Supplemental Table 1- Responding Center Characteristics

|  |  |
| --- | --- |
| Transplant Volume in 2020 | n |
| 0-50 | 31 |
| 51-100 | 37 |
| 101+ | 32 |
|  |  |
| Practice Type | % |
| University-based | 65.6 |
| Private | 3.0 |
| Hospital-based | 27.3 |
| Veterans Affairs | 4.0 |
|  |  |
| UNOS Region | n |
| 1 | 5 |
| 2 | 11 |
| 3 | 13 |
| 4 | 8 |
| 5 | 14 |
| 6 | 5 |
| 7 | 10 |
| 8 | 9 |
| 9 | 8 |
| 10 | 8 |
| 11 | 9 |
|  |  |
| Center MMaT Sep 2021 | n |
| <26 | 26 |
| 27-29 | 46 |
| >30 | 28 |
|  |  |
| LT for ALD |  |
| LT volume for ALD (%) | % |
| 0-25 | 18.4 |
| 26-50 | 59.2 |
| 51-75 | 20.4 |
| 76-100 | 2.0 |

UNOS= United Network for Organ Sharing, MMaT= Median Model of End-stage Liver Disease score at Transplant, LT= Liver Transplantation, ALD= Alcohol-related Liver Disease

Supplemental Table 2- Subgroup Analysis of Center Responses by Center Type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Overall N=100 | Non-University N=35 | University N=65 | P-value |
| LT volume for ALD (%) |  |  |  | 0.3 |
| 0-25% | 18 (18.4%) | 8 (24.2%) | 10 (15.4%) |  |
| 26-50% | 58 (59.2%) | 16 (48.5%) | 42 (64.6%) |  |
| 51% or more | 22 (22.4%) | 9 (27.3%) | 13 (20.0%) |  |
| Center Resources for AUD |  |  |  |  |
| Inpatient Detox Facility |  |  |  | 0.42 |
| No | 53 (54.1%) | 17 (48.6%) | 36 (57.1%) |  |
| Yes | 45 (45.9%) | 18 (51.4%) | 27 (42.9%) |  |
| Transplant Psychiatry |  |  |  | 0.89 |
| No | 28 (28.6%) | 10 (29.4%) | 18 (28.1%) |  |
| Yes | 70 (71.4%) | 24 (70.6%) | 46 (71.9%) |  |
| Liaison Psychiatry |  |  |  | 0.27 |
| No | 9 (9.2%) | 5 (14.7%) | 4 (6.3%) |  |
| Yes | 89 (90.8%) | 29 (85.3%) | 60 (93.8%) |  |
| Addiction Medicine |  |  |  | 0.74 |
| No | 21 (21.0%) | 8 (22.9%) | 13 (20.0%) |  |
| Yes | 79 (79.0%) | 27 (77.1%) | 52 (80.0%) |  |
| Addiction Counselor |  |  |  | 0.82 |
| No | 22 (22.2%) | 8 (23.5%) | 14 (21.5%) |  |
| Yes | 77 (77.8%) | 26 (76.5%) | 51 (78.5%) |  |
| Psychologist |  |  |  | 1.0 |
| No | 13 (13.4%) | 4 (11.8%) | 9 (14.3%) |  |
| Yes | 84 (86.6%) | 30 (88.2%) | 54 (85.7%) |  |
| Inpatient Rehabilitation/Treatment Program |  |  |  | 0.82 |
| No | 39 (39.8%) | 13 (38.2%) | 26 (40.6%) |  |
| Yes | 59 (60.2%) | 21 (61.8%) | 38 (59.4%) |  |
| Intensive Outpatient Rehabilitation/Treatment Program |  |  |  | 0.62 |
| No | 32 (32.7%) | 10 (29.4%) | 22 (34.4%) |  |
| Yes | 66 (67.3%) | 24 (70.6%) | 42 (65.6%) |  |
| LT for AAC |  |  |  |  |
| Does your center have a minimum sobriety requirement prior to evaluation/listing for LT? |  |  |  | 0.25 |
| No | 70 (70.0%) | 22 (62.9%) | 48 (73.8%) |  |
| Yes | 30 (30.0%) | 13 (37.1%) | 17 (26.2%) |  |
| Does your center have a protocol in the event of pre-LT alcohol use? |  |  |  | 0.35 |
| No | 26 (26.3%) | 7 (20.6%) | 19 (29.2%) |  |
| Yes | 73 (73.7%) | 27 (79.4%) | 46 (70.8%) |  |
| Does your center have a protocol in the event of post-LT alcohol use? |  |  |  | 0.61 |
| No | 53 (53.5%) | 17 (50.0%) | 36 (55.4%) |  |
| Yes | 46 (46.5%) | 17 (50.0%) | 29 (44.6%) |  |
| LT for Severe AAH |  |  |  |  |
| Does your center perform LT for severe AAH? |  |  |  | 0.23 |
| No | 14 (14.1%) | 7 (20.6%) | 7 (10.8%) |  |
| Yes | 85 (85.9%) | 27 (79.4%) | 58 (89.2%) |  |
| No. of years performing LT for severe AAH |  |  |  | 0.37 |
| 0-5 years | 64 (75.3%) | 22 (81.5%) | 42 (72.4%) |  |
| 6+ years | 21 (24.7%) | 5 (18.5%) | 16 (27.6%) |  |
| No. of patients evaluated for LT for severe AAH per year |  |  |  | 0.19 |
| 0-10 patients | 24 (28.2%) | 11 (40.7%) | 13 (22.4%) |  |
| 11-20 patients | 27 (31.8%) | 8 (29.6%) | 19 (32.8%) |  |
| >20 patients | 34 (40.0%) | 8 (29.6%) | 26 (44.8%) |  |
| No. of patients transplanted for LT for severe AAH per year |  |  |  | 0.64 |
| 0-5 patients | 51 (60.0%) | 18 (66.7%) | 33 (56.9%) |  |
| 6-10 patients | 15 (17.6%) | 3 (11.1%) | 12 (20.7%) |  |
| >10 patients | 19 (22.4%) | 6 (22.2%) | 13 (22.4%) |  |
| Does your center have a protocol for evaluation and transplantation of patients with severe AAH? |  |  |  | 0.74 |
| No | 11 (12.9%) | 4 (14.8%) | 7 (12.1%) |  |
| Yes | 74 (87.1%) | 23 (85.2%) | 51 (87.9%) |  |
| Does your center protocol have a defined metric for "success" in patients undergoing LT for severe AAH? |  |  |  | 0.61 |
| No | 45 (60.8%) | 13 (56.5%) | 32 (62.7%) |  |
| Yes | 29 (39.2%) | 10 (43.5%) | 19 (37.3%) |  |
| Does your center check alcohol biomarkers routinely after LT for severe AAH? |  |  |  | 0.91 |
| No | 31 (41.9%) | 9 (40.9%) | 22 (42.3%) |  |
| Yes | 43 (58.1%) | 13 (59.1%) | 30 (57.7%) |  |

