

OPTN Liver and Intestinal Transplantation Committee Update

Winter 2020

Topics:

- National Liver Review Board (NLRB) Data
- Acuity Circles Implementation
 - Overview
 - Other Changes
 - Variances
 - Split liver policy and variances

National Liver Review Board

NLRB Results

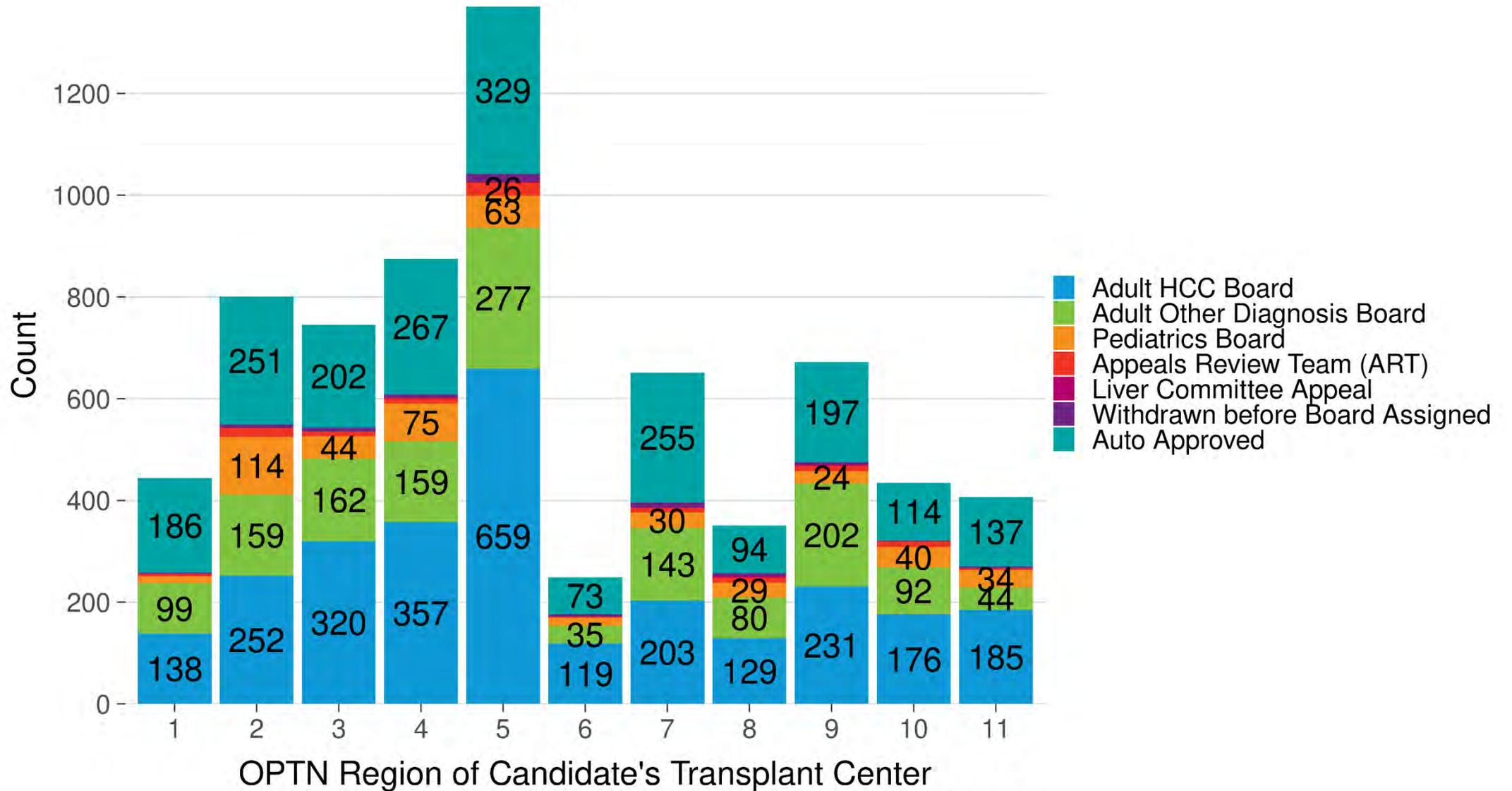
Data from May 14, 2019 (implementation) through November 13, 2019

- 6456 initial and extension forms submitted and resolved
- Of the initial and extension forms submitted to a specialty board for review,
 - 42.1% reviewed by the adult HCC board,
 - 19.0% reviewed by the adult other diagnosis board
 - 3.9% reviewed by the pediatrics board

