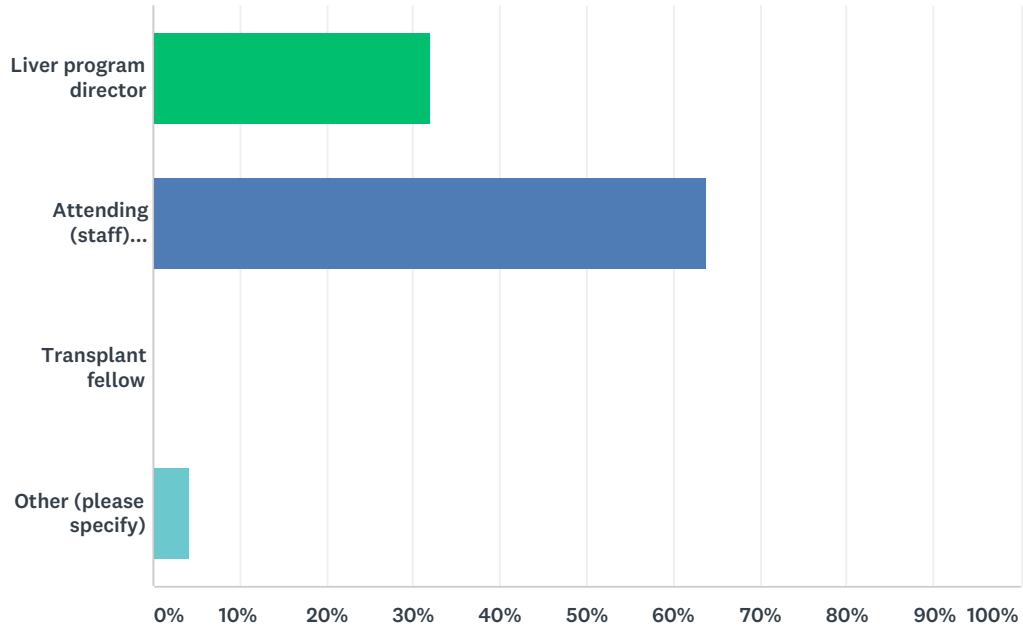


Q1 My role in my transplant center is:

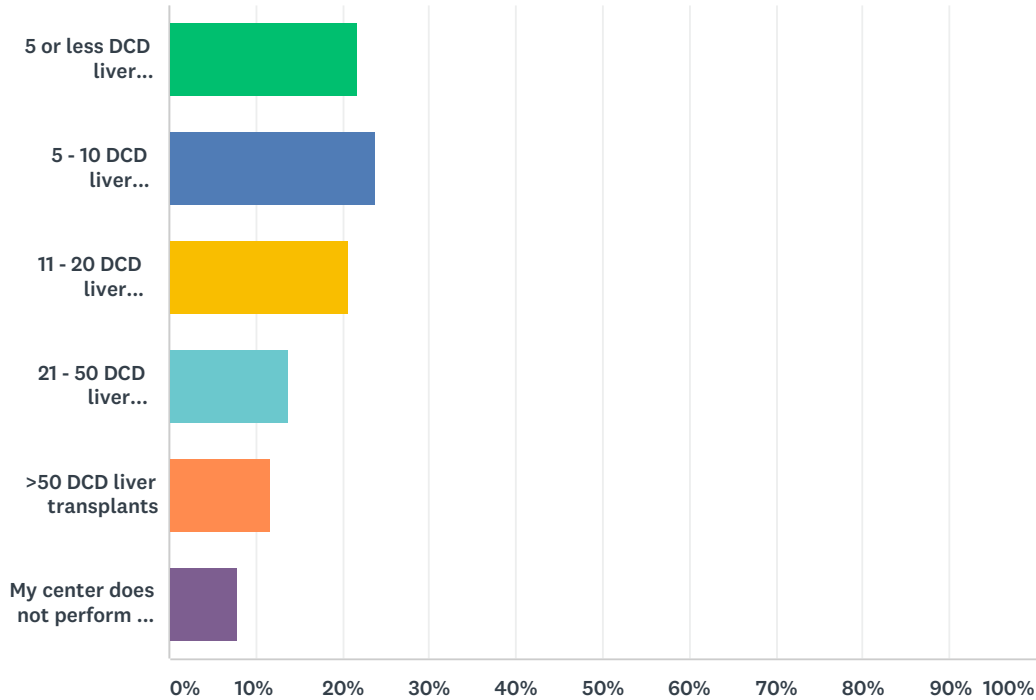
Answered: 188 Skipped: 0



ANSWER CHOICES	RESPONSES	
Liver program director	31.91%	60
Attending (staff) transplant surgeon	63.83%	120
Transplant fellow	0.00%	0
Other (please specify)	4.26%	8
TOTAL		188

Q2 Over the past 3 years my center has performed approximately:

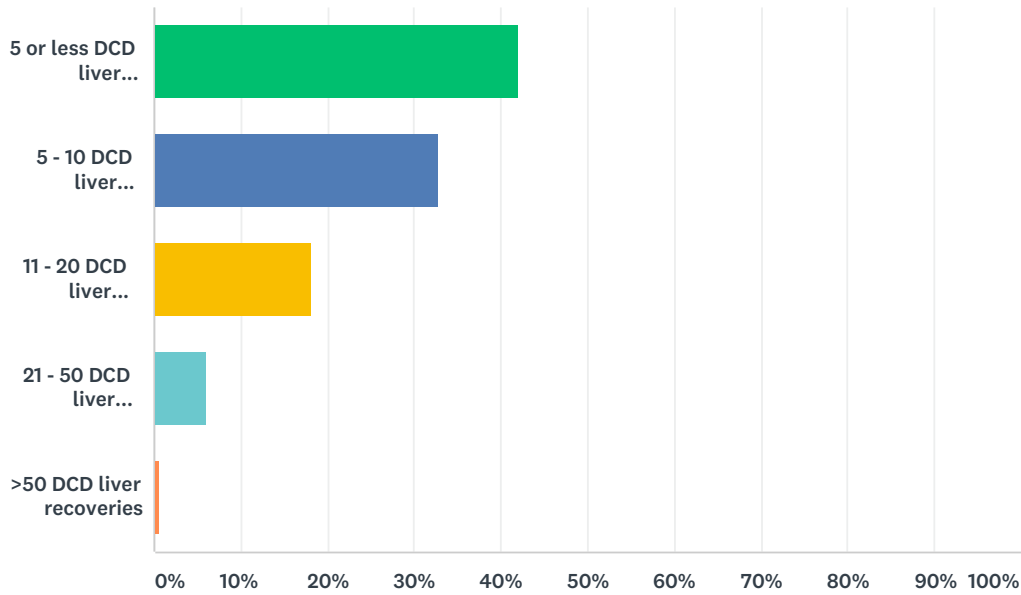
Answered: 188 Skipped: 0



ANSWER CHOICES	RESPONSES	
5 or less DCD liver transplants	21.81%	41
5 - 10 DCD liver transplants	23.94%	45
11 - 20 DCD liver transplants	20.74%	39
21 - 50 DCD liver transplants	13.83%	26
>50 DCD liver transplants	11.70%	22
My center does not perform DCD liver transplants	7.98%	15
TOTAL		188

Q3 Over the past 3 years I have personally performed:

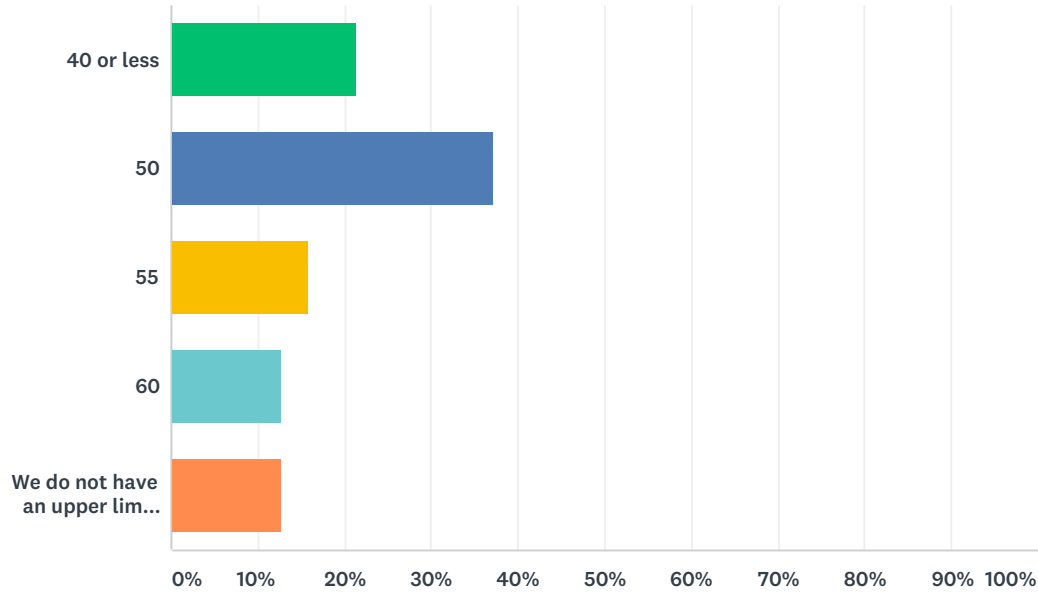
Answered: 164 Skipped: 24



ANSWER CHOICES	RESPONSES	
5 or less DCD liver recoveries	42.07%	69
5 - 10 DCD liver recoveries	32.93%	54
11 - 20 DCD liver recoveries	18.29%	30
21 - 50 DCD liver recoveries	6.10%	10
>50 DCD liver recoveries	0.61%	1
TOTAL		164

Q4 What is your upper limit of age for DCD liver donors?

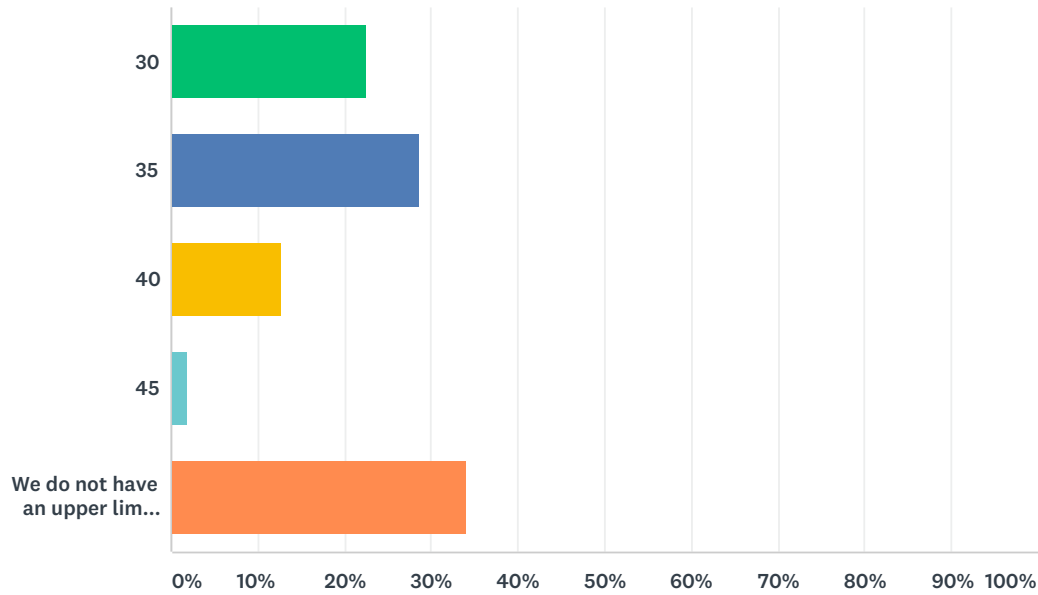
Answered: 164 Skipped: 24



ANSWER CHOICES	RESPONSES	
40 or less	21.34%	35
50	37.20%	61
55	15.85%	26
60	12.80%	21
We do not have an upper limit of donor age.	12.80%	21
TOTAL		164

Q5 What is your upper limit of BMI for DCD liver donors?