LT- Liver Transplantation, ALD- Alcohol-related Liver Disease, AUD- Alcohol Use Disorder, AAC- Alcohol-associated Cirrhosis, AAH- Alcohol-associated Hepatitis

Supplemental Table 2- Subgroup Analysis of Center Responses by LT Volume

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Overall N=100 | Small  (0-50) N=31 | Medium  (51-100) N=37 | Large  (>100) N=32 | P-value |
| LT volume for ALD (%) |  |  |  |  | 0.42 |
| 0-25% | 18 (18.4%) | 5 (16.7%) | 6 (16.2%) | 7 (22.6%) |  |
| 26-50% | 58 (59.2%) | 15 (50.0%) | 23 (62.2%) | 20 (64.5%) |  |
| 51% or more | 22 (22.4%) | 10 (33.3%) | 8 (21.6%) | 4 (12.9%) |  |
| Center Resources for AUD |  |  |  |  |  |
| Inpatient Detox Facility |  |  |  |  | 0.39 |
| No | 53 (54.1%) | 14 (45.2%) | 19 (54.3%) | 20 (62.5%) |  |
| Yes | 45 (45.9%) | 17 (54.8%) | 16 (45.7%) | 12 (37.5%) |  |
| Transplant Psychiatry |  |  |  |  | 0.32 |
| No | 28 (28.6%) | 10 (34.5%) | 12 (32.4%) | 6 (18.8%) |  |
| Yes | 70 (71.4%) | 19 (65.5%) | 25 (67.6%) | 26 (81.3%) |  |
| Liaison Psychiatry |  |  |  |  | 0.26 |
| No | 9 (9.2%) | 1 (3.2%) | 3 (8.6%) | 5 (15.6%) |  |
| Yes | 89 (90.8%) | 30 (96.8%) | 32 (91.4%) | 27 (84.4%) |  |
| Addiction Medicine |  |  |  |  | 0.19 |
| No | 21 (21.0%) | 6 (19.4%) | 5 (13.5%) | 10 (31.3%) |  |
| Yes | 79 (79.0%) | 25 (80.6%) | 32 (86.5%) | 22 (68.8%) |  |
| Addiction Counselor |  |  |  |  | 0.11 |
| No | 22 (22.2%) | 4 (13.3%) | 7 (18.9%) | 11 (34.4%) |  |
| Yes | 77 (77.8%) | 26 (86.7%) | 30 (81.1%) | 21 (65.6%) |  |
| Psychologist |  |  |  |  | 0.11 |
| No | 13 (13.4%) | 1 (3.4%) | 5 (13.9%) | 7 (21.9%) |  |
| Yes | 84 (86.6%) | 28 (96.6%) | 31 (86.1%) | 25 (78.1%) |  |
| Inpatient Rehabilitation/Treatment Program |  |  |  |  | 0.42 |
| No | 39 (39.8%) | 9 (30.0%) | 16 (44.4%) | 14 (43.8%) |  |
| Yes | 59 (60.2%) | 21 (70.0%) | 20 (55.6%) | 18 (56.3%) |  |
| Intensive Outpatient Rehabilitation/Treatment Program |  |  |  |  | 0.35 |
| No | 32 (32.7%) | 7 (23.3%) | 12 (33.3%) | 13 (40.6%) |  |
| Yes | 66 (67.3%) | 23 (76.7%) | 24 (66.7%) | 19 (59.4%) |  |
| LT for AAC |  |  |  |  |  |
| Does your center have a minimum sobriety requirement prior to evaluation/listing for LT? |  |  |  |  | 0.21 |
| No | 70 (70.0%) | 21 (67.7%) | 23 (62.2%) | 26 (81.3%) |  |
