Supplemental Table 1. Characteristics of patients between patients without and with data missing.

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| Variable | Missing-  (n=3551) | Missing+  (n=1386) | *p* |
| Age (years) | 59 (39-73) | 58 (41-72) | 0.704\* |
| Gender (male) | 2270/3551 (64%) | 870/1386 (63%) | 0.448† |
| Onset year  2004-2007  2008-2011  2012-2015 | 537/3551 (15%)  1304/3551 (37%)  1710/3551 (48%) | 181/1386 (13%)  545/1386 (39%)  660/1386 (48%) |  |
| Mechanism of Injury (blunt) | 3002/3549 (85%) | 1159/1381 (84%) | 0.565† |
| Cause of injury  Motor vehicle  Bike  Bicycle  Pedestrian  Fall from high place††  Fall down‡  Fall at same level  Assault  Others§ | 656/3545 (19%)  425/3545 (12%)  182/3545 (5.1%)  408/3545 (12%)  636/3545 (18%)  196/3545 (5.5%)  159/3545 (4.5%)  112/3545 (3.2%)  771/3545 (22%) | 232/1372 (17%)  144/1372 (11%)  44/1372 (3.2%)  163/1372 (12%)  231/1372 (17%)  65/1372 (4.7%)  46/1372 (3.4%)  40/1372 (2.9%)  407/1372 (30%) | <0.001† |
| Transport type  Ambulance  Ambulance with physician  Helicopter with physician  Other | 2933/3508 (84%)  139/3508 (4.0%)  405/3508 (12%)  31/3508 (0.9%) | 1032/1356 (76%)  137/1356 (10%)  177/1356 (13%)  10/1356 (0.7%) | <0.001† |
| Vital signs at prehospital  sBP (mmHg)  HR (bpm)  RR (bpm) | 92 (80-115)  96 (78-117)  24 (20-30) | 92 (78-112)  96 (80-116)  24 (20-30) | 0.484\*  0.381\*  0.337\* |
| Vital signs at emergency department  GCS value  sBP (mmHg)  HR (bpm)  RR (bpm) | 14 (10-15)  73 (61-81)  100 (80-120)  24 (20-30) | 14 (10-15)  74 (61-82)  100 (80-120)  24 (20-30) | 0.084\*  0.890\*  0.542\*  0.901\* |
| RTS | 6.4 (5.4-6.8) | 6.2 (5.2-6.8) | 0.311\* |
| AIS  Head (n=1081)  Face (n=767)  Neck (n=333)  Thorax (n=2574)  Abdomen and Pelvis (n=2292)  Cervical Spine (n=1201)  Upper extremity (n=1578)  Lower extremity (n=2937)  Others (n=237) | 3 (2-3)  1 (1-2)  3 (1-3)  4 (3-4)  3 (3-4)  2 (2-3)  2 (2-3)  3 (3-4)  1 (1-1) | 3 (2-3)  2 (1-2)  2 (1-3)  4 (3-4)  3 (3-4)  2 (2-3)  2 (2-3)  3 (3-4)  1 (1-1) | 0.141\*  0.047\*  0.619\*  0.511\*  0.817\*  0.772\*  0.093\*  0.556\*  0.095\* |
| ISS | 22 (13-34) | 25 (14-34) | 0.069\* |
| TRISS (Probability of survival) (%) | 83 (61-94) | 82 (59-94) | 0.388\* |
| Premorbid medical conditions  Stroke  Dementia  Coronary heart disease  Congestive heart failure  Chronic obstructive lung disease  Chronic hepatitis  Liver cirrhosis  Peptic ulcer  Chronic renal failure  Diabetes  Malignancy  Hematologic disorders  Use of anticoagulant or antiplatelet drugs  Use of corticosteroids or immunosuppressant drugs | 116/3551 (3.3%)  114/3551 (3.2%)  107/3551 (3.0%)  55/3551 (1.5%)  29/3551 (0.8%)  73/3551 (2.1%)  70/3551 (2.0%)  57/3551 (1.6%)  34/3551 (1.0%)  296/3551 (8.3%)  65/3551 (1.8%)  8/3551 (0.2%)  54/3551 (1.5%)  24/3551 (0.7%) | 29/1386 (2.1%)  27/1386 (1.9%)  25/1386 (1.8%)  10/1386 (0.7%)  12/1386 (0.9%)  20/1386 (1.4%)  12/1386 (0.9%)  14/1386 (1.0%)  11/1386 (0.8%)  75/1386 (5.4%)  7/1386 (0.5%)  2/1386 (0.1%)  13/1386 (0.9%)  7/1386 (0.5%) | 0.028†  0.017†  0.018†  0.022†  0.864†  0.155†  0.006†  0.115†  0.586†  <0.001†  <0.001†  0.570†  0.112†  0.495† |
| Prehospital treatment  Intravenous fluid | 295/3551 (8.3%) | 104/1386 (7.5%) | 0.352† |
| FAST  Positive  Negative  Not conducted | 1168/3394 (34%)  1776/3394 (52%)  450/3394 (13%) | 449/1298 (35%)  695/1298 (54%)  154/1298 (12%) | 0.429† |
| Blood Transfusion  The amount of blood transfusion (U)  Massive Transfusion | 10 (6-20)  1055/3551 (30%) | 12 (6-22)  69/204 (34%) | 0.081\*  0.212† |
| Operation at initial evaluation  Thoracotomy  Laparotomy | 237/3551 (6.7%)  839/3551 (24%) | 101/1386 (7.3%)  356/1386 (26%) | 0.443†  0.129† |
| Angiography  Chest  Abdomen  Pelvis | 159/3551 (4.5%)  691/3551 (20%)  715/3551 (20%) | 93/1386 (6.7%)  288/1386 (21%)  311/1386 (22%) | 0.001†  0.296†  0.073† |
| TAE | 784/3551 (22%) | 319/1386 (23%) | 0.477 |
| Vasopressor | 459/3551 (13%) | 162/1386 (12%) | 0.129† |
| Mortality | 677/3551 (19%) | 231/1085 (21%) | 0.106† |

IQR, interquartile range; sBP, systolic blood pressure; HR, heart rate; RR, respiratory rate; GCS. Glasgow coma scale; RTS, revised trauma score; AIS, abbreviated injury scale; ISS, injury severity score; TRISS, trauma and injury severity score; FAST, focused assessment with sonography for trauma; TAE, transcatheter arterial embolization.

\*Man -Whitney U test, †Chi-Square test, ††Free falls from high place like a building, ‡Falls from a stair or slope and so on, §Train, machine, falling object, explosion, compression and others.