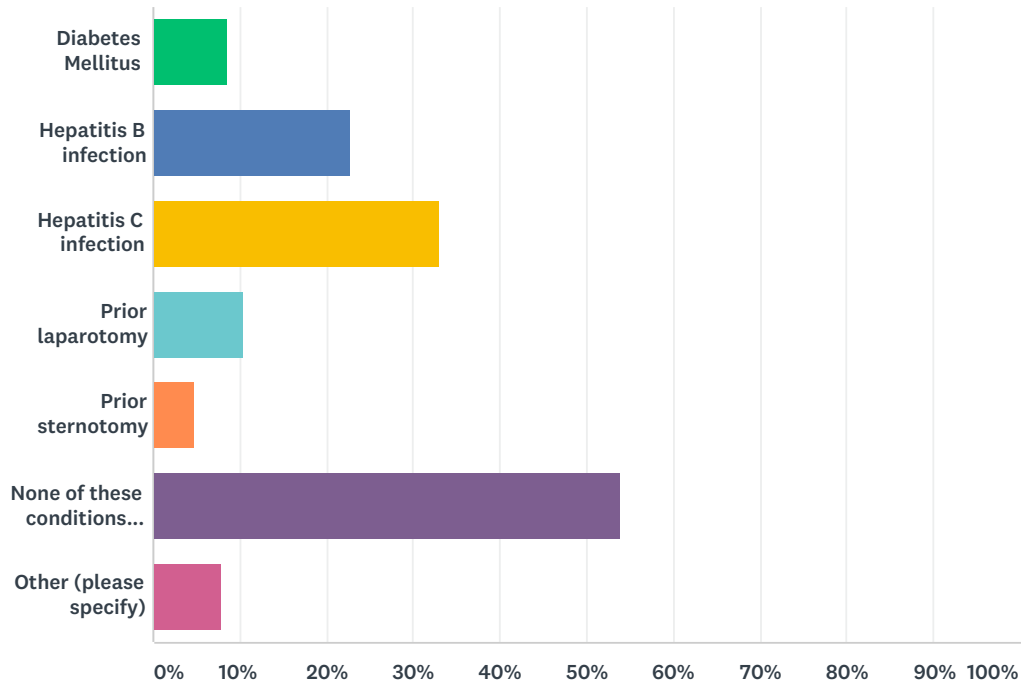
Answered: 164 Skipped: 24



ANSWER CHOICES	RESPONSES	
30	22.56%	37
35	28.66%	47
40	12.80%	21
45	1.83%	3
We do not have an upper limit of donor BMI.	34.15%	56
TOTAL		164

Q6 Which of the following conditions represent exclusion criteria for DCD liver donors? (Select all that apply)

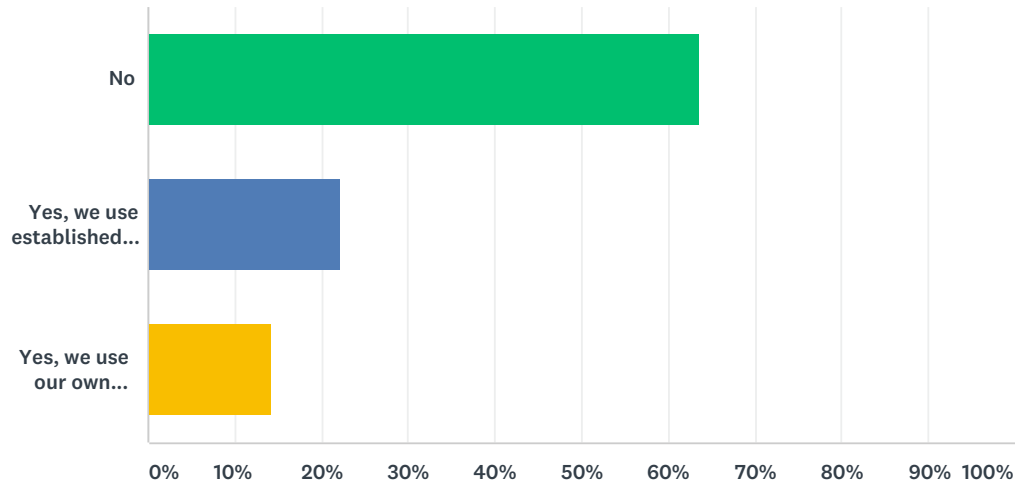
Answered: 163 Skipped: 25



ANSWER CHOICES	RESPONSES	
Diabetes Mellitus	8.59%	14
Hepatitis B infection	22.70%	37
Hepatitis C infection	33.13%	54
Prior laparotomy	10.43%	17
Prior sternotomy	4.91%	8
None of these conditions represent exclusion criteria	53.99%	88
Other (please specify)	7.98%	13
Total Respondents: 163		

Q7 Do you consider death-prediction tools when deciding whether or not to accept a DCD liver offer?

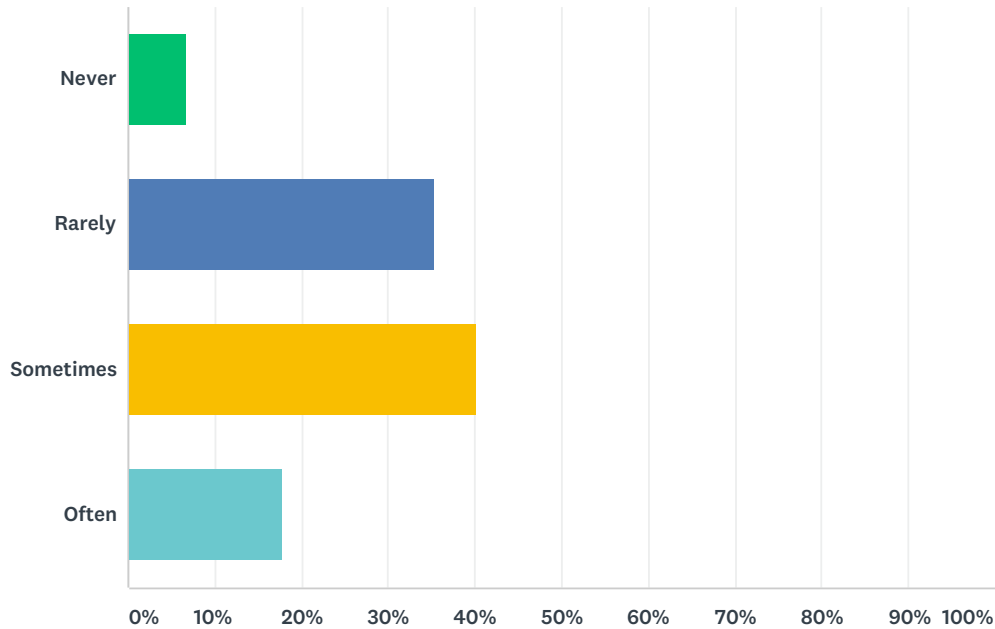
Answered: 162 Skipped: 26



ANSWER CHOICES	RESPONSES	
No	63.58%	103
Yes, we use established tools (e.g. University of Wisconsin tool or some other center specific tool)	22.22%	36
Yes, we use our own criteria	14.20%	23
TOTAL		162

Q8 How often do you have access to non-invasive diagnostics (i.e. ultrasound, cross-sectional imaging) at the time of the DCD liver offer?

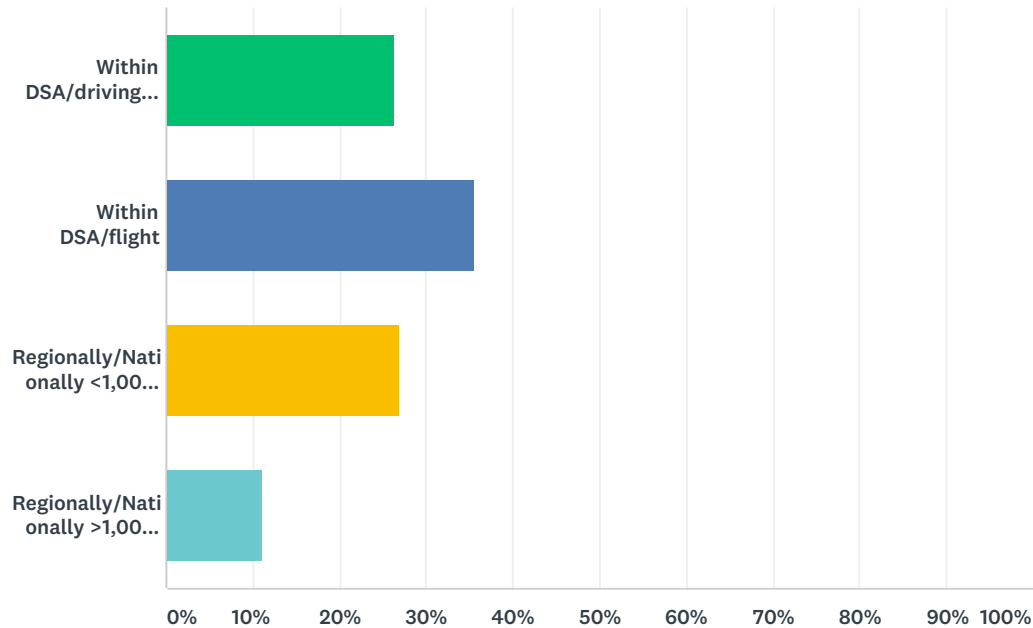
Answered: 164 Skipped: 24



ANSWER CHOICES	RESPONSES	
Never	6.71%	11
Rarely	35.37%	58
Sometimes	40.24%	66
Often	17.68%	29
TOTAL		164

Q9 How far are you willing to travel to potentially recover a DCD liver?

