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| **Table 5** **Data extracted from the literature included in the review** |
| **variables** | **OR** | **ORLCi** | **ORUCI** |
| **Diabetes** |  |  |  |
| Xu et al., 2019 | 7.352 | 4.35 | 9.01 |
| Ding et al., 2020 | 1.631 | 1.165 | 2.284 |
| Cao et al., 2021 | 0.358 | 0.11 | 1.22 |
| Wang et al., 2021 | 3.751 | 1.593 | 7.105 |
| Huang et al., 2022 | 2.781 | 2.109 | 3.527 |
| Yang et al., 2023 | 3.467 | 1.138 | 10.567 |
| **High blood pressure** |  |
| Xu et al., 2019 | 1.143  | 1.050  | 1.440  |
| Wang et al., 2021 | 3.751 | 1.593 | 7.105 |
| Yang et al., 2023 | 3.705  | 1.285 | 10.680  |
| **Dialysis duration** |  |  |
| Yue et al.,2019 | 0.099 | 0.018 | 0.539 |
| Xu et al., 2019 | 5.359  | 3.140  | 8.590  |
| Wang et al., 2021 | 5.671 | 2.376 | 5.413 |
| Wong et al.,2022 | 0.83 | 0.78 | 0.87 |
| Yang et al.,2023 | 17.642  | 5.67 | 54.892 |
| **BMI** |  |  |  |
| Xu et al., 2019 | 9.278  | 6.940  | 12.330  |
| Wang et al., 2021 | 7.297 | 3.324 | 8.715 |
| Yang et al., 2023 | 3.637  | 1.214 | 10.897 |
| **Insecure catheter placement** |  |
| Lin et al., 2020 | 1.770  | 1.140  | 2.750  |
| Lin et al., 2020 | 3.074 | 1.046 | 9.035 |
| Yang et al., 2021 | 1.793 | 1.06 | 3.032 |
| Yang et al., 2023 | 10.158  | 2.954 | 34.932 |
| **Mechanical strain** |  |
| Lin et al., 2020 | 4.920  | 2.420  | 10.000  |
| Yang et al., 2023 | 7.389  | 1.225 | 44.587 |
| **Lack of proper care** |  |
| Wang et al., 2021 | 6.198  | 4.289  | 9.158  |
| Yang et al., 2023 | 3.758  | 1.303 | 10.845 |
| **Irregular caregivers** |  |
| Lin et al., 2020 | 2.423  | 1.004  | 5.845  |
| Lu et al., 2022 | 2.989  | 1.089 | 8.206 |
| **History of catheter pulling** |  |
| Lin et al., 2020 | 1.780  | 1.020  | 3.110  |
| Ding et al., 2020 | 2.697  | 1.937 | 3.755 |
| Liu et al., 2021 | 5.75 | 1.878 | 17.61 |
| **Nursing process adherence** |  |
| Lin et al., 2020 | 2.352  | 1.008  | 5.488  |
| Ding et al., 2020 | 0.794  | 0.677 | 0.931 |
| **Serum albumin＜30g** |  |
| Wong et al.,2022 | 1.090  | 1.020  | 1.160  |
| Huang et al., 2022 | 7.194  | 4.872 | 9.307 |