Table 1: Characteristics of the Included Studies

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | **Year** | **Country** | **Study type** | **Stapler type** | **Closure type** | | **SC** | | **MC** | **Age** | **Sex (M/F)** |  | **Preop TR** | | | |  | **Preop RT** | | |  | | |
|  |  |  |  |  |  | |  | |  |  |  |  | SC | | MC | |  | SC | | MC |  | | |
| Gonçalves | 2009 | Brazil | Prospectivea | 2 row 75 mm linear | closed | | 30 | | 30 | 59.9 | 54/6 |  | 10 | | 5 | |  | 14 | | 4 |  | | |
| Calli | 2011 | Turkey | Prospectivea | 2 row 60 mm linear | closed | | 61 | | 121 | 61.6 | 176/6 |  | NS | | NS | |  | 0 | | 0 |  | | |
| Sannikorn | 2013 | Thailand | Retrospective | 2 row 60 mm linear | closed | | 26 | | 26 | 63.0 | 49/3 |  | NS | | NS | |  | NS | | NS |  | | |
| Dedivitis | 2014 | Brazil | Prospective | 2 row 75 mm linear | closed | | 20 | | 67 | 62.0 | 80/7 |  | 13 | | 17 | |  | 15 | | 15 |  | | |
| Ismi | 2017 | Turkey | Prospective | 2 row 80 mm linear | semiclosed | | 30 | | 40 | 60.1 | 67/3 |  | 2 | | 4 | |  | 6 | | 7 |  | | |
| Galletti | 2018 | Italy | RCT | 2 row 90 mm linear | closed | | 16 | | 27 | 42.0 – 92.0d | 36/7 |  | NS | | NS | |  | NS | | NS |  | | |
| Öztürk | 2019 | Turkey | RCT | 2 row 60 mm linear | closed | | 21 | | 20 | 60.6 | 38/3 |  | NS | | NS | |  | 0 | | 0 |  | | |
|  |  |  |  |  |  |  | |  |  |  |  | *P*=0.04b | | | | | *P*=0.00c | | | | |  |
|  |  |  |  |  |  |  | |  |  |  |  |  | |  | |  |  | |  | | |  |

SC, stapler closure; MC, manual closure; M, male; F, female; Preop, preoperative; TR, tracheostomy; RT, radiotherapy; RCT, randomized controlled trial; NS, not specified.

a Data from the SC group were prospectively collected, and data from the MC group were retrospectively reviewed from medical records.

b *P*-value from chi-squared test of pooled prevalence of preoperative tracheostomy between SC and MC group.

c *P*-value from chi-squared test of pooled prevalence of preoperative radiotherapy between SC and MC group.

d Age is presented as range.