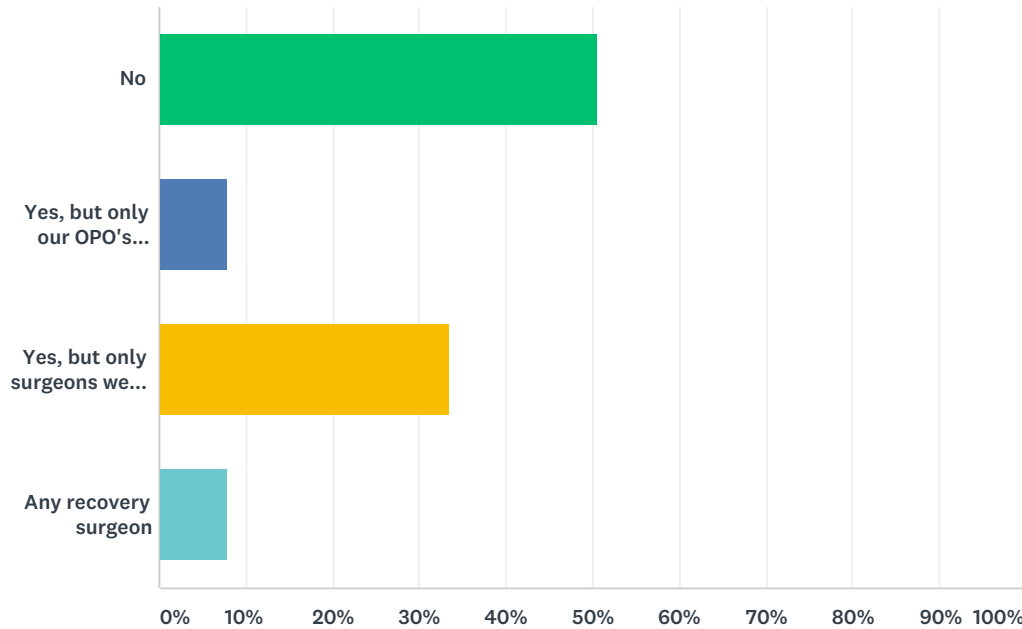
Answered: 163 Skipped: 25



ANSWER CHOICES	RESPONSES	
Within DSA/driving distance	26.38%	43
Within DSA/flight	35.58%	58
Regionally/Nationally <1,000 miles	26.99%	44
Regionally/Nationally >1,000 miles	11.04%	18
TOTAL		163

Q10 Are you willing to accept DCD livers recovered by surgeons not affiliated with your transplant center staff?

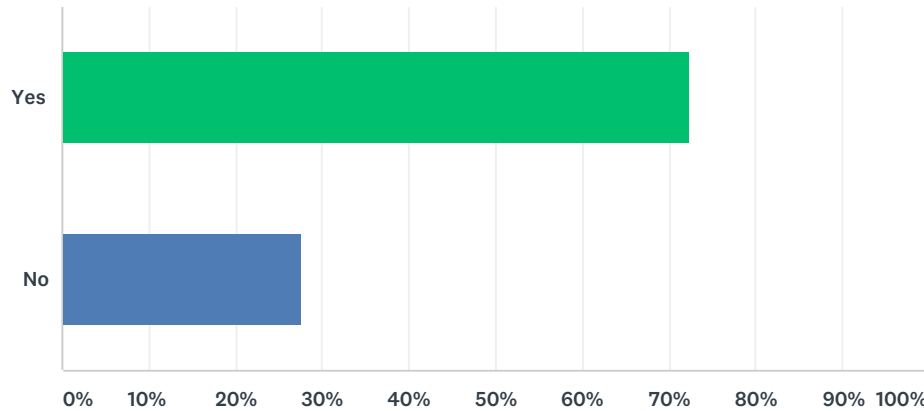
Answered: 164 Skipped: 24



ANSWER CHOICES	RESPONSES	
No	50.61%	83
Yes, but only our OPO's designated recovery surgeon(s)	7.93%	13
Yes, but only surgeons we know	33.54%	55
Any recovery surgeon	7.93%	13
TOTAL		164

Q11 Do you require that an attending surgeon performs the DCD liver recovery?

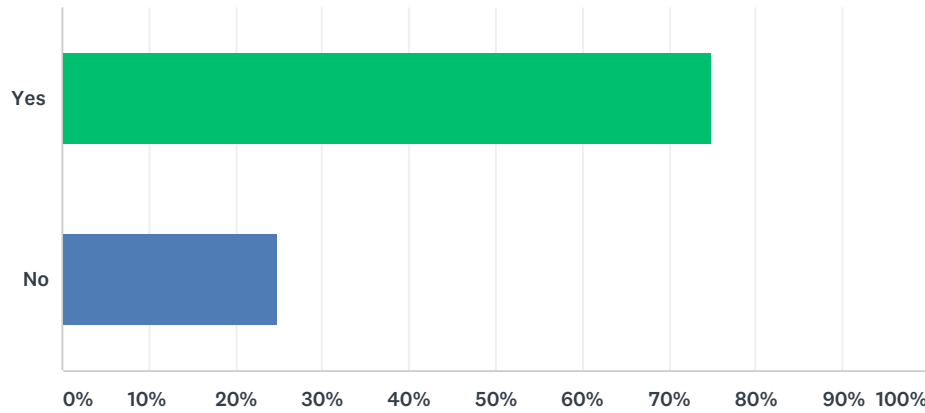
Answered: 163 Skipped: 25



ANSWER CHOICES	RESPONSES	
Yes	72.39%	118
No	27.61%	45
TOTAL		163

Q12 Do you always send an attending on a DCD recovery?

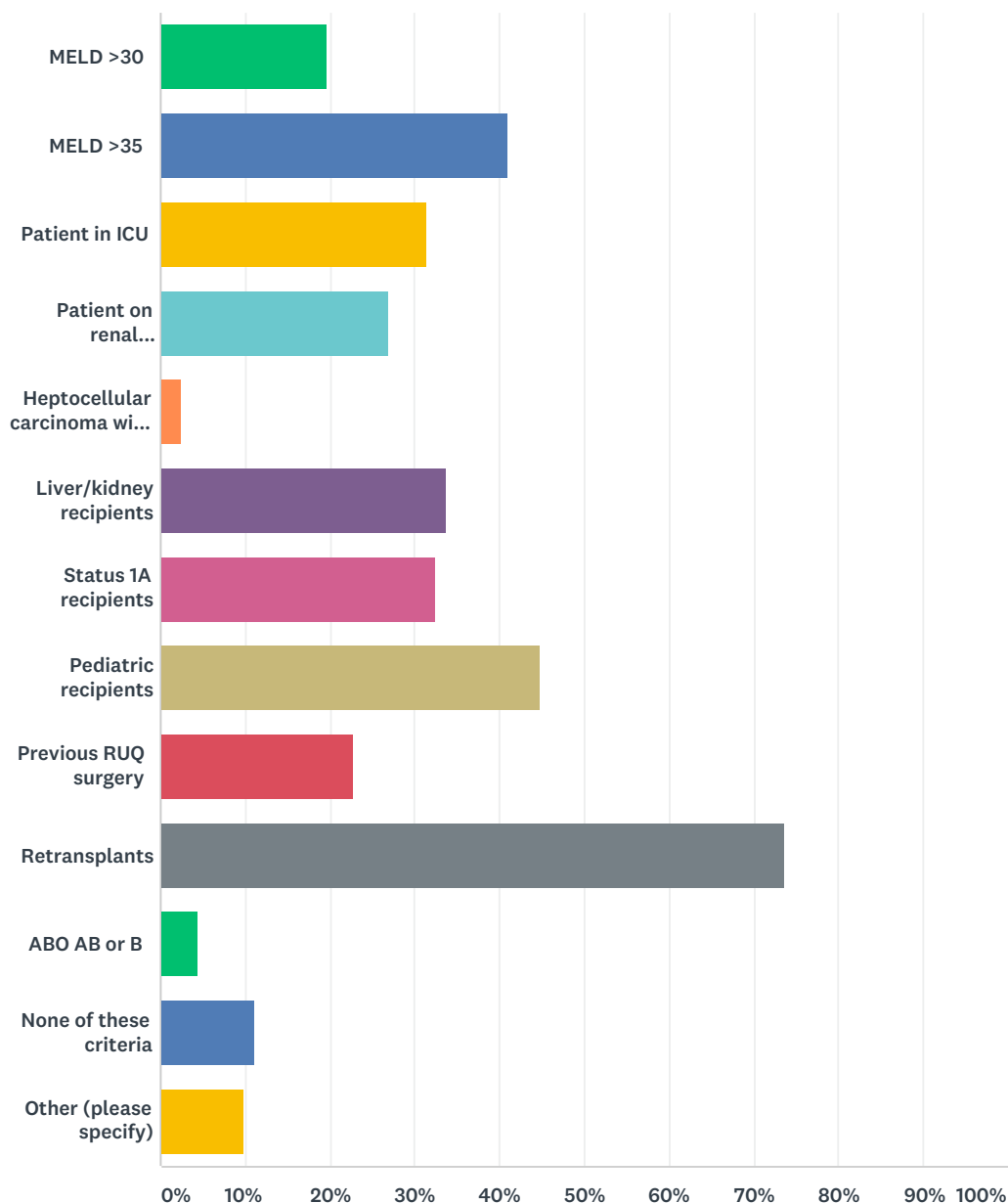
Answered: 164 Skipped: 24



ANSWER CHOICES	RESPONSES	
Yes	75.00%	123
No	25.00%	41
TOTAL		164

Q13 Which of the following represent your exclusion criteria for RECIPIENTS with respect to DCD liver offers? (Select all that apply)

Answered: 163 Skipped: 25



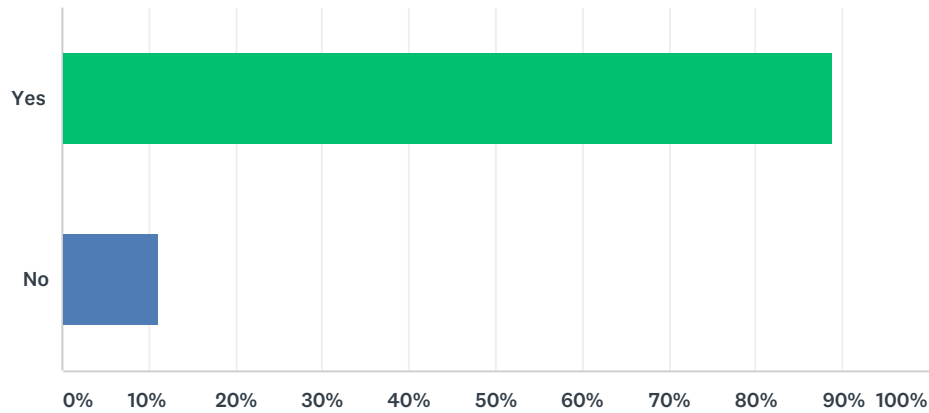
ANSWER CHOICES	RESPONSES	
MELD >30	19.63%	32
MELD >35	41.10%	67
Patient in ICU	31.29%	51
Patient on renal replacement therapy	26.99%	44
Hepatocellular carcinoma with exception points	2.45%	4

ASTS/AOPO DCD Transplant Center Survey

Liver/kidney recipients	33.74%	55
Status 1A recipients	32.52%	53
Pediatric recipients	44.79%	73
Previous RUQ surgery	22.70%	37
Retransplants	73.62%	120
ABO AB or B	4.29%	7
None of these criteria	11.04%	18
Other (please specify)	9.82%	16
Total Respondents: 163		

Q14 Do you require that the potential liver recipient is physically in the hospital at the time of the DCD liver recovery to help minimize cold ischemia time?