NLRB Results

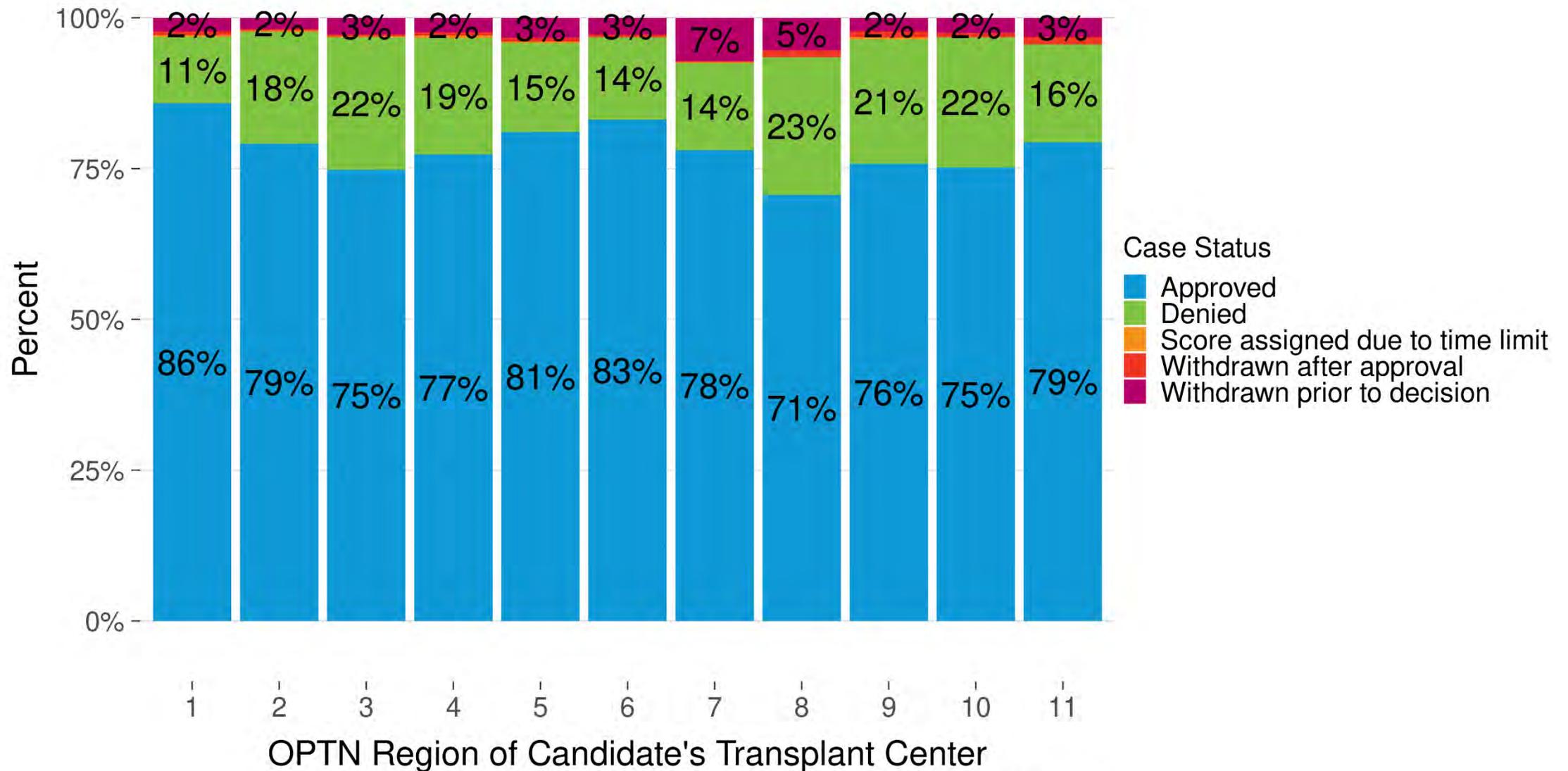
- By exception form type, approval rates were
 - 74.0% for initial forms
 - 87.8% for extension forms
 - 50.0% for appeal forms
- By specialty board, the approval rates were
 - 80.5% for the adult HCC board
 - 54.3% for the adult other diagnosis board
 - 68.7% the pediatrics board

Exception Forms Submitted by OPTN Region and Specialty



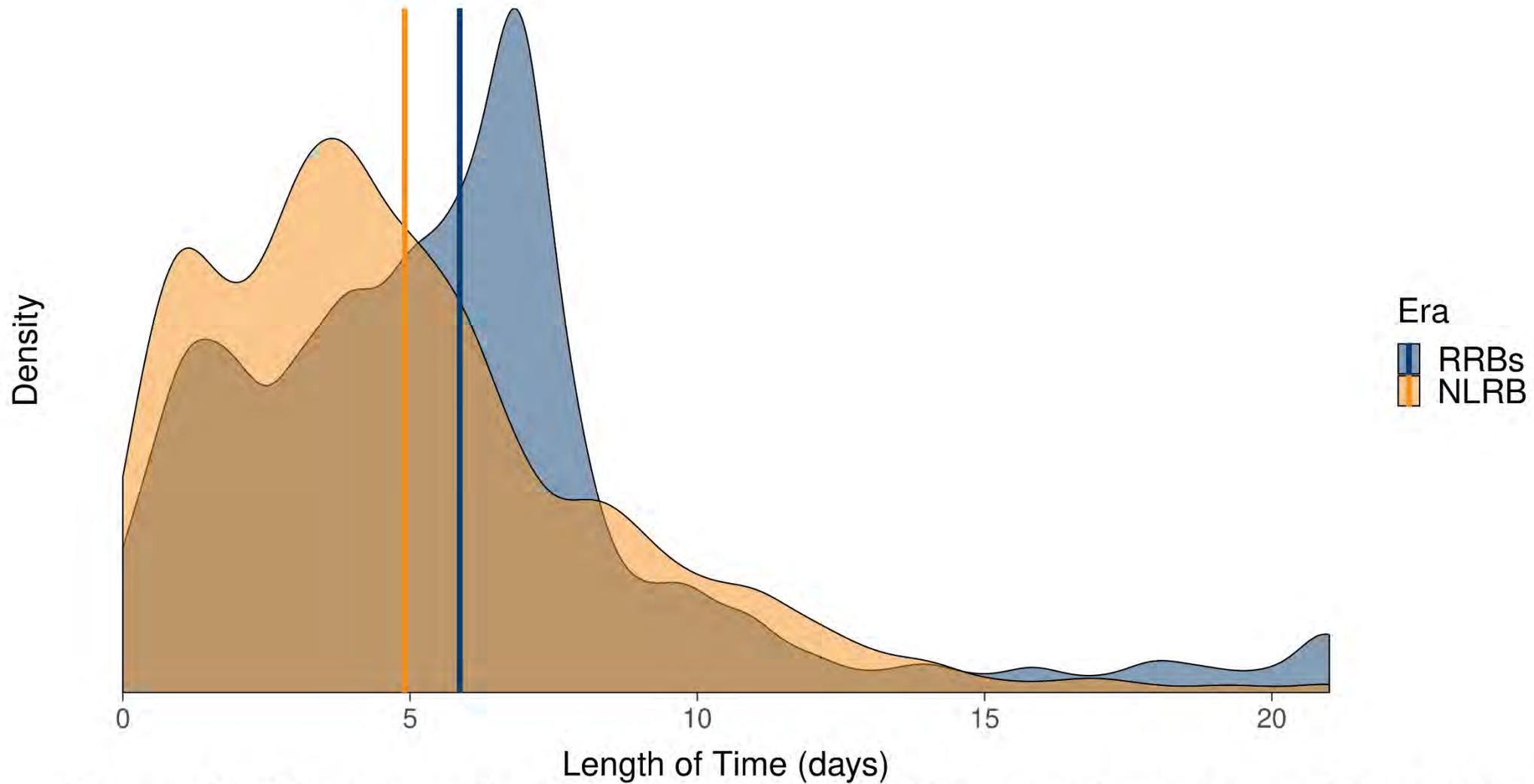
*Groups with N < 20 do not contain counts in graph.