| Yes | 30 (30.0%) | 10 (32.3%) | 14 (37.8%) | 6 (18.8%) |  |
| Does your center have a protocol in the event of pre-LT alcohol use? |  |  |  |  | 0.99 |
| No | 26 (26.3%) | 8 (25.8%) | 10 (27.0%) | 8 (25.8%) |  |
| Yes | 73 (73.7%) | 23 (74.2%) | 27 (73.0%) | 23 (74.2%) |  |
| Does your center have a protocol in the event of post-LT alcohol use? |  |  |  |  | 0.29 |
| No | 53 (53.5%) | 20 (64.5%) | 19 (51.4%) | 14 (45.2%) |  |
| Yes | 46 (46.5%) | 11 (35.5%) | 18 (48.6%) | 17 (54.8%) |  |
| LT for Severe AAH |  |  |  |  |  |
| Does your center perform LT for severe AAH? |  |  |  |  | 0.44 |
| No | 14 (14.1%) | 6 (19.4%) | 3 (8.1%) | 5 (16.1%) |  |
| Yes | 85 (85.9%) | 25 (80.6%) | 34 (91.9%) | 26 (83.9%) |  |
| No. of years performing LT for severe AAH |  |  |  |  | 0.30 |
| 0-5 years | 64 (75.3%) | 21 (84.0%) | 26 (76.5%) | 17 (65.4%) |  |
| 6+ years | 21 (24.7%) | 4 (16.0%) | 8 (23.5%) | 9 (34.6%) |  |
| No. of patients evaluated for LT for severe AAH per year |  |  |  |  | 0.13 |
| 0-10 patients | 24 (28.2%) | 10 (40.0%) | 11 (32.4%) | 3 (11.5%) |  |
| 11-20 patients | 27 (31.8%) | 8 (32.0%) | 11 (32.4%) | 8 (30.8%) |  |
| >20 patients | 34 (40.0%) | 7 (28.0%) | 12 (35.3%) | 15 (57.7%) |  |
| No. of patients transplanted for LT for severe AAH per year |  |  |  |  | 0.26 |
| 0-5 patients | 51 (60.0%) | 19 (76.0%) | 20 (58.8%) | 12 (46.2%) |  |
| 6-10 patients | 15 (17.6%) | 3 (12.0%) | 7 (20.6%) | 5 (19.2%) |  |
| >10 patients | 19 (22.4%) | 3 (12.0%) | 7 (20.6%) | 9 (34.6%) |  |
| Does your center have a protocol for evaluation and transplantation of patients with severe AAH? |  |  |  |  | 0.72 |
| No | 11 (12.9%) | 4 (16.0%) | 5 (14.7%) | 2 (7.7%) |  |
| Yes | 74 (87.1%) | 21 (84.0%) | 29 (85.3%) | 24 (92.3%) |  |
| Does your center protocol have a defined metric for "success" in patients undergoing LT for severe AAH? |  |  |  |  | 0.77 |
| No | 45 (60.8%) | 12 (57.1%) | 17 (58.6%) | 16 (66.7%) |  |
| Yes | 29 (39.2%) | 9 (42.9%) | 12 (41.4%) | 8 (33.3%) |  |
| Does your center check alcohol biomarkers routinely after LT for severe AAH? |  |  |  |  | 0.43 |
| No | 31 (41.9%) | 7 (31.8%) | 14 (50.0%) | 10 (41.7%) |  |
| Yes | 43 (58.1%) | 15 (68.2%) | 14 (50.0%) | 14 (58.3%) |  |