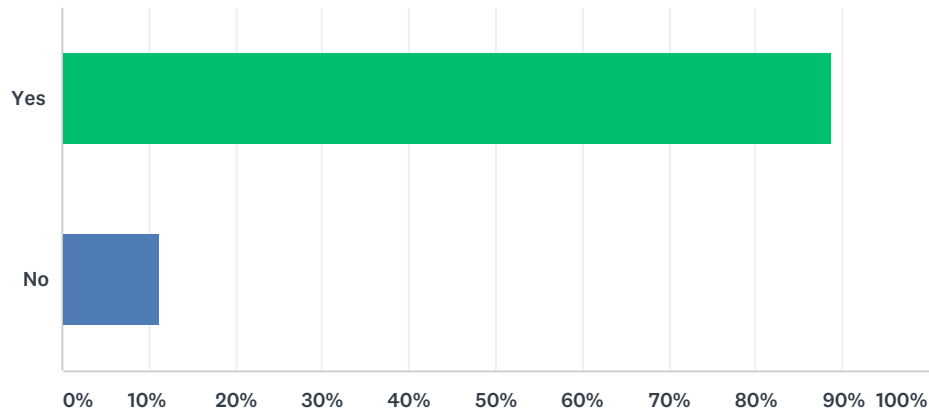
Answered: 163 Skipped: 25



ANSWER CHOICES	RESPONSES	
Yes	88.96%	145
No	11.04%	18
TOTAL		163

Q15 Do you routinely perform a debrief/huddle with all individuals involved with the DCD recovery process prior to withdrawal of life support?

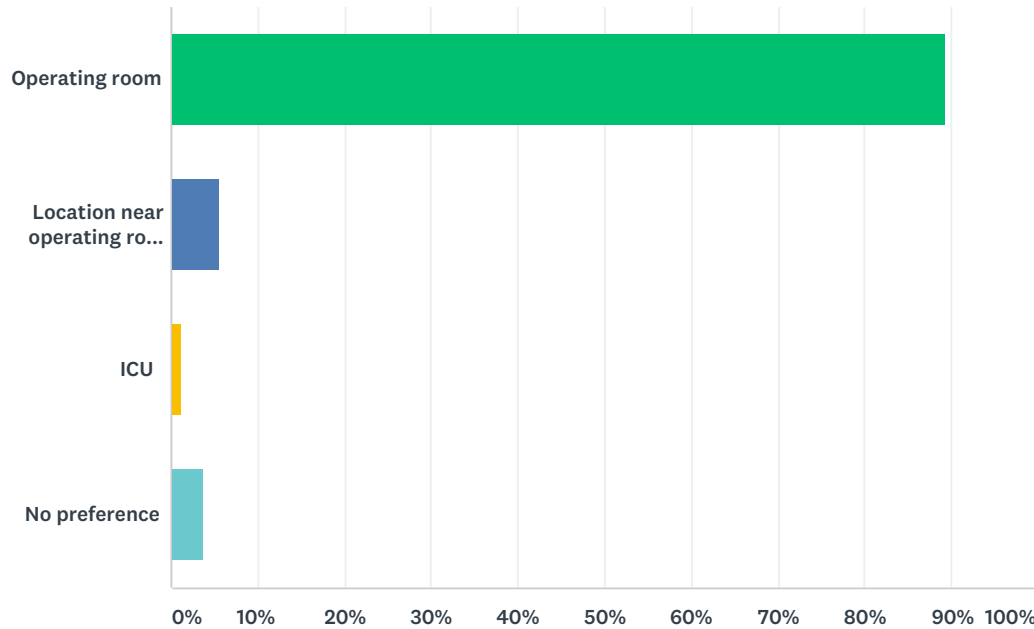
Answered: 159 Skipped: 29



ANSWER CHOICES	RESPONSES	
Yes	88.68%	141
No	11.32%	18
TOTAL		159

Q16 What is your PREFERRED location for withdrawal of care in the potential DCD liver donor?

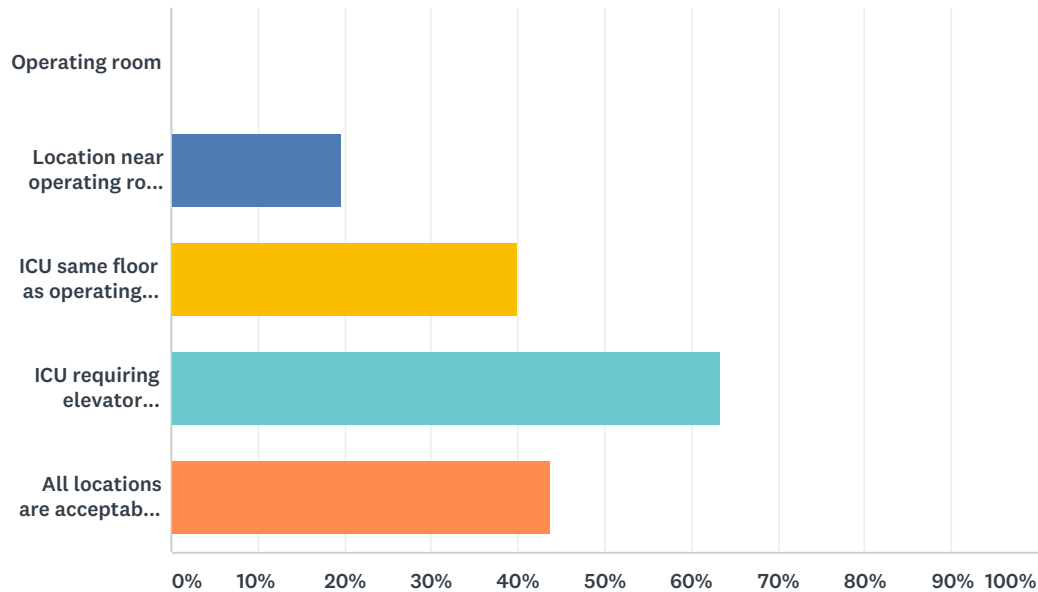
Answered: 159 Skipped: 29



ANSWER CHOICES	RESPONSES	
Operating room	89.31%	142
Location near operating room (e.g. PACU)	5.66%	9
ICU	1.26%	2
No preference	3.77%	6
TOTAL		159

Q17 Which of the following locations for withdrawal of care are NOT acceptable to you when considering a DCD liver recovery? (Select all that apply)

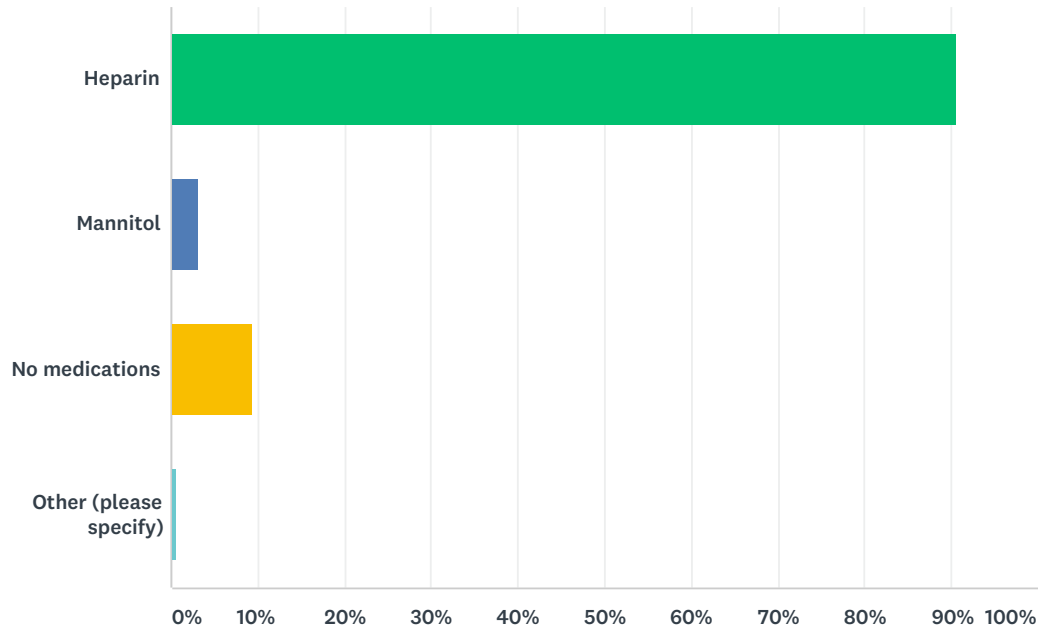
Answered: 158 Skipped: 30



ANSWER CHOICES	RESPONSES	
Operating room	0.00%	0
Location near operating room (e.g. PACU)	19.62%	31
ICU same floor as operating room	39.87%	63
ICU requiring elevator transport	63.29%	100
All locations are acceptable as long as declaration to incision time is less than 8 minutes (assuming 5-minute standoff period and then 3 minutes to start)	43.67%	69
Total Respondents: 158		

Q18 What pre-withdrawal medications are required when considering a DCD liver offer?

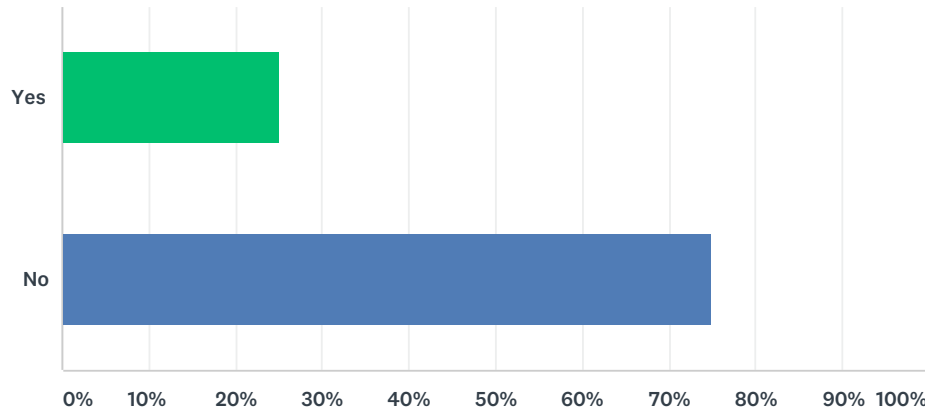
Answered: 159 Skipped: 29



ANSWER CHOICES	RESPONSES	
Heparin	90.57%	144
Mannitol	3.14%	5
No medications	9.43%	15
Other (please specify)	0.63%	1
Total Respondents: 159		

Q19 Will you consider a DCD donor if pre-mortem heparin is not allowed to be administered by the donor hospital?

