

Online appendix 5. Injury mechanism/cause distribution in the Olympic sports. Values are number of injuries.

| Sport | Athletes | Injury mechanism/cause | | | | | | | | | | | | | Grand Total | |
|-----------------------------|-------------|-----------------------------|----------------------------|------------------------------|-------------------|--------------------------|--------------------|-------------------------------------|-------------------------|------------------------|-------------------------------|--------------------|--------------------|----------|-------------|------------|
| | | Contact with another object | Contact with moving object | Contact with stagnant object | Equipment failure | Field-of-play conditions | Non-contact trauma | Other cause not otherwise specified | Overuse (gradual onset) | Overuse (sudden onset) | Recurrence of previous injury | Violation of rules | Weather conditions | n/a | | |
| Alpine skiing | 322 | 9 | 2 | 21 | | 1 | 17 | 1 | 3 | 3 | 1 | | | | | 58 |
| Biathlon | 219 | | | 1 | | | 3 | | | 1 | | | | | | 5 |
| Bobsleigh | 163 | 3 | 1 | 7 | | | 5 | | 6 | 6 | 1 | | | | | 29 |
| Cross-country skiing | 311 | 1 | 1 | 3 | 1 | | 2 | 3 | 1 | 5 | | | | | | 17 |
| Curling | 112 | 1 | | | | | | | 7 | 1 | | | | | | 9 |
| Figure skating | 153 | 2 | | 3 | 1 | | 2 | | 3 | 2 | | | | | | 13 |
| Freestyle skiing aerials | 50 | 3 | | 4 | | | 2 | 1 | | | | | | | | 10 |
| Freestyle skiing halfpipe | 51 | 1 | 1 | 10 | | | 1 | | | | 1 | | | | | 14 |
| Freestyle skiing moguls | 60 | | | 2 | | | | | | | 1 | | | | | 3 |
| Freestyle skiing ski cross | 57 | | 1 | 8 | | | 3 | | | 2 | | | | | | 14 |
| Freestyle skiing slopestyle | 54 | | 1 | 6 | | 1 | | | | | 1 | | | | | 9 |
| Ice hockey | 495 | 21 | 29 | 7 | | 1 | 12 | 2 | 2 | 5 | 1 | 1 | | 1 | | 82 |
| Luge | 110 | 1 | | 5 | 1 | | 3 | 1 | 1 | | | | | | | 12 |
| Nordic combined | 55 | 1 | | | | | | | | | | | | | | 1 |
| Short track skating | 113 | 1 | 4 | 6 | | | 2 | 1 | 2 | 1 | | | | | | 17 |
| Skeleton | 50 | | 1 | 2 | | | | | | 1 | | | | | | 4 |
| Ski jumping | 101 | | | 1 | | | 4 | | | 1 | 1 | | | | | 7 |
| Snowboard big air | 69 | 1 | | 4 | | 1 | 2 | | | | | | | | | 8 |
| Snowboard cross | 70 | 1 | | 7 | | 3 | 6 | | | 1 | | | | | | 18 |
| Snowboard halfpipe | 54 | | | 8 | | | | | | | | | | | | 8 |
| Snowboard slalom | 62 | 1 | | | | | 1 | | 1 | | | | | | | 3 |
| Snowboard slopestyle | 66 | 1 | | 9 | | | 2 | | | | | | 2 | | | 14 |
| Speed skating | 184 | 2 | 1 | 2 | | 1 | 2 | 3 | 5 | 2 | 2 | | 1 | | | 21 |
| Grand Total | 2981 | 50 | 42 | 116 | 3 | 8 | 69 | 12 | 31 | 31 | 9 | 1 | 3 | 1 | | 376 |