

MDCG 2021-7

Notice to manufacturers and authorised representatives on the impact of genetic variants on SARS-COV-2 *in vitro* diagnostic medical devices

May 2021

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Notice to manufacturers and authorised representatives on the impact of genetic variants on SARS-CoV-2 *in vitro* diagnostic medical devices

Scope

This notice is addressed to manufacturers of *in vitro* diagnostic medical devices (IVDs) with the intended purpose to detect and/or quantify markers of SARS-CoV-2 infection, as well as their authorised representatives. The notice underlines the manufacturers' responsibilities to continually assess the impact of newly identified genetic variants of SARS-CoV-2 on the capability of those IVDs to meet their performance, risk and safety claims.

Legal Basis

Article 3 of Directive 98/79/EC on *in vitro* diagnostics medical devices (the IVDD) outlines that devices must meet the essential requirements set out in Annex I which apply to them, taking account of the intended purpose of the devices concerned. Refer to IVDD Annex I and Annex III (5) for further details on the essential requirements and post-market surveillance obligations.

SARS-CoV-2 Genetic Variants

The emergence of genetic variants of SARS-CoV-2 poses additional risks for IVDs which are intended to detect and/or quantify markers of SARS-CoV-2 infection, most notably the devices for detection and/or quantification of the SARS-CoV-2 nucleic acid or antigens, but also of anti-SARS-CoV-2 antibodies. The performance of these IVDs may not be the same for different genetic variants. Depending on the design of the device and nature of the genetic variant this may result in failure to achieve the performance claims specified in the instructions for use. This could compromise the safety of patients, healthcare professionals or other individuals where a SARS-CoV-2 infection goes undetected.

Manufacturers must therefore continually assess the impact that new genetic variants may have, to ensure that the performance of their devices continues to meet the essential requirements set out in the IVDD. The risks associated with the use of the device must also be reviewed on an ongoing basis to ensure that they are acceptable when weighed against the benefits to the patient. This approach should be documented and made available by the manufacturer upon request. Sources of information on genetic variants for SARS-CoV-2 may include scientific literature, national virus reference laboratories and organisations such as the ECDC¹ and the WHO².

¹ <https://www.ecdc.europa.eu/en/publications-data?s=SARS-COV-2&>

² <https://www.who.int/emergencies/diseases/novel-coronavirus-2019>

It is the manufacturer’s responsibility to report any incident involving their devices to the relevant competent authority. Changes in the performance of the device which could result in direct or indirect harm³ should be communicated to end users through a Field Safety Corrective Action in accordance with MEDDEV 2.12-1. Where performance limitations are identified these should be clearly stated in the device’s instructions for use and technical documentation.

³ MEDDEV 2.12-1: 4.11 If use, not directly lead to indirect harm rather than of information or result IVF/ART devices) or org;



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