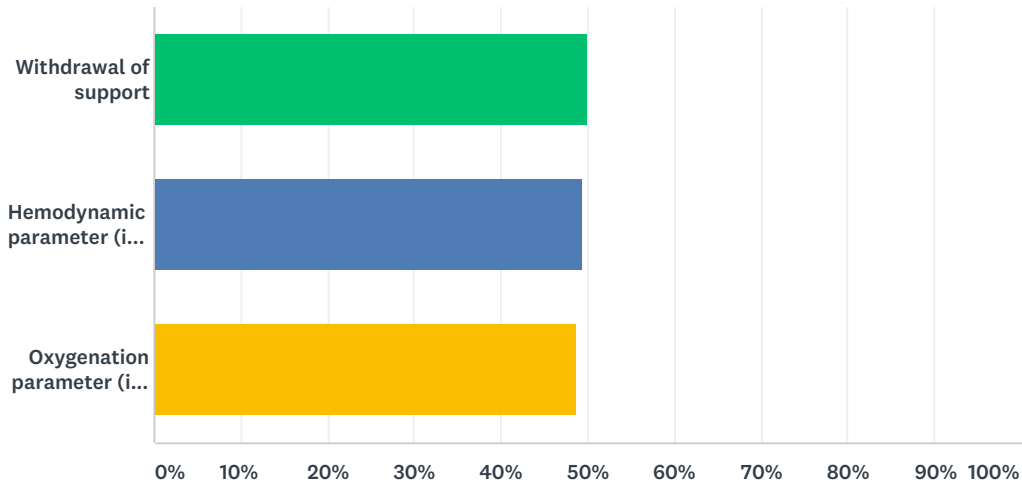
Answered: 159 Skipped: 29



ANSWER CHOICES	RESPONSES	
Yes	25.16%	40
No	74.84%	119
TOTAL		159

Q20 What is your definition of the beginning of warm ischemia time? Select all that apply.

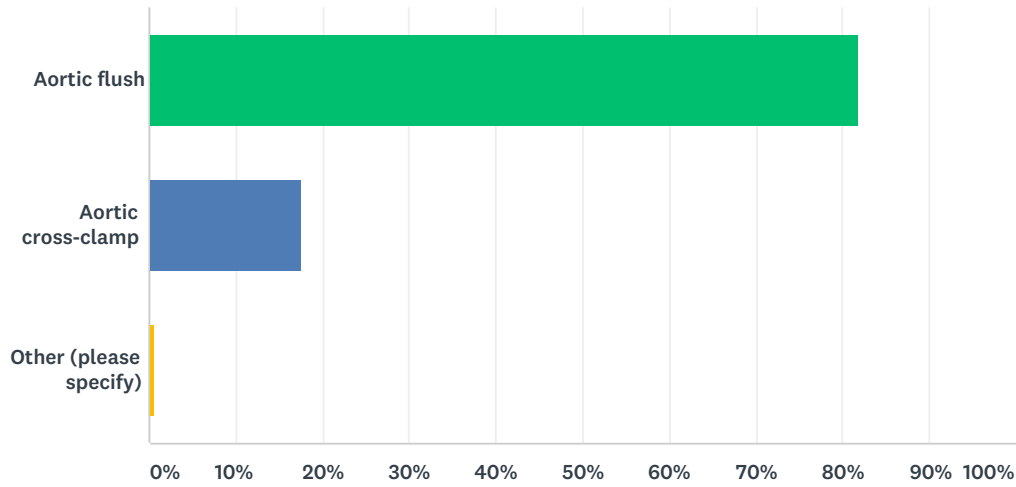
Answered: 158 Skipped: 30



ANSWER CHOICES	RESPONSES	
Withdrawal of support	50.00%	79
Hemodynamic parameter (i.e. SBP<80)	49.37%	78
Oxygenation parameter (i.e. O2 sat <80)	48.73%	77
Total Respondents: 158		

Q21 What is your definition of the end of warm ischemia time?

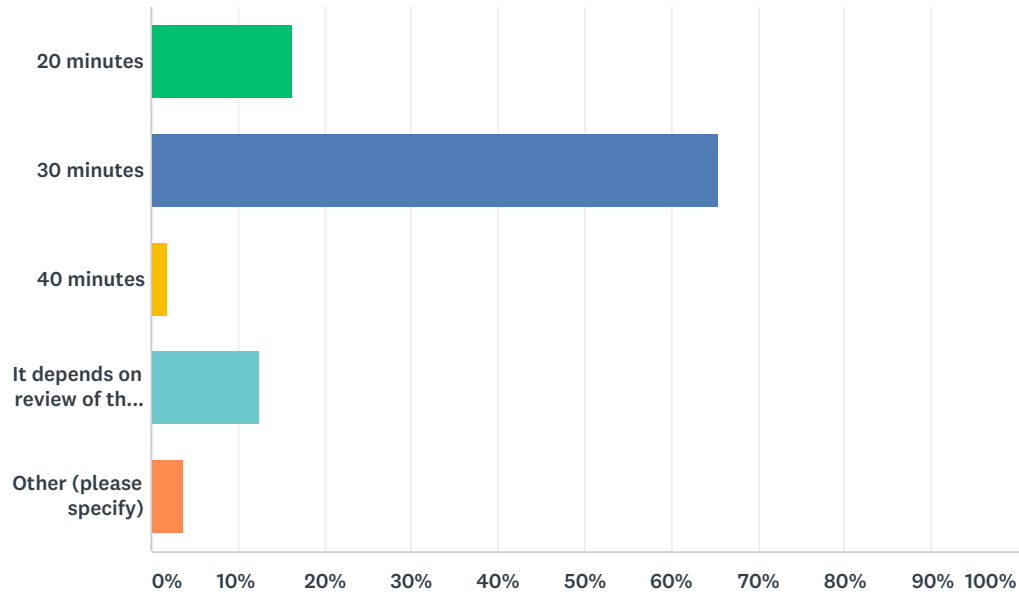
Answered: 159 Skipped: 29



ANSWER CHOICES	RESPONSES	
Aortic flush	81.76%	130
Aortic cross-clamp	17.61%	28
Other (please specify)	0.63%	1
TOTAL		159

Q22 What is the maximal allowable liver warm ischemia time (as calculated by your criteria)?

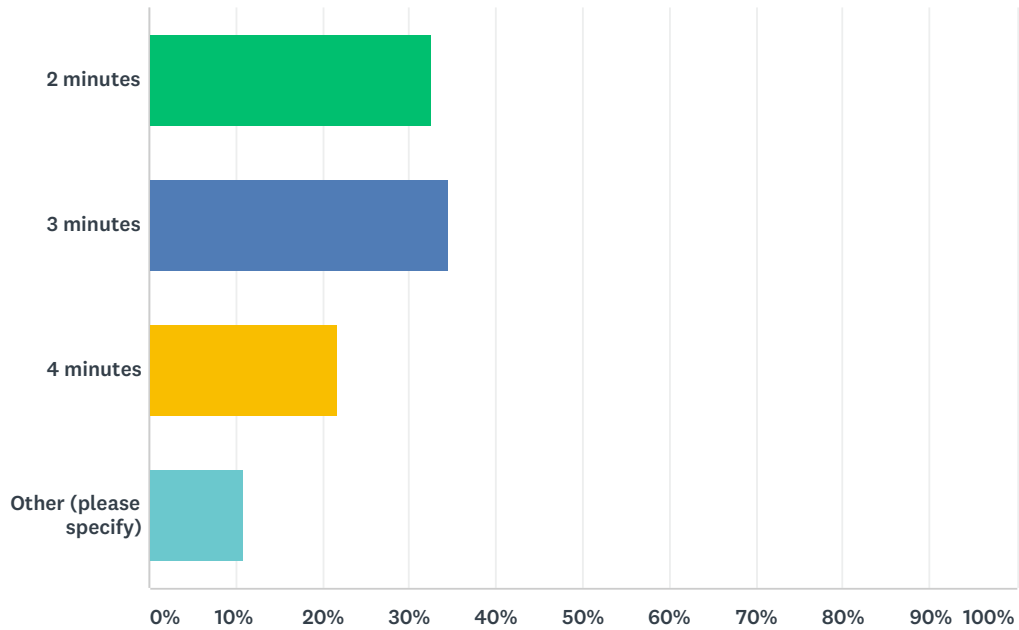
Answered: 159 Skipped: 29



ANSWER CHOICES	RESPONSES	
20 minutes	16.35%	26
30 minutes	65.41%	104
40 minutes	1.89%	3
It depends on review of the hemodynamic/oxygenation trends during the warm ischemia period.	12.58%	20
Other (please specify)	3.77%	6
TOTAL		159

Q23 What is your goal time from incision to cannulation?

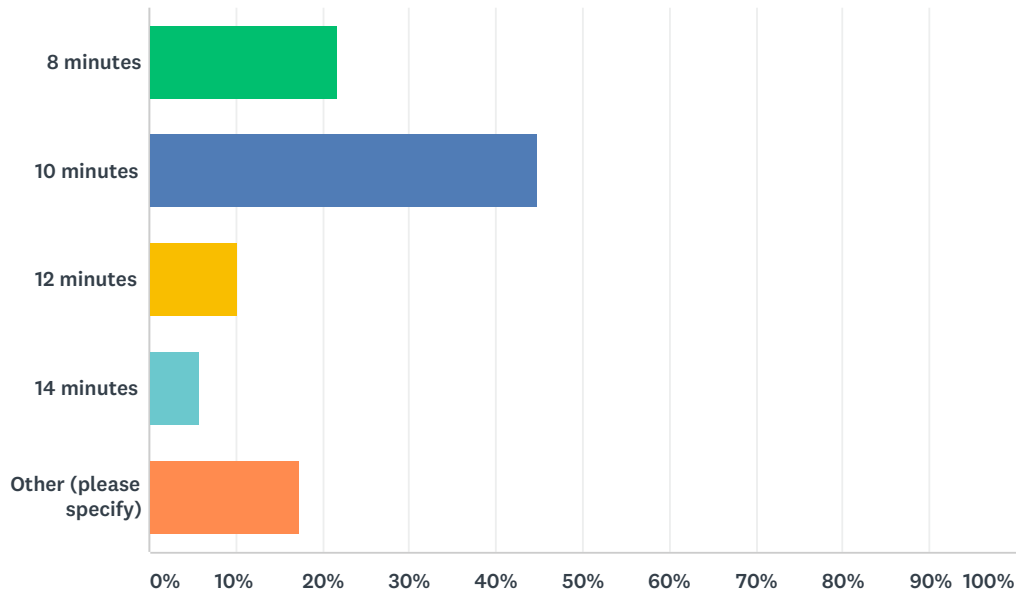
Answered: 156 Skipped: 32



ANSWER CHOICES		RESPONSES	
2 minutes		32.69%	51
3 minutes		34.62%	54
4 minutes		21.79%	34
Other (please specify)		10.90%	17
TOTAL			156

Q24 Assuming that total warm ischemia time is within your criteria, what is the maximum declaration to flush time that you will accept (includes the hands off period)?

