## Appendix C  Study characteristics

| Authors                  | Year | Closed fractures | Male | Mean age | Follow-up mean (months) | Total radial nerve palsy | Primary radial nerve palsy (recovered) | Secondary radial nerve palsy (recovered) | Intervention(s)         |
|--------------------------|------|------------------|------|----------|------------------------|--------------------------|----------------------------------------|------------------------------------------|------------------------|
| An et al.                | 2012 | 34               | 23   | 37       | 22                     | 0                        | excluded                               | 0                         | MIPO vs. IMN           |
| An et al.                | 2010 | 33               | 21   | 37       | 29                     | 5                        | excluded                               | 5 (5)                     | MIPO vs. Plating       |
| Apivatthakakul et al.    | 2009 | 20               | *    | *        | 14                     | 0                        | excluded                               | 0                         | MIPO                   |
| Arora et al.             | 2011 | 60               | *    | *        | 3                      | 3                        | excluded                               | 3 (*)                     | Plating               |
| Balam et al.             | 2014 | 37               | 33   | 28       | 18                     | 2                        | excluded                               | 2 (2)                     | MIPO                   |
| Belayneh et al.          | 2019 | 98               | 46   | 49       | 7                      | 8                        | 8 (8)                                  | 0                         | Non-operative treatment vs. Plating |
| Brunner et al.           | 2012 | 14               | 7    | 64       | 25                     | 0                        | excluded                               | 0                         | MIPO                   |
| Chao et al.              | 2005 | 92               | 53   | 51       | 71                     | 9                        | 6 (6)                                  | 3 (3)                     | Plating vs. Nailing   |
| Concha et al.            | 2010 | 20               | *    | *        | 12                     | 0                        | 0                                      | 0                         | MIPO                   |
| Dieiwart et al.          | 2017 | 71               | 41   | 38       | 4                      | 15                       | 15 (13)                                | 0                         | Non-operative vs. Plating or IMN |
| Duygun et al.            | 2017 | 24               | 12   | 42       | 24                     | 1                        | 0                                      | 1 (1)                     | IMN                    |
| Ebrahimpour et al.       | 2015 | 41               | 34   | 39       | 12                     | 4                        | 3 (3)                                  | 1 (1)                     | Nailing               |
| Ekholm et al.            | 2008 | 27               | 9    | 51       | 76                     | 6                        | 6 (6)                                  | 0                         | Non-operative, Plating, IMN |
| Fan et al.               | 2015 | 60               | 37   | 39       | 12                     | 3                        | excluded                               | 3 (3)                     | Plating vs. IMN       |
| Galluci et al.           | 2015 | 20               | 12   | 38       | 22                     | 1                        | 0                                      | 1 (1)                     | MIPO                   |
| Habernek et al.          | 1992 | 10               | 7    | *        | 3                      | 0                        | 0                                      | 0                         | IMN                    |
| Han et al.               | 2017 | 96               | 56   | 43       | 31                     | 2                        | excluded                               | 2 (2)                     | IMN vs. IMN with cerclage cables |
| Jawa et al.              | 2006 | 40               | 20   | 45       | 21                     | 9                        | 6 (5)                                  | 4 (2)                     | Non-operative vs. Plating |
| Kharbanda et al.         | 2017 | 18               | 12   | 44       | 26                     | 2                        | 2 (2)                                  | 0                         | Plating               |
| Ko et al.                | 2017 | 50               | 34   | 56       | 19                     | 3                        | Excluded                               | 3 (3)                     | MIPO                   |
| Lau et al.               | 2007 | 17               | 7    | 65       | 14                     | 3                        | excluded                               | 3 (3)                     | MIPO                   |
| Author(s)            | Year | N Plating | N IMN | N MIPO | Excluded | Treatment Comparison |
|---------------------|------|-----------|-------|--------|----------|----------------------|
| Lee et al.          | 2018 | 18        | 10    | 35     | 12       | 4 (4)                |
| Li et al.           | 2011 | 45        | 32    | 38     | 12       | excluded             |
| Liebergall et al.   | 1997 | 19        | *     | *      | 36       | 3 (2)                |
| Lin et al.          | 2003 | 16        | 8     | 40     | 22       | 2 (2)                |
| Livani et al.       | 2004 | 11        | 9     | 41     | 27       | 0                    |
| Malhan et al.       | 2012 | 42        | 28    | 34     | 25       | excluded             |
| Matsunaga et al.    | 2017 | 110       | 73    | 39     | 12       | excluded             |
| Pal et al.          | 2015 | 49        | 26    | 40     | 41       | 6                    |
| Pehlivan et al.     | 2002 | 21        | 17    | 25     | 9        | 0                    |
| Salvador et al.     | 2018 | 60        | 18    | 67     | 11       | excluded             |
| Seo et al.          | 2019 | 60        | 40    | 44     | 12       | 13                   |
| Shen et al.         | 2013 | 43        | 28    | 40     | 26       | excluded             |
| Singh et al.        | 2014 | 212       | 148   | 37     | 12       | 25                   |
| Spagnolo et al.     | 2010 | 16        | 10    | 54     | 7        | 0                    |
| Wang et al.         | 2018 | 46        | 14    | 71     | 17       | 0                    |
| Yang et al.         | 2012 | 19        | 15    | 37     | 17       | 1                    |
| Yin et al.          | 2014 | 56        | 30    | 38     | 16       | 3                    |
| Zhiquan et al.      | 2007 | 13        | 9     | 38     | 13       | excluded             |
| Zogaib et al.       | 2014 | 20        | 15    | 35     | 52       | 0                    |

* Unknown value

MIPO = Minimally invasive plate osteosynthesis
IMN = Intramedullary nailing