

eTable 1: Demographic and cancer information regarding esophageal cancer patients

| | Esophageal Cancer | | | |
|---|-------------------------------|-------------------------|--------------------------------|----------|
| | Morbidly Obese n=92 (1.0%) | Obese n = 276 (3.0%) | Non-obese n = 8,961 (96.0%) | P-value* |
| Age at Diagnosis, mean ± SD | 61.5 ± 11.0 | 63.8 ± 11.0 | 68.9 ± 12.2 | <0.01 |
| Male Gender | 65 (71.4%) | 225 (80.9%) | 6,575 (74.8%) | 0.10 |
| Race | | | | |
| White | 69 (75.8%) | 216 (77.7%) | 6,420 (73.0%) | |
| Black | 3 (3.3%) | 13 (4.7%) | 545 (6.2%) | |
| Others | 19 (20.9%) | 49 (17.6%) | 1,827 (20.8%) | 0.15 |
| AJCC Stage at Diagnosis# | | | | |
| 0 | 48 (1.5%) | 2 (1.9%) | 48 (1.5%) | 0.31 |
| I | 381 (11.5%) | 19 (17.8%) | 381 (11.5%) | |
| II | 706 (21.4%) | 24 (22.4%) | 706 (21.4%) | |
| III | 772 (23.4%) | 24 (22.4%) | 772 (23.4%) | |
| IV | 1,394 (42.2%) | 38 (35.5%) | 1,394 (42.2%) | |
| Tumor Histology# | | | | |
| Well differentiated | 5 (5.5%) | 19 (6.8%) | 373 (4.2%) | 0.01 |
| Moderately well differentiated | 25 (27.5%) | 106 (38.1%) | 2,734 (31.1%) | |
| Poorly differentiated | 46 (50.6%) | 110 (39.6%) | 3,652 (41.5%) | |
| Undifferentiated / anaplastic | 1 (1.1%) | 3 (1.1%) | 143 (1.6%) | |
| Smoking | 31 (34.1%) | 138 (49.6%) | 3,301 (37.6%) | <0.01 |
| Alcoholism | 4 (4.4%) | 25 (9.0%) | 771 (8.8%) | 0.55 |

*P-value denotes comparison between obese and non-obese patients.

Missing information regarding staging is present in 5,830 (62.5%); patients; missing information regarding histology is present in 1,978 (21.2%) patients

eTable 2: Demographic and cancer information regarding gastric cancer patients

| | Gastric Cancer | | | |
|---|--------------------------------|-------------------------|---------------------------------|----------|
| | Morbidly Obese n=224 (1.1%) | Obese n = 760 (3.8%) | Non-obese n = 19,271 (95.1%) | P-value* |
| Age at Diagnosis, mean ± SD | 63.1 ± 11.9 | 65.2 ± 12.4 | 68.5 ± 14.5 | <0.01 |
| Male Gender | 109 (48.7%) | 401 (52.8%) | 11,640 (60.4%) | <0.01 |
| Race | | | | |
| White | 131 (58.5%) | 383 (50.4%) | 8,593 (44.6%) | <0.01 |
| Black | 28 (12.5%) | 82 (10.8%) | 1,380 (7.2%) | |
| Others | 65 (29.0%) | 295 (38.8%) | 9,298 (48.3%) | |
| AJCC Stage at Diagnosis# | | | | |
| 0 | 104 (1.9%) | 4 (2.1%) | 104 (1.9%) | <0.01 |
| I | 1,223 (21.9%) | 53 (28.2%) | 1,223 (21.9%) | |
| II | 594 (10.7%) | 24 (12.8%) | 594 (10.7%) | |
| III | 721 (12.9%) | 29 (15.4%) | 721 (12.9%) | |
| IV | 2,932 (52.6%) | 78 (41.5%) | 2,932 (52.6%) | |
| Tumor Histology# | | | | |
| Well differentiated | 9 (4.0%) | 48 (6.3%) | 772 (4.0%) | <0.01 |
| Moderately well differentiated | 52 (23.2%) | 170 (22.4%) | 3,745 (19.4%) | |
| Poorly differentiated | 93 (41.5%) | 383 (50.4%) | 10,268 (53.3%) | |
| Undifferentiated / anaplastic | 3 (1.3%) | 17 (2.2%) | 419 (2.2%) | |
| Smoking | 61 (27.2%) | 240 (31.6%) | 4,236 (22.0%) | <0.01 |
| Alcoholism | 10 (4.5%) | 35 (4.6%) | 712 (3.7%) | 0.37 |

*P-value denotes comparison between obese and non-obese patients.