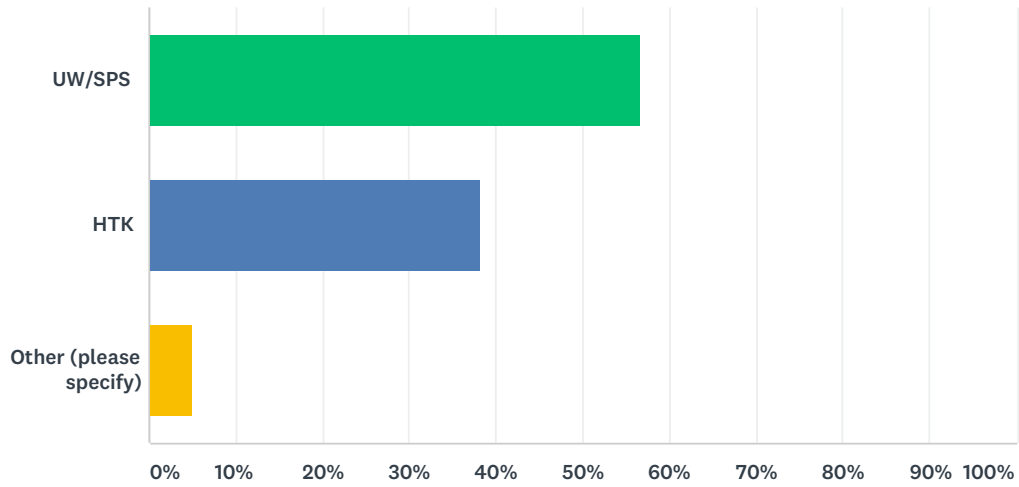
Answered: 156 Skipped: 32



ANSWER CHOICES	RESPONSES	
8 minutes	21.79%	34
10 minutes	44.87%	70
12 minutes	10.26%	16
14 minutes	5.77%	9
Other (please specify)	17.31%	27
TOTAL		156

Q25 What flush solution do you prefer for DCD liver recovery?

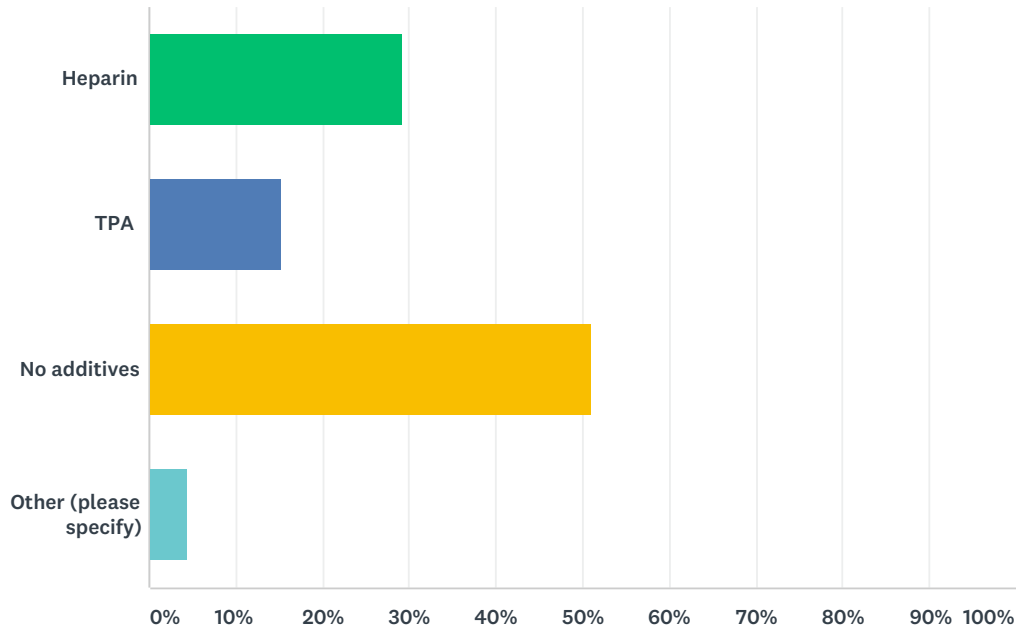
Answered: 157 Skipped: 31



ANSWER CHOICES	RESPONSES	
UW/SPS	56.69%	89
HTK	38.22%	60
Other (please specify)	5.10%	8
TOTAL		157

Q26 Do you routinely use medications added to the flush solution during DCD liver recoveries?

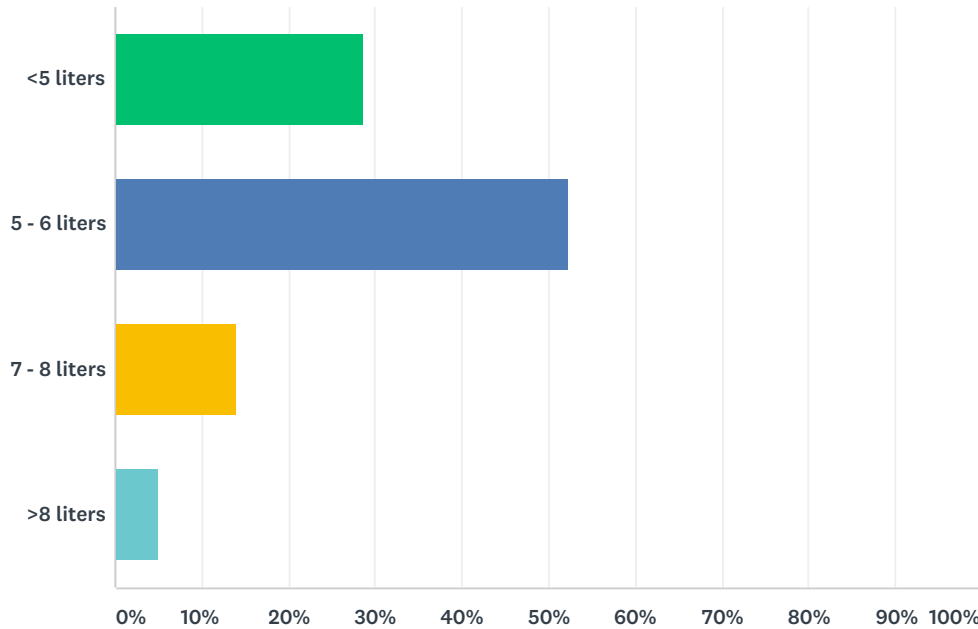
Answered: 157 Skipped: 31



ANSWER CHOICES	RESPONSES	
Heparin	29.30%	46
TPA	15.29%	24
No additives	50.96%	80
Other (please specify)	4.46%	7
TOTAL		157

Q27 What volume of flush solution do you infuse into the aorta during a normal DCD liver recovery?

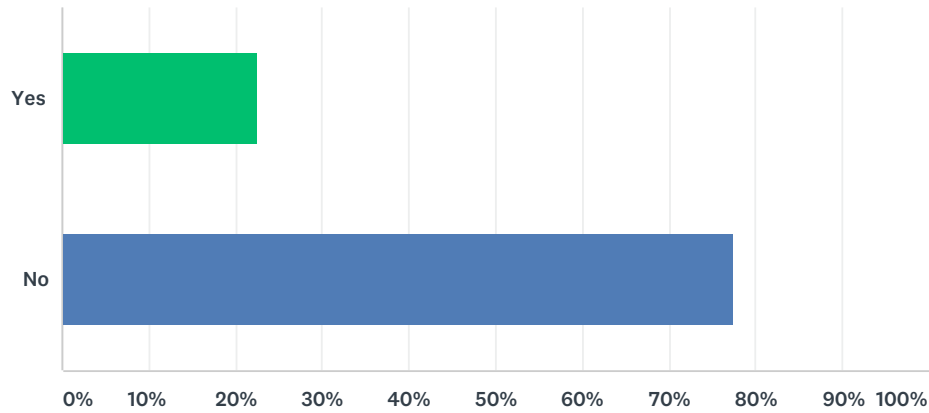
Answered: 157 Skipped: 31



ANSWER CHOICES	RESPONSES	
<5 liters	28.66%	45
5 - 6 liters	52.23%	82
7 - 8 liters	14.01%	22
>8 liters	5.10%	8
TOTAL		157

Q28 Do you utilize pressurized aortic flush when recovering DCD livers?

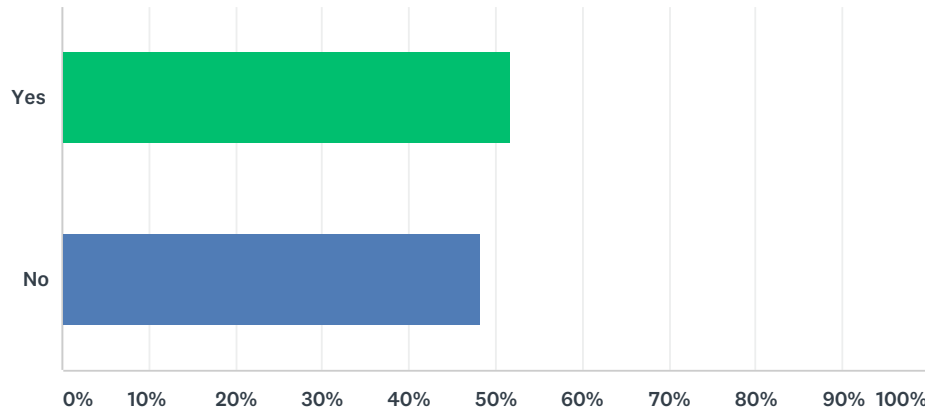
Answered: 155 Skipped: 33



ANSWER CHOICES	RESPONSES	
Yes	22.58%	35
No	77.42%	120
TOTAL		155

Q29 Do you perform in-situ flushing of the portal system during DCD liver recovery?

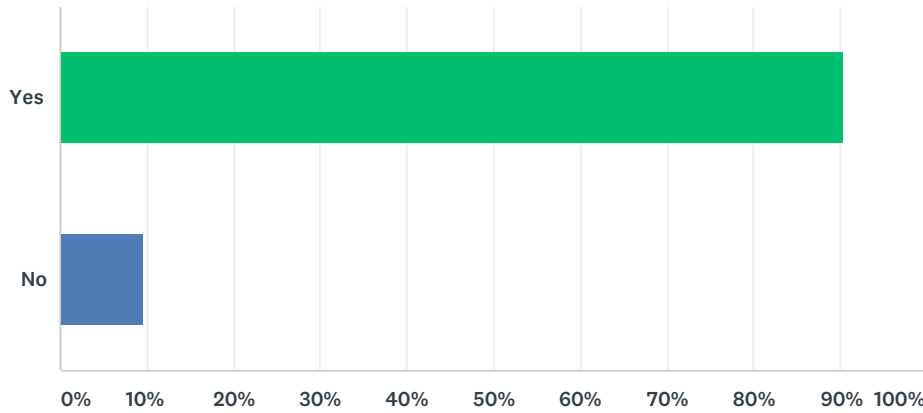
Answered: 157 Skipped: 31



ANSWER CHOICES	RESPONSES	
Yes	51.59%	81
No	48.41%	76
TOTAL		157

Q30 Do you perform back table flushing of the portal system during DCD liver recovery?

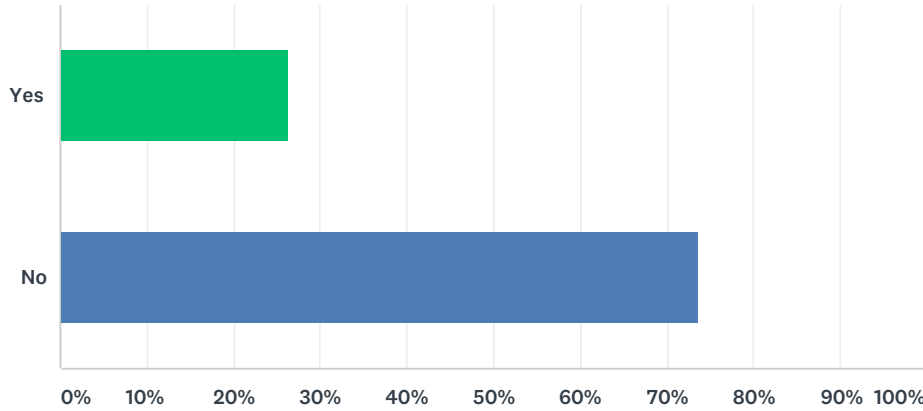
Answered: 157 Skipped: 31



ANSWER CHOICES	RESPONSES	
Yes	90.45%	142
No	9.55%	15
TOTAL		157

Q31 Do you perform retrograde (hepatic-vein) flush on the back-table during DCD liver recovery?