Exception Forms Submitted by OPTN Region and Outcome



**Groups with < 2% do not contain percent labels in graph.*

Total Process Time (Application Date to Decision Date) for Initial and Extension Forms. NLRB 5/14/19-11/13/19 vs Regional Review Boards 11/



There were N=267 forms removed due to missing process time. Vertical lines represent average process times for each era.

Questions

Acuity Circles Implementation

Acuity Circles Implementation

- Implemented on February 4, 2020
- Allocation overview:
 - Status 1A/1B candidates within 500 nautical miles (NM)
 - Following groupings of MELD/PELD scores within 150 NM, 250 NM, then 500 NM
 - MELD/PELD 37 or higher
 - MELD/PELD 33-36
 - MELD/PELD 29-32
 - MELD/PELD 15-28
 - Status 1A/1B for the nation
 - MELD/PELD 15-40 for the nation
 - MELD/PELD 6-14 within 150 NM, 250, NM, 500 NM, then nation
- Will be regularly evaluated

Other Changes

- MMaT scores converted to be based on 250 NM circle
- New allocation sequences for DCD and donors at least 70 years old
 - Offered to more candidates located closer to donor hospital
- Pediatric donors offered to pediatric candidates across the nation before adult candidates
- Donors from Alaska – circle drawn from Sea-Tac

Variations

- HI/PR Variance:
 - To be implemented February 18, 2020
 - Only for candidates with a MELD/PELD of 37 or higher, Status 1A, or Status 1B
 - 1,100 NM circle for candidates in Puerto Rico
 - 2,400 NM circle for candidates in Hawaii
- Region 9, Region 1, and Region 10 variances – terminated upon implementation of Acuity Circles

