**Appendix Table D2. Reporting characteristics and methodological quality of studies of analytic validity**

| **Author****Year****Country****PMID** | **Was the execution of the assay described in sufficient detail to permit replication?** | **Were both positive and negative control samples tested?** | **Were negative control materials from the same** **type of tissue, and collected, stored, and processed in the same** **way that sample materials used clinically for testing will be?** | **Were the tests performed with positive or negative control samples blinded to the testers?** | **Were the testing results interpreted with positive or negative control samples being blinded to the interpreters?** | **Were criteria for determining a testing result as positive, negative, indeterminate, or uninterpretable set *a priori*?**  | **Was the limit of detection of the test reported?** | **Was the assay linearity range reported?** | **Was the reproducibility of the test when performed multiple times** **on a single specimen established?** | **Was the reproducibility of the test adequately established(across operators/ instruments/reagent lots/ different** **days of the week/ different laboratories)?** | **Were the study data from a multisite collaborative, proficiency** **testing, or interlaboratory exchange programs?** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Shuldiner2009{Shuldiner, 2009 116 /id}USA19706858 | YES | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Sibbing2009{Sibbing, 2009 133 /id}Germany19193675 | YES | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Sibbing2011{Sibbing, 2011 2 /id}Germany21527445 | YES | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Trenk2011 {Trenk, 2011 226 /id}Germany21685174 | YES | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Sibbing2010{Sibbing, 2010 95 /id}Germany20083681 | YES | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Siller-Matula2012{Siller-Matula, 2012 18177 /id}Austria22260716PAGASUS-PCI | YES | NR | NA | NR[the blinding procedures described were not applicable to control samples] | NR[the blinding procedures described were not applicable to control samples] | NR | NO | NO | NO(agreement between different genotyping methods) | YES(assessment of different genotyping methods) | NO |
| Namazi2012{Namazi, 2012 18206 /id}Iran22265638 | YES | NR | NA | NR | NR | NR | NO | NO | NO(agreement between different genotyping methods) | YES(assessment of different genotyping methods) | NO |
| Delaney2012{Delaney, 2012 18204 /id}USA22190063 | YES | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Bhatt2012{Bhatt, 2012 18205 /id}Multinational22450429CHARISMA | NO | NR | NA | NR | NR | NR | NO | NO | YES(concordance on repeat genotyping) | NO | NO |
| Roberts2012{Roberts, 2012 18260 /id}Canada22464343RAPID GENE | YES | NR(for the assessment of patient samples) | NA | NR | NR | NR | NO | NO | YES(genotyping was repeated at one week) | YES(assessment of different genotyping methods) | NO |
| Mega2011{Mega, 2011 18190 /id}USA22088980ELEVATE-TIMI 56 | NO(pyrosequencing methods not described) | NR | NA | NR | NR | NR | NO | NO | NO | YES(assessment of different genotyping methods) | NO |

NA = not applicable; NR = not reported; PMID = PubMed identification number.