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| **Table S1. The Newcastle-Ottawa Scale (NOS) for assessing the quality of nonrandomized studies.** |
|  | Selection | Comparability | Assessment of Outcome |
| Author, year | Representativeness of treated arm | Selection of the comparative treatment arm | Ascertainment of the treatment regimen | Demonstration that outcome of interest was not present at start of study | Comparability between patients in different treatment arms-main/secondary factor | Assessment of outcome | Was medianfollow-up ≥5 years | Lost to followup acceptable(less than 10% and reported) |
| Pospischill40, 2012 | \* | \* | \* | \* | \* \* | \* | \* | \* |
| Bolland44, 2010 | \* | \* | \* | -- | \* | \* | \* | -- |
| Firth30, 2010 | \* | \* | \* | \* | \* | \* | \* | \* |
| Jain29, 2007 | \* | \* | \* | \* | -- | \* | -- | -- |
| Clarke28, 2005 | \* | \* | \* | \* | \* | \* | -- | \* |
| Segal27, 1999 | \* | \* | \* | -- | \* | \* | \* | \* |
| Luhmann26, 1998 | \* | \* | \* | \* | \* | \* | \* | \* |
| Camp24,1994 | \* | \* | \* | \* | -- | \* | -- | \* |
| Mardam23,1982 | \* | \* | \* | \* | -- | \* | \* | -- |