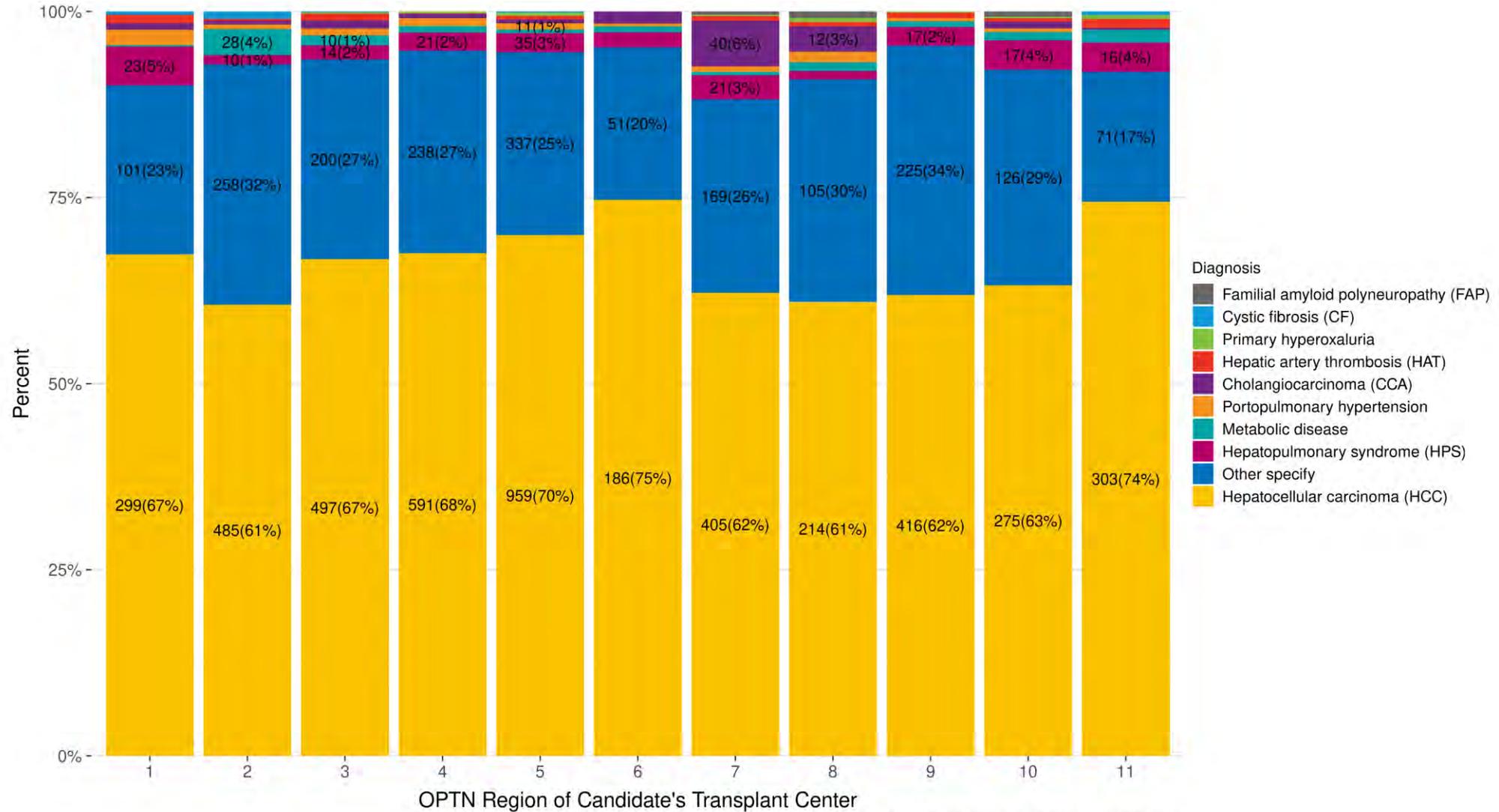
Split Liver Policy and Variances

- **Current policy**
 - Either segment into index candidate
 - Host OPO uses adult deceased donor match run for remaining segment
 - If not allocated by time of procurement, then can be offered to candidates at transplant hospital
- **Current open split liver variance**
 - Right lobe or right tri-segment into index candidate
 - Left lobe or left-lateral segment allocated to candidate at same program or affiliated pediatric component
- **Closed split liver variance (Region 8)**
 - Either segment into index candidate
 - Remaining segment first offered to Status 1A/1B and candidates with MELD/PELD at least 33 and within 500 NM of donor hospital, then may allocate to candidate at same program or affiliated pediatric component

Questions

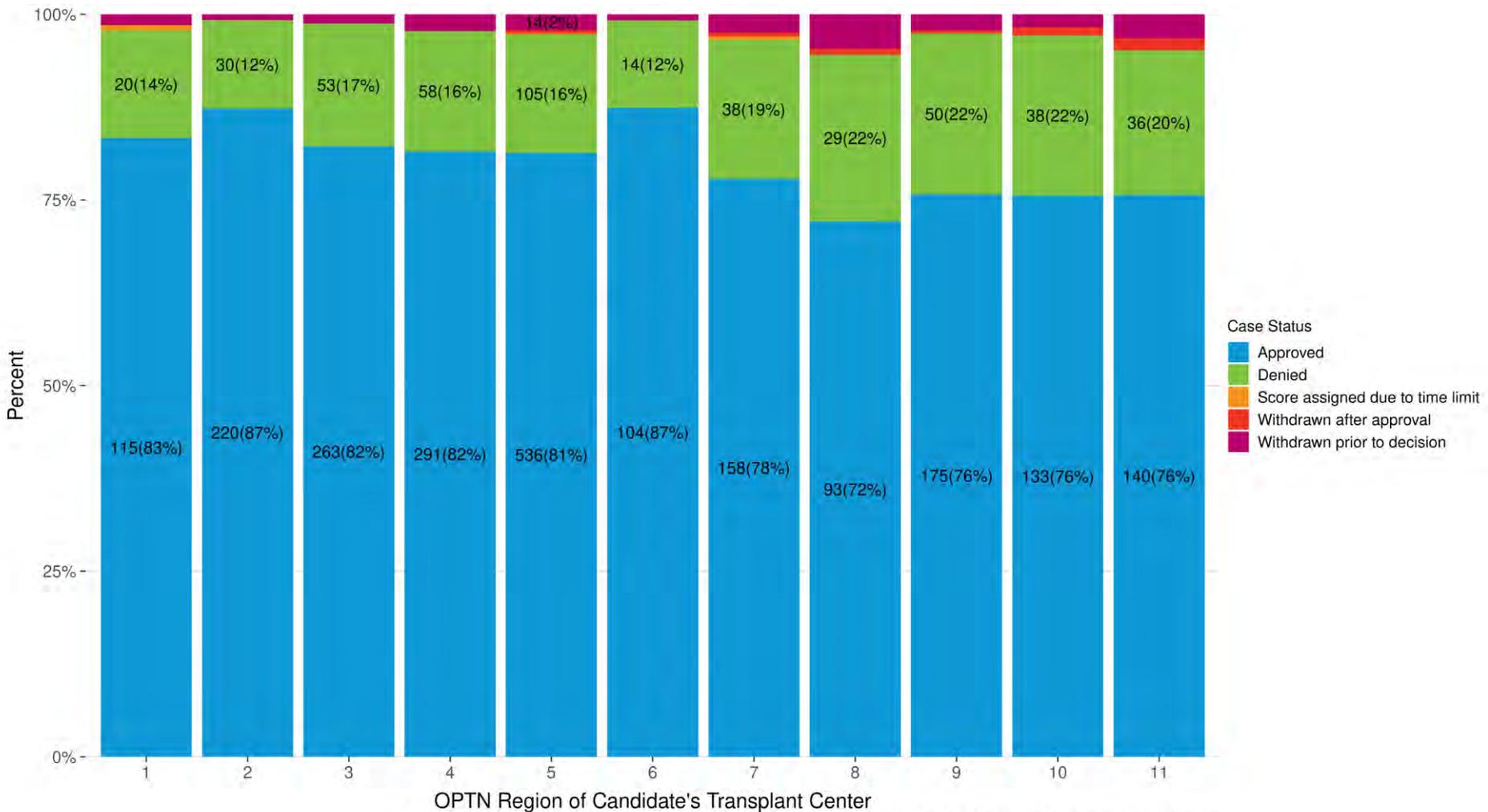
Extra Slides

Exception Forms Submitted by OPTN Region and Diagnosis



*Groups with N < 10 do not contain count/percent labels in graph.

