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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplemental Digital Content 1: Projection of decrease in cases due to AV impact on MVCs | | | | | | | | |
|  | | Acetabulum | Pelvis | Hip | Femur | Tibia | Bi/  TriMal | Calc |
| Current Annual  Case Average | | 70 | 74 | 112 | 104 | 72 | 102 | 26 |
| Proportion other mech | | 47% (33) | 59%(43) | 91%(102) | 66%(69) | 64%(46) | 79%(81) | 61%(16) |
| Proportion MVC | | 53% (37) | 41%(31) | 9%(10) | 34%(35) | 37%(26) | 21%(21) | 39%(10) |
| MVC unaffected (6%) | | 3% (2) | 2%(2) | 1%(1) | 2%(2) | 2%(2) | 1%(1) | 2%(1) |
| MVC affected (94%) | | 50%(35) | 39%(29) | 9%(10) | 32%(33) | 34%(25) | 19%(20) | 37%(10) |
|  | | | | | | | | |
| Future case level projections | | | | | | | | |
| Year | AV use | Acetabulum | Pelvis | Hip | Femur | Tibia | Malleolar | Calc |
| 2025 | 0% | 100%(70) | 100%(74) | 100%(112) | 100%(104) | 100%(72) | 100%(102) | 100%(26) |
| 2030 | 11% | 95%(66) | 96%(71) | 99%(111) | 97%(100) | 96%(69) | 98%(100) | 96%(25) |
| 2035 | 22% | 89%(62) | 91%(68) | 98%(110) | 93%(97) | 92%(67) | 96%(98) | 92%(24) |
| 2040 | 33% | 84%(58) | 87%(64) | 97%(109) | 90%(93) | 89%(64) | 94%(95) | 88%(23) |
| 2050 | 56% | 72%(50) | 78%(58) | 95%(107) | 82%(85) | 81%(58) | 89%(91) | 79%(21) |
| 2060 | 78% | 61%(43) | 70%(52) | 93%(105) | 75%(78) | 73%(53) | 85%(87) | 71%(19) |
| 2070 | 100% | 50%(35) | 61%(45) | 91%(102) | 68%(71) | 66%(47) | 81%(82) | 63%(16) |