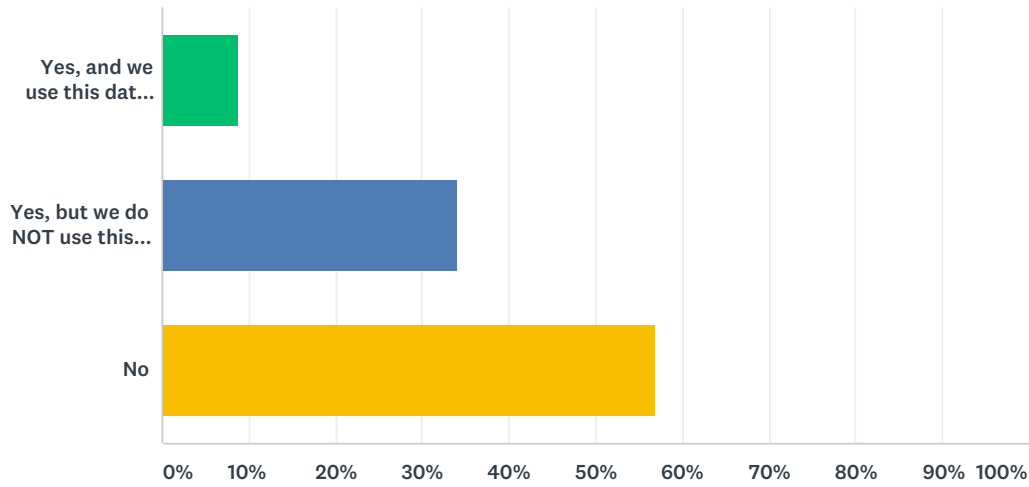
Answered: 156 Skipped: 32



ANSWER CHOICES	RESPONSES	
Yes	26.28%	41
No	73.72%	115
TOTAL		156

Q32 Do you measure the time from end of flush to liver removal?

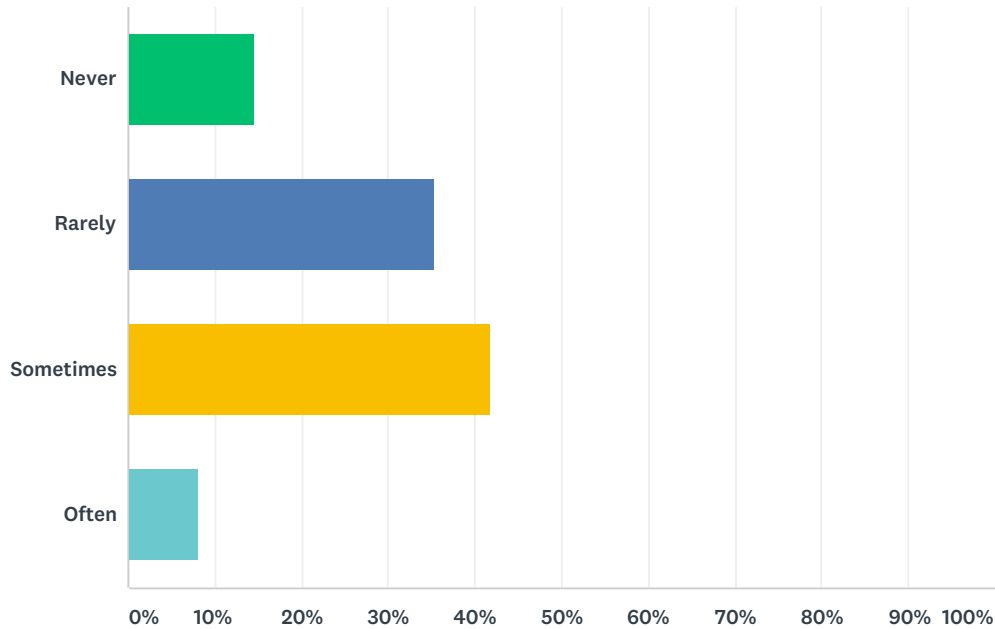
Answered: 158 Skipped: 30



ANSWER CHOICES		RESPONSES	
Yes, and we use this data when making acceptance decisions		8.86%	14
Yes, but we do NOT use this data when making acceptance decisions		34.18%	54
No		56.96%	90
TOTAL			158

Q33 Do you utilize post-recovery liver biopsy to make acceptance decisions?

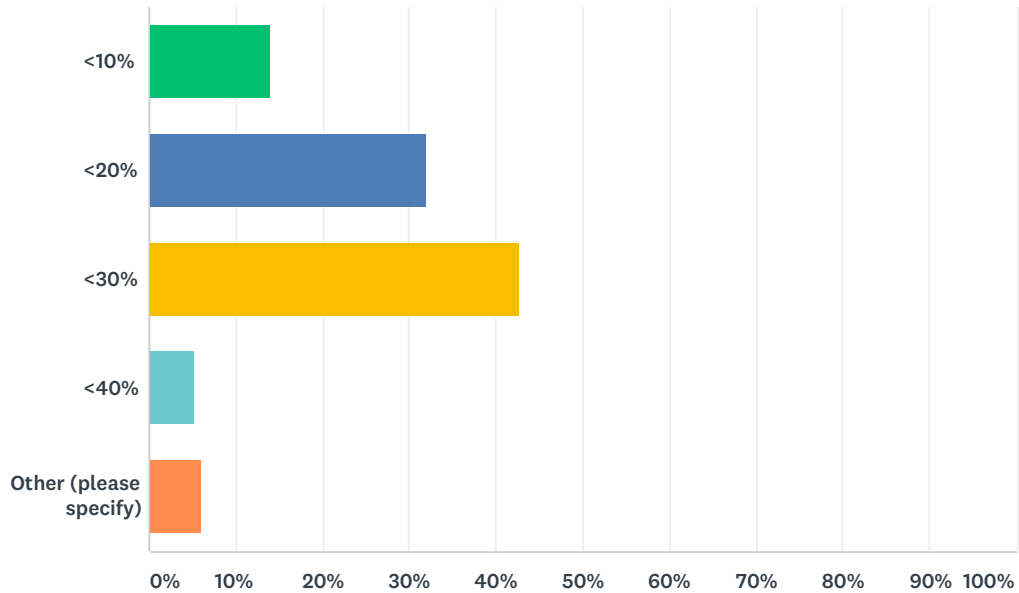
Answered: 158 Skipped: 30



ANSWER CHOICES	RESPONSES	
Never	14.56%	23
Rarely	35.44%	56
Sometimes	41.77%	66
Often	8.23%	13
TOTAL		158

Q34 If you use biopsy data to determine liver acceptance, what is the maximum amount of macrosteatosis acceptable?

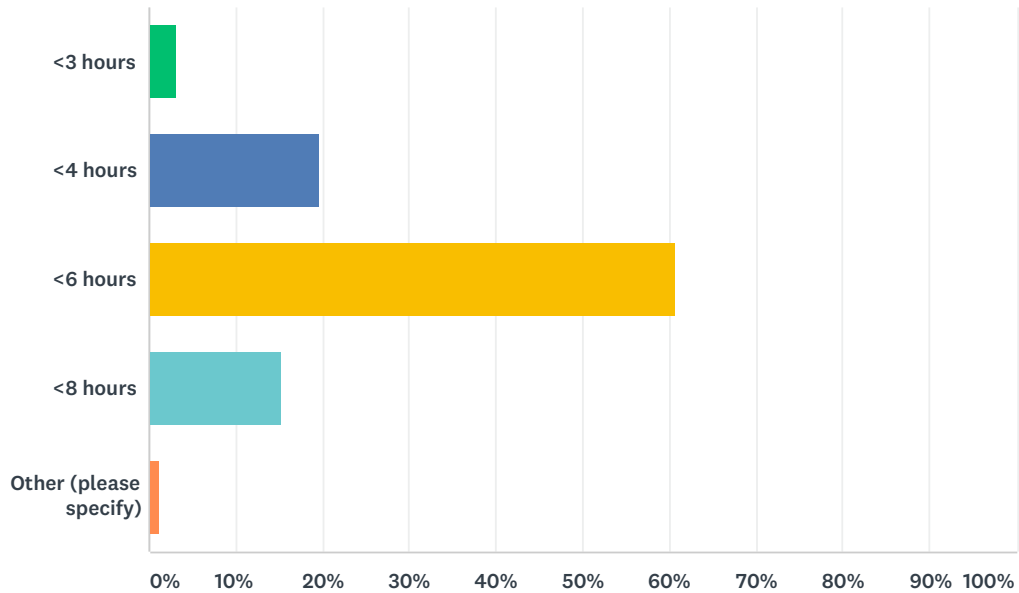
Answered: 150 Skipped: 38



ANSWER CHOICES	RESPONSES	
<10%	14.00%	21
<20%	32.00%	48
<30%	42.67%	64
<40%	5.33%	8
Other (please specify)	6.00%	9
TOTAL		150

Q35 What is the goal cold ischemia time for DCD liver transplantation?

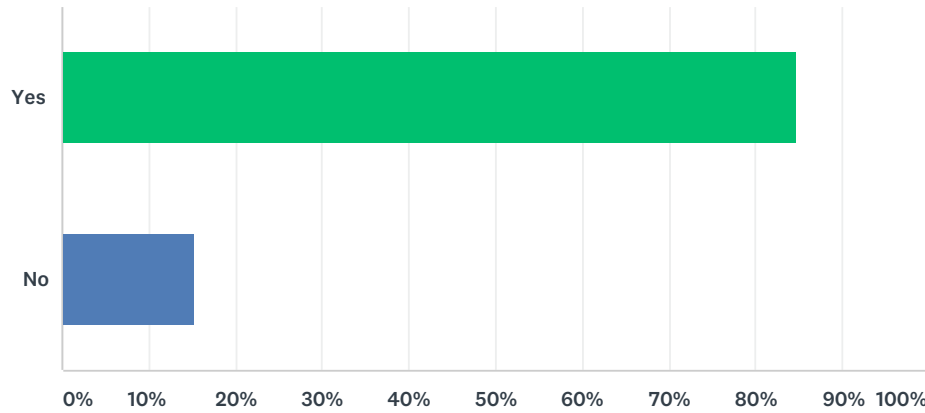
Answered: 158 Skipped: 30



ANSWER CHOICES	RESPONSES	
<3 hours	3.16%	5
<4 hours	19.62%	31
<6 hours	60.76%	96
<8 hours	15.19%	24
Other (please specify)	1.27%	2
TOTAL		158

Q36 Does a second team start the hepatectomy procedure prior to organ arrival at the center to minimize cold-ischemia time?