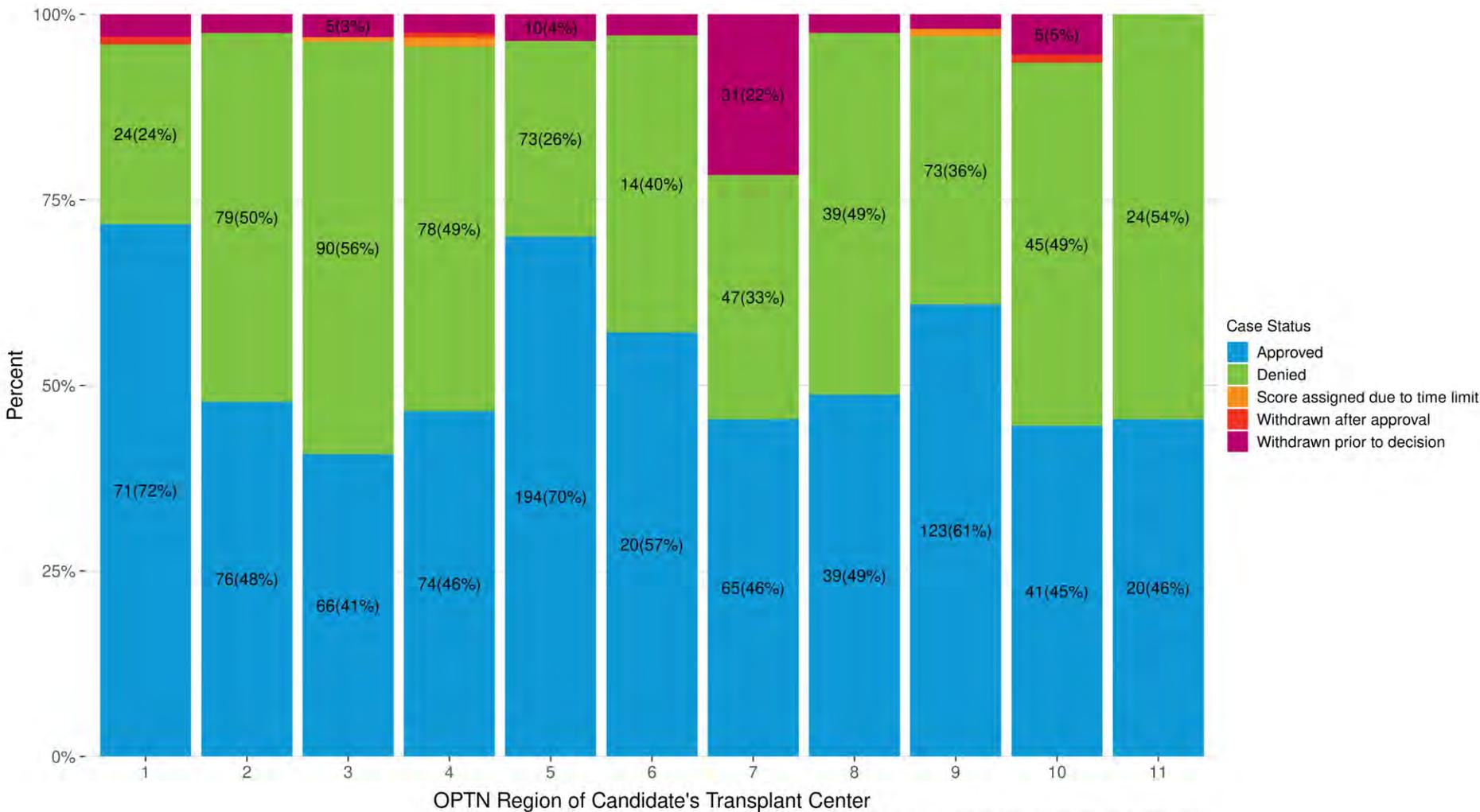
Exception Forms Submitted by OPTN Region and Outcome Adult HCC Review Board



*Groups with N < 10 do not contain count/percent labels in graph.