Staging information is missing in 14,425 (71.2%) patients; histology information is missing in 4,183 (20.7%) patients

eTable 3: Demographic and cancer information regarding pancreatic cancer patients

| | Pancreatic Cancer | | | P-value* |
|---|--------------------------------|-------------------------|---------------------------------|----------|
| | Morbidly Obese n=277 (1.0%) | Obese n = 940 (3.4%) | Non-obese n = 26,723 (95.6%) | |
| Age at Diagnosis, mean ± SD | 62.5 ± 11.8 | 66.3 ± 11.7 | 70.6 ± 12.8 | <0.01 |
| Early Onset (<50 years) | 32 (11.6%) | 79 (8.4%) | 1,628 (6.1%) | <0.01 |
| Male Gender | 101 (32.5%) | 394 (41.9%) | 13,065 (48.9%) | <0.01 |
| Race | | | | |
| White | 185 (66.8%) | 599 (63.7%) | 17,388 (65.1%) | 0.05 |
| Black | 28 (10.1%) | 93 (9.9%) | 2,064 (7.7%) | |
| Others | 64 (23.1%) | 248 (26.4%) | 7,271 (27.2%) | |
| AJCC Stage at Diagnosis# | | | | |
| 0 | 2 (1.7%) | 1 (0.4%) | 51 (0.5%) | 0.38 |
| I | 14 (11.8%) | 41 (14.5%) | 1,106 (10.9%) | |
| II | 24 (20.2%) | 42 (14.9%) | 1,698 (16.7%) | |
| III | 6 (5.0%) | 29 (10.3%) | 1,144 (11.2%) | |
| IV | 73 (61.3%) | 169 (59.9%) | 6,188 (60.7%) | |
| Tumor Histology# | | | | |
| Well differentiated | 21 (7.6%) | 67 (7.1%) | 1,281 (4.8%) | 0.01 |
| Moderately well differentiated | 50 (18.1%) | 162 (17.2%) | 3,507 (13.1%) | |
| Poorly differentiated | 42 (15.2%) | 142 (15.1%) | 3,467 (13.0%) | |
| Undifferentiated / anaplastic | 3 (1.1%) | 9 (1.0%) | 304 (1.1%) | |
| Smoking | 68 (24.6%) | 296 (31.5%) | 5,644 (21.1%) | <0.01 |
| Alcoholism | 9 (3.3%) | 46 (4.9%) | 1,131 (4.2%) | 0.48 |
| | | | | |

| | Pancreatic Cancer | | | |
|--|--------------------------|--|--|--|
| | | | | |

*P-value denotes comparison between obese and non-obese patients.

Missing information regarding staging is present in 17,462 (62.5%) patients; missing information regarding histology is present in 5,979 (21.4%) patients

eTable 4: Demographic and cancer information regarding colorectal cancer patients

| | Colorectal Cancer | | | |
|---|-----------------------------------|--------------------------|---------------------------------|----------|
| | Morbidly Obese n=2,109 (1.92%) | Obese n=6,232 (5.66%) | Non-obese n=101,718 (92.42%) | P-value* |
| Age at Diagnosis, mean ± SD | 62.6 ± 11.6 | 65.3 ± 11.9 | 69.2 ± 14.0 | <0.01 |
| Early onset (<50 y/o) | 262 (12.4%) | 576 (9.2%) | 9,604 (9.4%) | <0.01 |
| Male Gender | 890 (42.2%) | 2,959 (47.5%) | 51,347 (50.5%) | <0.01 |
| Race | | | | |
| White | 1,428 (67.7%) | 4,073 (65.4%) | 66,569 (65.4%) | <0.01 |
| Black | 210 (10.0%) | 595 (9.6%) | 7,119 (7.0%) | |
| Others | 471 (22.3%) | 1,564 (25.1%) | 28,030 (27.6%) | |
| AJCC Stage at Diagnosis# | | | | |
| 0 | 39 (8.2%) | 81 (6.6%) | 1,536 (6.3%) | <0.01 |
| I | 141 (29.6%) | 377 (30.6%) | 6,266 (25.9%) | |
| II | 114 (24.0%) | 318 (25.8%) | 5,901 (24.4%) | |
| III | 86 (18.1%) | 252 (20.4%) | 4,234 (17.5%) | |
| IV | 96 (20.2%) | 205 (16.6%) | 6,302 (26.0%) | |
| Tumor Histology# | | | | |
| Well differentiated | 199 (9.4%) | 578 (9.3%) | 8,604 (8.5%) | <0.01 |
| Moderately well differentiated | 1,283 (60.8%) | 3,841 (61.6%) | 59,637 (58.6%) | |
| Poorly differentiated | 335 (15.9%) | 988 (15.9%) | 17,260 (17.0%) | |
| Undifferentiated / anaplastic | 23 (1.1%) | 68 (1.1%) | 1,231 (1.2%) | |
| Smoking | 448 (21.2%) | 1,676 (26.9%) | 18,734 (18.4%) | <0.01 |
| Alcoholism | 49 (2.3%) | 188 (3.0%) | 2,606 (2.6%) | 0.12 |
| Ulcerative Colitis | 18 (0.9%) | 31 (0.5%) | 548 (0.5%) | 0.56 |
| | | | | |

*P-value denotes comparison between obese and non-obese patients.

Missing information regarding staging is present in 68,786 (62.5%); patients; missing information regarding histology is present in 23,332 (21.2%) patients