**Supplement table 1** The Newcastle-Ottawa quality assessment scale (NOS) was selected to assess the quality of the included studies by using the “star system”. Full score = 9 and the study which was graded greater than or equal to 6 stars could be considered as high-quality study (13).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cohort Star Template** | | | | | | | | | | | | |
| **Study** | **Manufacture** | **samples** | **Selection** | | | | **Comparability** | | **Outcome** | | | **Quality assessment** |
| **①** | **②** | **③** | **④** | **⑤** | | **⑥** | **⑦** | **⑧** |
| Li J, 2008 | DPC | 1118 | IMG_265 | IMG_267 | IMG_268 | IMG_269 | IMG_270 | IMG_271 | IMG_272 | IMG_273 | IMG_274 | 9 |
| Liu JH, 2016 | Roche/Beckman/Abbott | 947 | IMG_275 | IMG_277 | IMG_278 | IMG_279 | IMG_280 | IMG_281 | IMG_282 | IMG_283 | IMG_284 | 9 |
| Wang QW, 2011 | Roche | 1756 | IMG_285 | IMG_287 | IMG_288 | IMG_289 | IMG_290 | IMG_291 | IMG_292 | IMG_293 | IMG_294 | 9 |
| Duan YF, 2015 | Bayer ADVIA Centaur | 3978 | IMG_295 |  | IMG_299 | IMG_301 |  |  | IMG_303 | IMG_305 | IMG_307 | 6 |
| Fan JX, 2013 | Roche/Abbott | 693 | IMG_308 |  | IMG_312 | IMG_314 |  |  | IMG_316 | IMG_318 | IMG_320 | 6 |
| Yan YQ, 2011 | Bayer ADVIA Centaur | 613 | IMG_321 | IMG_322 | IMG_323 | IMG_324 | IMG_325 | IMG_326 | IMG_327 | IMG_328 |  | 8 |
| Chen QQ, 2016 | Beckman | 281 | IMG_329 | IMG_330 | IMG_331 | IMG_332 | IMG_333 | IMG_334 | IMG_335 | IMG_336 | IMG_337 | 9 |
| Yu L, 2014 | Beckman | 877 | IMG_338 | IMG_339 | IMG_340 | IMG_341 | IMG_342 | IMG_343 | IMG_344 | IMG_345 |  | 8 |
| Chen L, 2016 | Beckman | 526 | IMG_346 | IMG_347 | IMG_348 | IMG_349 | IMG_350 | IMG_351 | IMG_352 | IMG_353 | IMG_354 | 9 |
| Li CY, 2014 | Roche | 640 | IMG_355 | IMG_356 | IMG_357 | IMG_358 | IMG_359 | IMG_360 | IMG_361 | IMG_362 | IMG_363 | 9 |
| Fan JX, 2015 | Roche/Abbott/Bayer/DPC | 200 | IMG_364 | IMG_365 | IMG_366 | IMG_367 | IMG_368 | IMG_369 | IMG_370 | IMG_371 | IMG_372 | 9 |