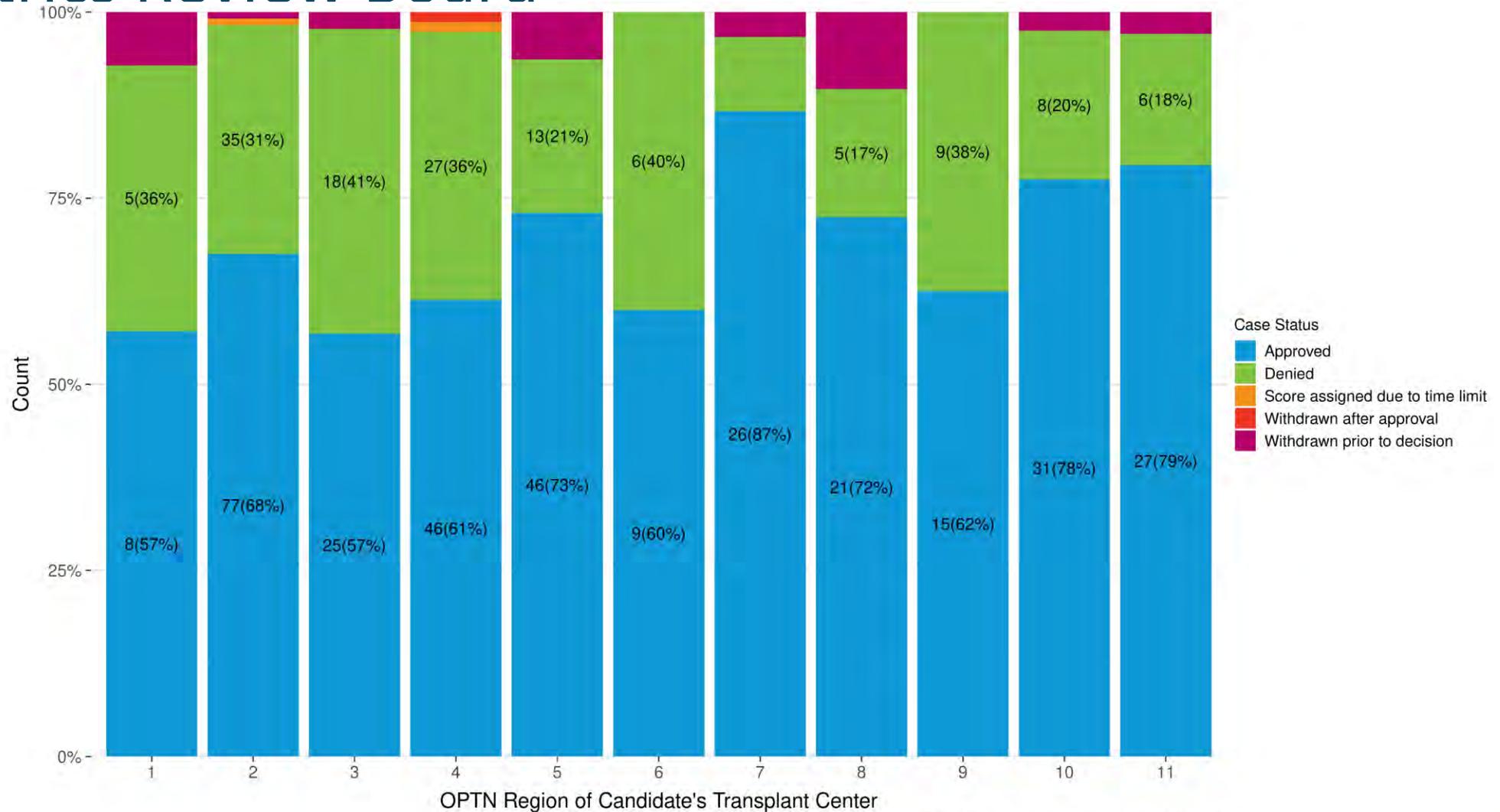
Exception Forms Submitted by OPTN Region and Outcome

Adult Other Review Board



*Groups with N < 5 do not contain count/percent labels in graph.

Exception Forms Submitted by OPTN Region and Outcome Pediatrics Review Board



*Groups with N < 5 do not contain count/percent labels in graph.

Summary of MTS Adjustment for Approved Exception Forms by OPTN Region

OPTN Region	N	Minimum	Mean	Median	Maximum
1	153	-27	-4.7	-3	3
2	250	-24	-3.8	-3	8
3	207	-22	-5.0	-3	7
4	262	-26	-4.5	-3	4
5	575	-29	-5.0	-3	3
6	92	-26	-5.0	-3	0
7	179	-26	-3.0	-3	3
8	104	-25	-6.5	-3	6
9	259	-28	-3.9	-3	3
10	143	-22	-4.1	-3	7
11	108	-23	-4.0	-3	7

