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# PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 86454

**Title:** Confusing finding of quantitative fluorescent polymerase chain reaction analysis in invasive prenatal genetic diagnosis: A case report

**Provenance and peer review**: Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 07722267
**Position:** Peer Reviewer
**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** India

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-06-19

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-08-07 06:28

**Reviewer performed review:** 2023-08-10 11:54

**Review time:** 3 Days and 5 Hours

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|---|---|
| **Scientific quality** | [ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good<br>[ ] Grade D: Fair [ ] Grade E: Do not publish |
| **Novelty of this manuscript** | [ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair<br>[ ] Grade D: No novelty |
| **Creativity or innovation of this manuscript** | [ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair<br>[ ] Grade D: No creativity or innovation |

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|---|---|
| **Scientific significance of the conclusion in this manuscript** | [ ] Grade A: Excellent [ Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance |
| **Language quality** | [ ] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ Y] Grade C: A great deal of language polishing [ ] Grade D: Rejection |
| **Conclusion** | [ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ Y] Major revision [ ] Rejection |
| **Re-review** | [ Y] Yes [ ] No |
| **Peer-reviewer statements** | Peer-Review: [ Y] Anonymous [ ] Onymous |
| | Conflicts-of-Interest: [ ] Yes [ Y] No |

## SPECIFIC COMMENTS TO AUTHORS

This article discusses a case report and claims that the combination of QF-PCR, karyotyping and CNV-Seq could achieve a higher detection rate and accuracy for the prenatal diagnosis of chromosomal disorders. However it has certain short falls. 1) In literature there are multiple articles on utility of combination of QF-PCR, karyotyping and CNV-Seq for prenatal diagnosis. Then how is this case report is different from those reports? 2) In the discussion section, the author has elaborately wrote about the different methods for prenatal diagnosis and its advantages and disadvantages. I would suggest that the authors re-write the discussion in a much short and crisp manner. 3) The authors start the introduction with QF-PCR but the discussion with 45XYY syndrome. I would suggest authors to start their discussion with utility of different diagnostic tools for pre-natal diagnosis and then later discuss briefly about the 45XYY. Overall, it is any interesting case, but the authors have to focus on the novelty of the case and discuss it appropriately.