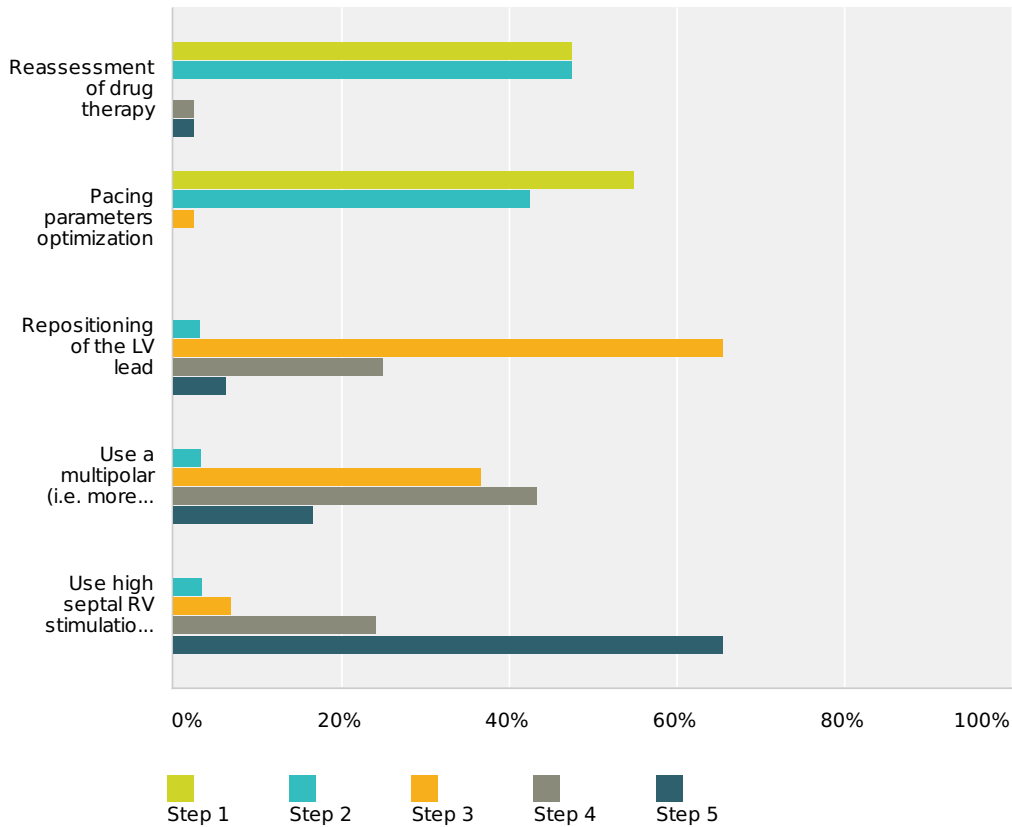
Answered: 40 Skipped: 1



Answer Choices	Responses
Ventricular volume change evaluated by echocardiography	15% 6
Ejection fraction improvement	30% 12
NYHA class improvement	35% 14
Quality of life, evaluated by specific questionnaires	5% 2
Walking test	7.50% 3
Other (please specify)	7.50% 3
Total	40

Q19 What succession of steps do you follow in case of CRT non-responders?

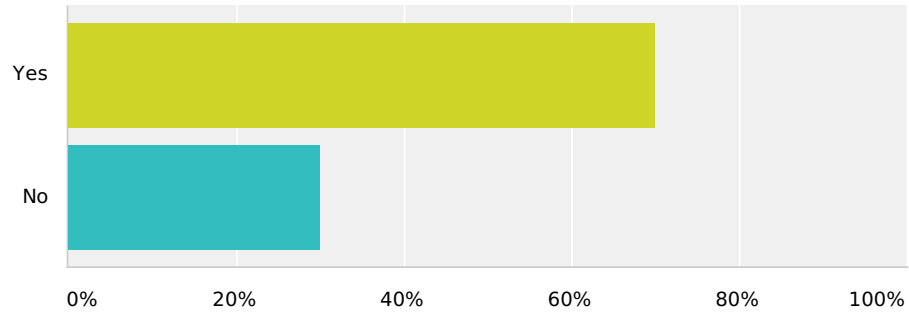
Answered: 40 Skipped: 1



	Step 1	Step 2	Step 3	Step 4	Step 5	Total
Reassessment of drug therapy	47.50% 19	47.50% 19	0% 0	2.50% 1	2.50% 1	40
Pacing parameters optimization	55.00% 22	42.50% 17	2.50% 1	0% 0	0% 0	40
Repositioning of the LV lead	0% 0	3.13% 1	65.63% 21	25% 8	6.25% 2	32
Use a multipolar (i.e. more than 2 poles) LV lead	0% 0	3.33% 1	36.67% 11	43.33% 13	16.67% 5	30
Use high septal RV stimulation instead of an apex lead	0% 0	3.45% 1	6.90% 2	24.14% 7	65.52% 19	29

Q20 Do you see the multipolar (i.e. more than 2 poles) LV pacing lead becoming the standard of care fo a CRT implant ?

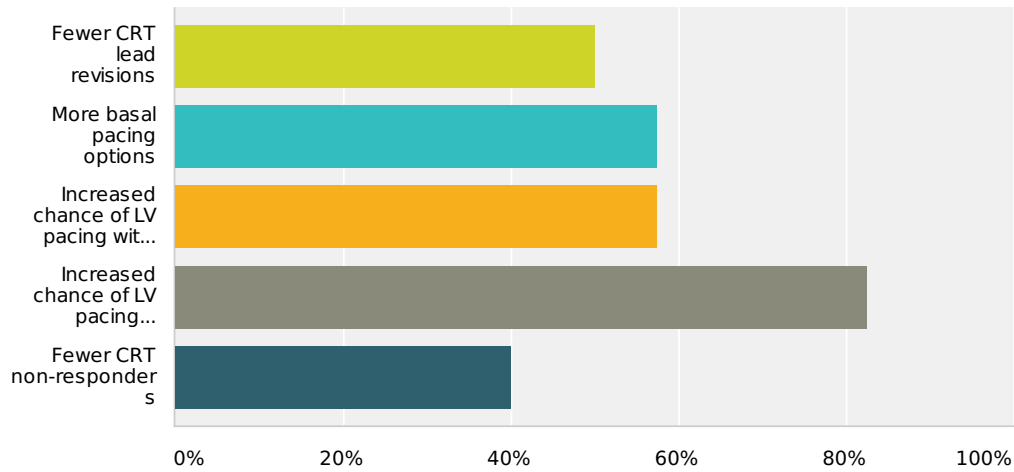
Answered: 40 Skipped: 1



Answer Choices	Responses
Yes	70% 28
No	30% 12
Total	40
If yes go to Q14 (0)	

Q21 What are your arguments for using multipolar (i.e. more than 2 poles) LV pacing leads as a standard of care for a CRT-D implant?

Answered: 40 Skipped: 1



Answer Choices	Responses
Fewer CRT lead revisions	50% 20
More basal pacing options	57.50% 23
Increased chance of LV pacing with low pacing thresholds	57.50% 23
Increased chance of LV pacing without phrenic nerve stimulation	82.50% 33
Fewer CRT non-responders	40% 16
Total Respondents: 40	