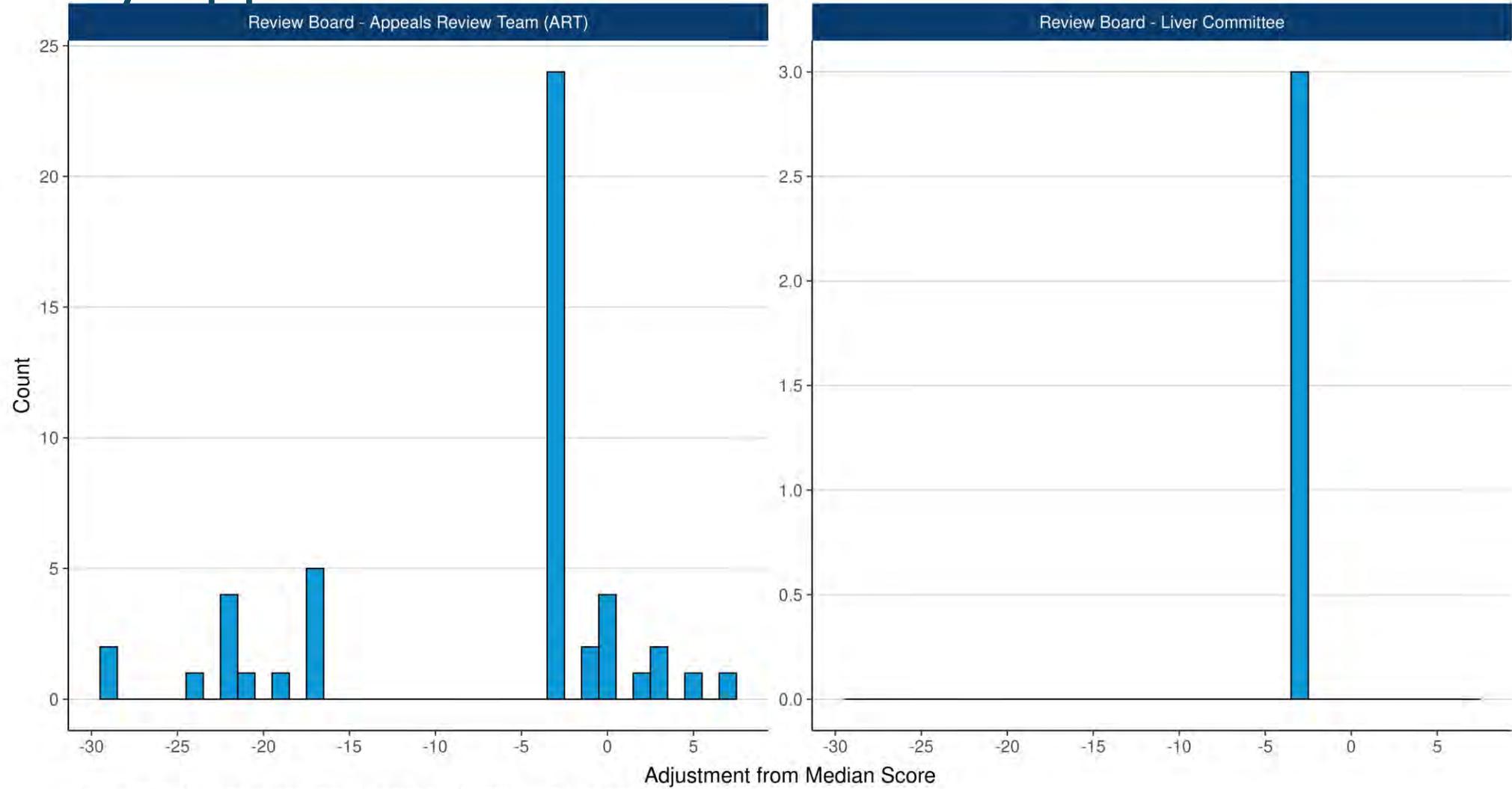
Summary of MELD or PELD Scores for Approved Exception Forms by OPTN Region

OPTN Region	N	Minimum	Mean	Median	Maximum
1	197	6	23.0	29	40
2	384	6	22.6	27	76
3	357	6	16.5	20	60
4	413	6	19.5	27	50
5	788	6	22.8	29	60
6	135	6	19.9	27	40
7	253	6	22.3	28	40
8	157	6	17.2	21	40
9	318	6	26.8	31	79
10	213	6	17.8	22	40
11	188	6	17.4	22	50

Summary of MELD or PELD Scores for Approved Exception Forms by OPTN Region and MELD or PELD

OPTN Region	MELD Exception Request Forms					PELD Exception Request Forms				
	N	Minimum	Mean	Median	Maximum	N	Minimum	Mean	Median	Maximum
1	190	6	22.5	29.0	35	7	32	36.7	35	40
2	333	6	19.6	26.0	40	51	15	41.8	40	76
3	340	6	15.5	16.0	40	17	15	35.8	35	60
4	374	6	17.8	25.0	34	39	18	35.8	36	50
5	753	6	22.2	29.0	40	35	20	35.4	35	60
6	129	6	19.3	27.0	40	6	25	32.5	35	35
7	229	6	21.1	28.0	40	24	20	33.3	35	40
8	146	6	16.1	19.5	40	11	15	31.9	35	40
9	305	6	26.0	31.0	40	13	25	45.4	40	79
10	191	6	15.9	20.0	31	22	21	34.3	35	40
11	171	6	15.7	20.0	35	17	27	34.4	30	50