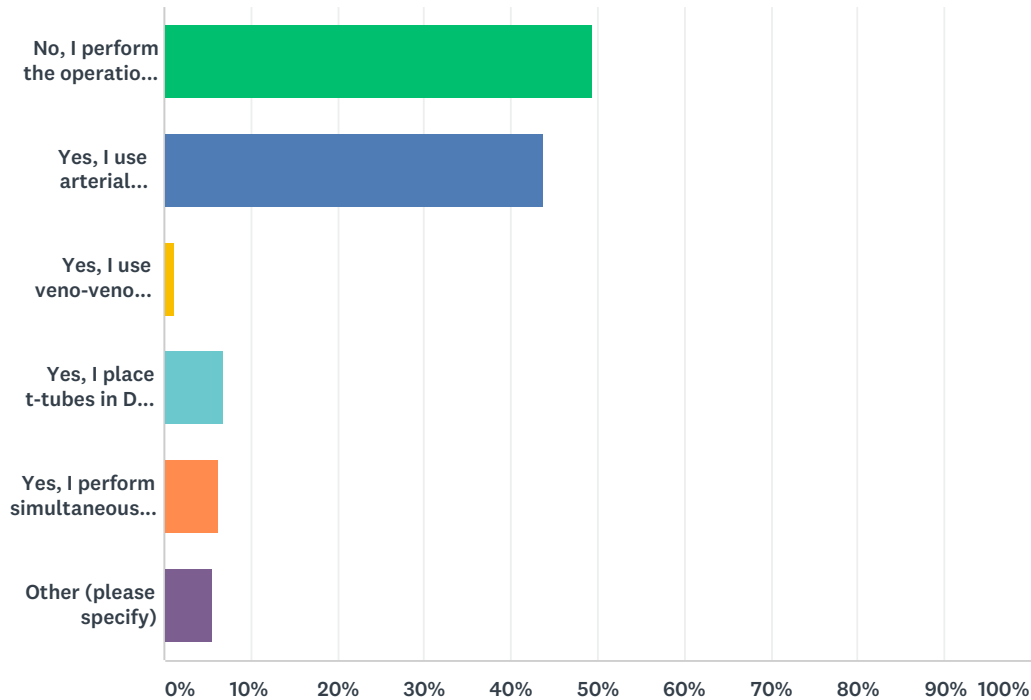
Answered: 158 Skipped: 30



ANSWER CHOICES	RESPONSES	
Yes	84.81%	134
No	15.19%	24
TOTAL		158

Q37 Do you perform the recipient operation differently when using a DCD liver? Select all that apply.

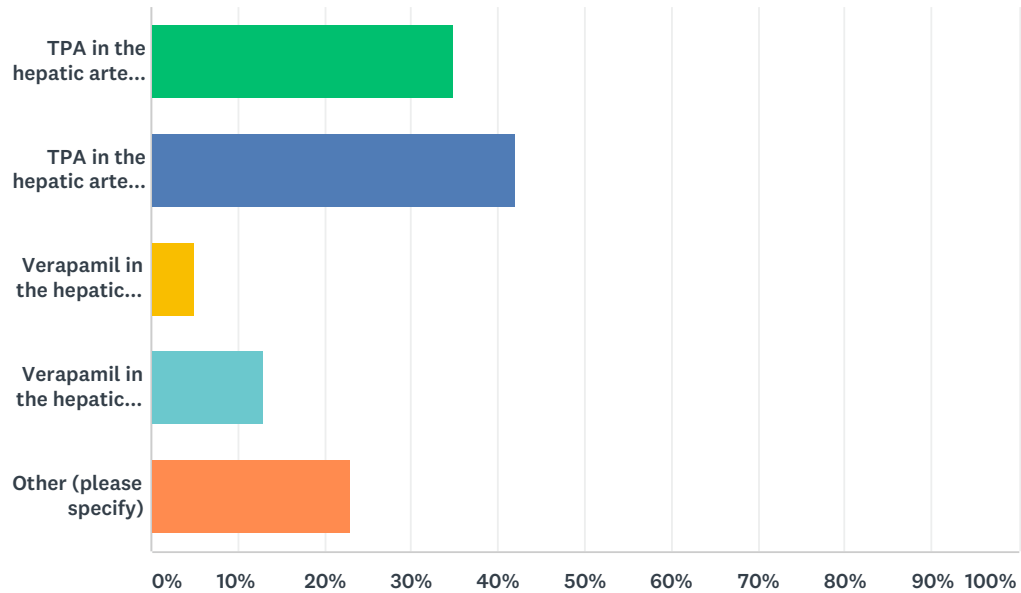
Answered: 158 Skipped: 30



ANSWER CHOICES	RESPONSES	
No, I perform the operation the same way	49.37%	78
Yes, I use arterial infusions (e.g. TPA, verapamil)	43.67%	69
Yes, I use veno-veno bypass	1.27%	2
Yes, I place t-tubes in DCD liver transplants	6.96%	11
Yes, I perform simultaneous arterial/portal reperfusion	6.33%	10
Other (please specify)	5.70%	9
Total Respondents: 158		

Q38 If you perform arterial infusions, what infusions do you use and when? (Select all that apply)

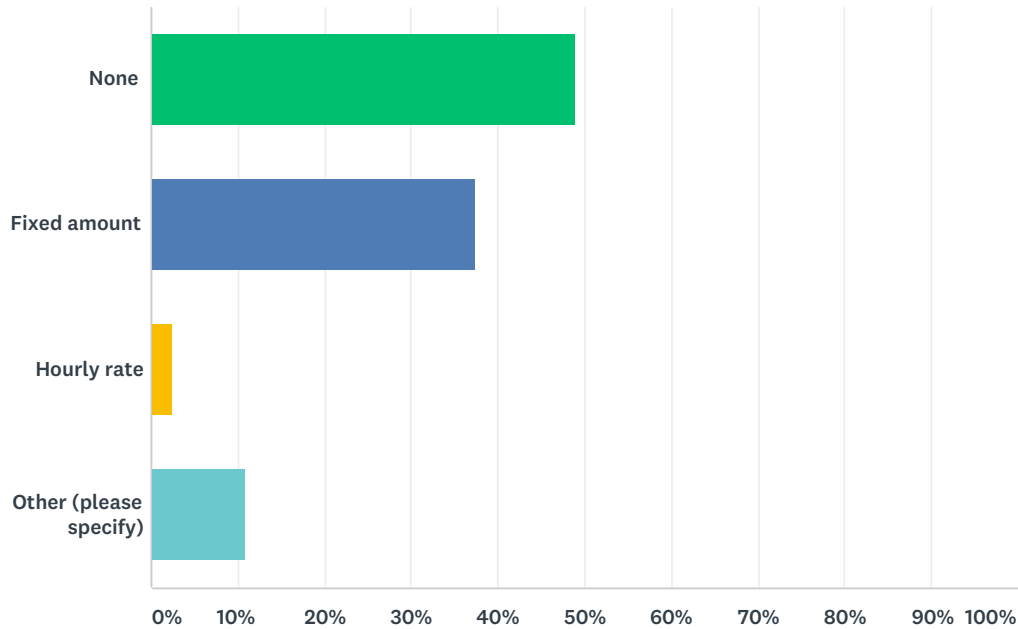
Answered: 100 Skipped: 88



ANSWER CHOICES	RESPONSES	
TPA in the hepatic artery prior to reperfusion	35.00%	35
TPA in the hepatic artery after portal reperfusion, but before arterial reperfusion	42.00%	42
Verapamil in the hepatic artery prior to reperfusion	5.00%	5
Verapamil in the hepatic artery after portal reperfusion, but before arterial reperfusion	13.00%	13
Other (please specify)	23.00%	23
Total Respondents: 100		

Q39 What compensation does your OPO provide for surgeons in cases where the donor does not progress?

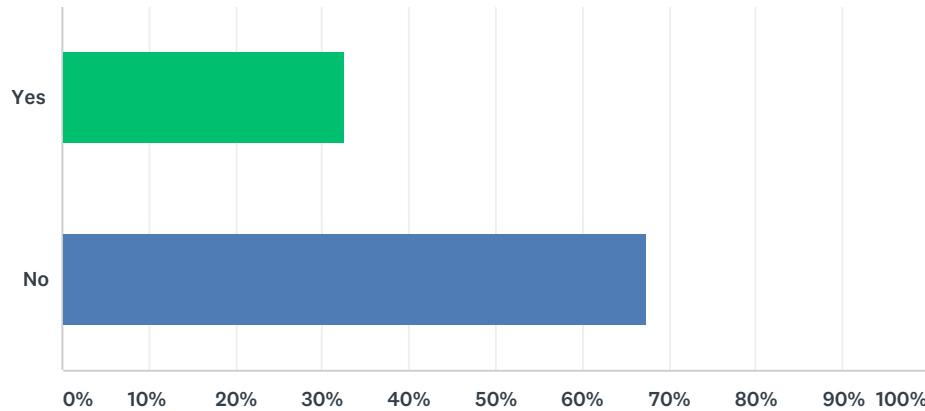
Answered: 155 Skipped: 33



ANSWER CHOICES	RESPONSES	
None	49.03%	76
Fixed amount	37.42%	58
Hourly rate	2.58%	4
Other (please specify)	10.97%	17
TOTAL		155

Q40 Do you feel that the amount of compensation is adequate to incentivize recovery of DCD donors?

Answered: 147 Skipped: 41



ANSWER CHOICES	RESPONSES	
Yes	32.65%	48
No	67.35%	99
TOTAL		147

Q41 What do you believe is the most important organ-recovery factor influencing DCD liver transplant outcomes?

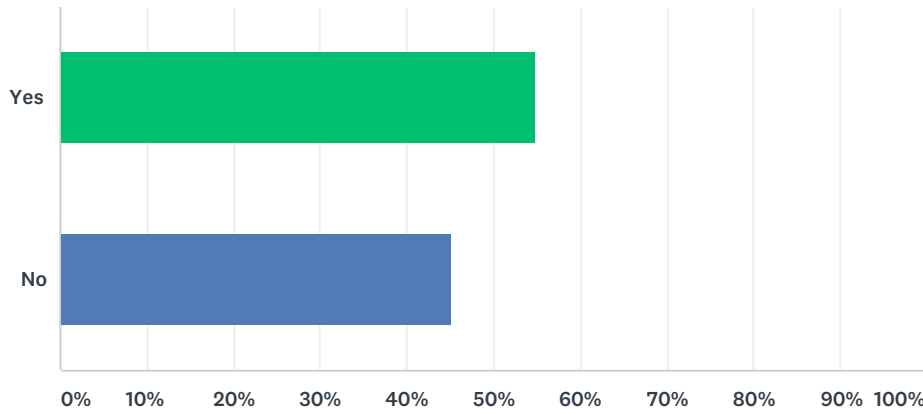
Answered: 136 Skipped: 52

Q42 What is the most important recovery factor to standardize or improve DCD liver outcomes and utilization?

Answered: 126 Skipped: 62

Q43 Would you or another member of your team be interested in attending a hands-on instructions course on DCD donor recoveries?

Answered: 153 Skipped: 35



ANSWER CHOICES	RESPONSES	
Yes	54.90%	84
No	45.10%	69
TOTAL		153