LT- Liver Transplantation, ALD- Alcohol-related Liver Disease, AUD- Alcohol Use Disorder, AAC- Alcohol-associated Cirrhosis, AAH- Alcohol-associated Hepatitis

Supplemental Table 3- Subgroup Analysis of Center Response by Median MELD-Na at Transplant

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Overall N=100 | MMaT<=26 N=26 | MMaT  27-29 N=46 | MMaT  >=30 N=28 | P-value |
| LT volume for ALD (%) |  |  |  |  | 0.12 |
| 0-25% | 18 (18.4%) | 7 (26.9%) | 4 (9.1%) | 7 (25.0%) |  |
| 26-50% | 58 (59.2%) | 16 (61.5%) | 29 (65.9%) | 13 (46.4%) |  |
| 51% or more | 22 (22.4%) | 3 (11.5%) | 11 (25.0%) | 8 (28.6%) |  |
| Center Resources |  |  |  |  |  |
| Inpatient Detox Facility |  |  |  |  | 0.64 |
| No | 53 (54.1%) | 16 (61.5%) | 23 (50.0%) | 14 (53.8%) |  |
| Yes | 45 (45.9%) | 10 (38.5%) | 23 (50.0%) | 12 (46.2%) |  |
| Transplant Psychiatry |  |  |  |  | 0.14 |
| No | 28 (28.6%) | 9 (36.0%) | 15 (33.3%) | 4 (14.3%) |  |
| Yes | 70 (71.4%) | 16 (64.0%) | 30 (66.7%) | 24 (85.7%) |  |
| Liaison Psychiatry |  |  |  |  | 0.41 |
| No | 9 (9.2%) | 2 (7.7%) | 6 (13.3%) | 1 (3.7%) |  |
| Yes | 89 (90.8%) | 24 (92.3%) | 39 (86.7%) | 26 (96.3%) |  |
| Addiction Medicine |  |  |  |  | 0.28 |
| No | 21 (21.0%) | 7 (26.9%) | 11 (23.9%) | 3 (10.7%) |  |
| Yes | 79 (79.0%) | 19 (73.1%) | 35 (76.1%) | 25 (89.3%) |  |
| Addiction Counselor |  |  |  |  | 0.11 |
| No | 22 (22.2%) | 9 (34.6%) | 10 (22.2%) | 3 (10.7%) |  |
| Yes | 77 (77.8%) | 17 (65.4%) | 35 (77.8%) | 25 (89.3%) |  |
| Psychologist |  |  |  |  | 0.86 |
| No | 13 (13.4%) | 4 (16.0%) | 6 (13.3%) | 3 (11.1%) |  |
| Yes | 84 (86.6%) | 21 (84.0%) | 39 (86.7%) | 24 (88.9%) |  |
| Inpatient Rehabilitation/Treatment Program |  |  |  |  | 0.43 |
| No | 39 (39.8%) | 13 (50.0%) | 17 (37.8%) | 9 (33.3%) |  |
| Yes | 59 (60.2%) | 13 (50.0%) | 28 (62.2%) | 18 (66.7%) |  |
| Intensive Outpatient Rehabilitation/Treatment Program |  |  |  |  | 0.08 |
| No | 32 (32.7%) | 13 (50.0%) | 11 (24.4%) | 8 (29.6%) |  |
| Yes | 66 (67.3%) | 13 (50.0%) | 34 (75.6%) | 19 (70.4%) |  |
| LT for AAC |  |  |  |  |  |
| Does your center have a minimum sobriety requirement prior to evaluation/listing for LT? |  |  |  |  | 0.47 |
| No | 70 (70.0%) | 17 (65.4%) | 35 (76.1%) | 18 (64.3%) |  |
| Yes | 30 (30.0%) | 9 (34.6%) | 11 (23.9%) | 10 (35.7%) |  |