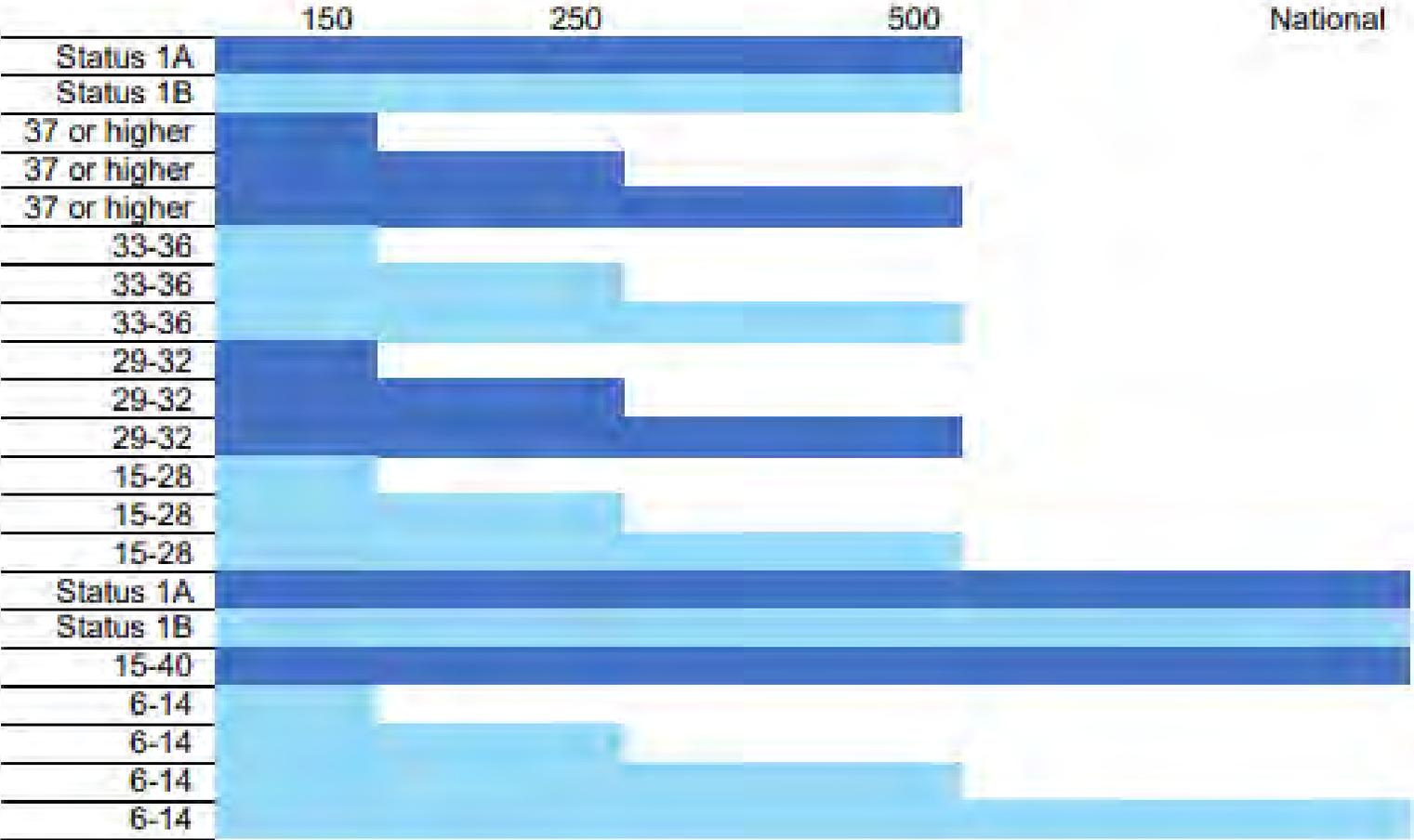
Distribution of MTS Adjustment for Approved Exception Forms by Appeals Review Boards



There were N=1071 forms that are not median score-adjusted and N=2078 forms that were not reviewed due to auto-approval or withdrawal prior to decision and are not included.

Acuity Circles Allocation

Figure 3: Acuity Circles Order of Allocation



Acuity Circles Adult Allocation Sequence

Classification	Candidates that are within this proximity of the donor hospital:	And are:
1	500nm	Adult or pediatric status 1A
2	500nm	Pediatric status 1B
3	150nm	MELD or PELD of at least 37
4	250nm	MELD or PELD of at least 37
5	500nm	MELD or PELD of at least 37
6	150nm	MELD or PELD of at least 33
7	250nm	MELD or PELD of at least 33
8	500nm	MELD or PELD of at least 33
9	150nm	MELD or PELD of at least 29
10	250nm	MELD or PELD of at least 29
11	500nm	MELD or PELD of at least 29
12	150nm	MELD or PELD of at least 15
13	250nm	MELD or PELD of at least 15
14	500nm	MELD or PELD of at least 15
15	National	Adult or Pediatric Status 1A
16	National	Pediatric Status 1B
17	National	MELD or PELD of at least 15
18	150nm	MELD or PELD less than 15
19	250nm	MELD or PELD less than 15
20	500nm	MELD or PELD less than 15
21	National	MELD or PELD less than 15

Acuity DCD/>70 Donor Allocation Sequence

Classification	Candidates that are within this proximity of the donor hospital:	And are:
1	500nm	Adult or Pediatric status 1A
2	500nm	Pediatric status 1B
3	150nm	MELD or PELD of at least 15
4	250nm	MELD or PELD of at least 15
5	500nm	MELD or PELD of at least 15
6	Nation	Adult or Pediatric status 1A
7	Nation	Pediatric status 1B
8	Nation	MELD or PELD of at least 15
9	150nm	MELD or PELD less than 15
10	250nm	MELD or PELD less than 15
11	500nm	MELD or PELD less than 15
12	Nation	MELD or PELD less than 15

Adolescent Donor Allocation Sequence

Classification	Candidates that are within this proximity of the donor hospital:	And are:
1	500nm	Pediatric status 1A
2	500nm	Adult status 1A
3	500nm	Pediatric status 1B
4	500nm	Any PELD
5	500nm	MELD of at least 15 and 12 to 17 years old
6	500nm	MELD less than 15 and 12 to 17 years old
7	Nation	Pediatric status 1A
8	Nation	Adult status 1A
9	Nation	Pediatric status 1B
10	Nation	Any PELD
11	Nation	Any MELD and 12 to 17 years old
12	500nm	MELD of at least 15 and at least 18 years old
13	500nm	MELD less than 15 and at least 18 years old
14	Nation	Any MELD and at least 18 years old

Donor <12 Years Old Allocation Sequence

Classification	Candidates that are within this proximity of the donor hospital:	And are:
1	500nm	Pediatric status 1A
2	Nation	Pediatric status 1A and 0 to 11 years old
3	500nm	Adult status 1A
4	500nm	Pediatric status 1B
5	500nm	Any PELD
6	500nm	MELD of at least 15 and 12 to 17 years old
7	500nm	MELD less than 15 and 12 to 17 years old
8	Nation	Pediatric status 1A and 12 to 17 years old
9	Nation	Adult status 1A
10	Nation	Pediatric status 1B and 0 to 17 years old
11	Nation	Any PELD
12	Nation	Any MELD and 12 to 17 years old
13	500nm	MELD of at least 15 and at least 18 years old
14	500nm	MELD less than 15 and at least 18 years old
15	Nation	Any MELD and at least 18 years old