| Does your center have a protocol in the event of pre-LT alcohol use? |  |  |  |  | 0.92 |
| No | 16 (34.8%) | 7 (38.9%) | 6 (31.6%) | 3 (33.3%) |  |
| Yes | 30 (65.2%) | 11 (61.1%) | 13 (68.4%) | 6 (66.7%) |  |
| Does your center have a protocol in the event of post-LT alcohol use? |  |  |  |  | 0.14 |
| No | 26 (26.3%) | 4 (15.4%) | 16 (35.6%) | 6 (21.4%) |  |
| Yes | 73 (73.7%) | 22 (84.6%) | 29 (64.4%) | 22 (78.6%) |  |
| LT for Severe AAH |  |  |  |  |  |
| Does your center perform LT for severe AAH? |  |  |  |  | 0.87 |
| No | 14 (14.1%) | 4 (15.4%) | 7 (15.6%) | 3 (10.7%) |  |
| Yes | 85 (85.9%) | 22 (84.6%) | 38 (84.4%) | 25 (89.3%) |  |
| No. of years performing LT for severe AAH |  |  |  |  | 0.20 |
| 0-5 years | 64 (75.3%) | 19 (86.4%) | 29 (76.3%) | 16 (64.0%) |  |
| 6+ years | 21 (24.7%) | 3 (13.6%) | 9 (23.7%) | 9 (36.0%) |  |
| No. of patients evaluated for LT for severe AAH per year |  |  |  |  | 0.19 |
| 0-10 patients | 24 (28.2%) | 8 (36.4%) | 9 (23.7%) | 7 (28.0%) |  |
| 11-20 patients | 27 (31.8%) | 8 (36.4%) | 15 (39.5%) | 4 (16.0%) |  |
| >20 patients | 34 (40.0%) | 6 (27.3%) | 14 (36.8%) | 14 (56.0%) |  |
| No. of patients transplanted for LT for severe AAH per year |  |  |  |  | 0.62 |
| 0-5 patients | 51 (60.0%) | 13 (59.1%) | 23 (60.5%) | 15 (60.0%) |  |
| 6-10 patients | 15 (17.6%) | 6 (27.3%) | 6 (15.8%) | 3 (12.0%) |  |
| >10 patients | 19 (22.4%) | 3 (13.6%) | 9 (23.7%) | 7 (28.0%) |  |
| Does your center have a protocol for evaluation and transplantation of patients with severe AAH? |  |  |  |  | 0.35 |
| No | 11 (12.9%) | 1 (4.5%) | 7 (18.4%) | 3 (12.0%) |  |
| Yes | 74 (87.1%) | 21 (95.5%) | 31 (81.6%) | 22 (88.0%) |  |
| Does your center protocol have a defined metric for "success" in patients undergoing LT for severe AAH? |  |  |  |  | 0.35 |
| No | 45 (60.8%) | 15 (71.4%) | 19 (61.3%) | 11 (50.0%) |  |
| Yes | 29 (39.2%) | 6 (28.6%) | 12 (38.7%) | 11 (50.0%) |  |
| Does your center check alcohol biomarkers routinely after LT for severe AAH? |  |  |  |  | 0.45 |
| No | 31 (41.9%) | 9 (47.4%) | 16 (45.7%) | 6 (30.0%) |  |
| Yes | 43 (58.1%) | 10 (52.6%) | 19 (54.3%) | 14 (70.0%) |  |

MMaT- Median Model of End-stage Liver Disease Score at Transplant, LT- Liver Transplantation, ALD- Alcohol-related Liver Disease, AUD- Alcohol Use Disorder, AAC- Alcohol-associated Cirrhosis, AAH- Alcohol-associated Hepatitis