



astraia software gmbh · Adalperostraße 80 · D-85737 Ismaning

Customers of astraia software gmbh  
with astraia software version 1.27.0 or higher

astraia software gmbh  
Adalperostraße 80  
85737 Ismaning  
Germany  
Fon +49 89 540 204 700  
Fax +49 89 540 207 799  
www.astraia.com  
Info@astraia.com

10.02.2022

## **Field Safety Notice 2022-02-02 CAPA AST-7150**

page 1 / 3

Dear Sir or Madam,

We would like to inform you as the user/reseller of astraia about a possible bug in transferring measurement data, used for the calculation of the aneuploid risks, from an ultrasound machine into astraia.

This safety notice has been created on the base of CAPA Case „2022-02-02 CAPA AST-7150“ (corrective actions preventive action).

You will **not** be affected if you

- don't transfer measurement data from an ultrasound machine
- transfer exactly one value as NT measurement
- transfer max NT directly from the ultrasound device
- transfer the single NT value you want to use manually preselected on the ultrasound device

If none of the above applies to you then we will inform you here about

- the exact conditions that might cause the bug
- the exact measures you should take
- the steps astraia is taking to fix the bug

If you require further information or assistance in connection with this incident, please contact your local partner or the astraia support. This safety notification will also be reported to the authority responsible for your county.

We apologise for any inconvenience caused.

Dr. Uwe Hannemann  
General Manager  
astraia software gmbh

---

astraia software gmbh

General Manager: Dr. Uwe Hannemann

VAT-ID DE 209125093

Amtsgericht München

HRB 95 130

Tax No 143/115/90201

Deutsche Bank

IBAN: DE91694700390032728800

BIC/SWIFT-Code: DEUTDE6F694

---

## Field Safety Notice

### Astrai Software Version 1.27.0 or higher

#### Erroneous selection of DICOM SR values for import into Astrai software

<b>I. Affected products</b>	<p>All software versions of astrai software 1.27.0 or higher. All affected versions are listed in detail below:</p> <p style="text-align: center;">1.27.0; 1.27.1; 1.27.2; 1.27.3; 1.28.1;</p> <p>Only if a series (&gt;1) of measured values of one type is transferred to astrai software within the workflow of recording/transferring values for an ultrasound does the anomaly occur. This is the only case in which the error occurs and the version would be affected. If only single values of a particular type are transferred (e.g. N.T. = nuchal translucency ) the version is not affected.</p>
<b>II. Failure description</b>	<p>If a set of values of a type (e.g. N.T.) is transferred to astrai software for risk calculation (Trisomy 21, etc.) NOT a determined measurement value of the set according to configured filter (e.g. average value) is used, but the last value evaluated by the sonographer of the set is used.</p> <p><b>Example:</b> Three measurement results for N.T. are transferred to astrai software and the sonographer determined to use the average value but the last value which maybe is not the average is used for Risk calculation (FTS, T21, etc.).</p> <p>Value A: 2.1mm Value B: 2.2 mm Value C: 2.3 mm</p> <p>Average Value: 2.2 mm      selected filter and determined value by sonographer Last Value: 2.3 mm      actually transferred value</p> <p><b>Steps to reproduce:</b></p> <ol style="list-style-type: none"> <li>1. Create a patient with exam.</li> <li>2. Configure measurement server from astrai for operated application version.</li> <li>3. Do an ultrasound and fetch the created patient record.</li> <li>4. Enter values for e.g. N.T. (at least 2 values).</li> <li>5. Transfer to Astrai software application.</li> <li>6. Click the button "Transfer".</li> <li>7. Compare the values (transferred/documented and determined).</li> </ol>

<p><b>III. Potential Risk</b></p>	<p><b>Risk Hazard</b> Therapy or diagnosis decisions supported by astraira software are based on other measurement values than expected by the medical staff. If a series of values (&gt;1) is transmitted and a filter is active (e.g. average) then values other than those determined by the sonographers/medical staff are transmitted to the astraira software. These values are eventually used for the risk calculation (see also I).</p> <p><b>Risk Identification and Impact:</b> According to the anomaly only a lower risk for e.g. Trisomy 21 would be calculated. Other therapy treatments wouldn't be affected by the nature of the risk (see risk hazard and II.). Astraira software First Trimester Screen Module calculates the risks of Trisomy 21 [IVD], 18 and 13 according to an algorithm provided by the FMF UK (Fetal Medical Foundation). This probability alone does not give a valid diagnosis (see also intended use of medical device).</p> <p>Only sonographers who have been certified by the Fetal Medicine Foundation, London (FMF) are allowed to perform a risk calculation with astraira software First Trimester Screen Module. As a result of this fact, the probability that valid values are transmitted to astraira software is very high.</p> <p><b>Risk Probability</b> If a set of values is transferred to astraira software for documentation and/or risk calculation the probability depends on the amount of values and the filters configured by the medical facility.</p>
<p><b>IV. Identification of affected products</b></p>	<p>It has been tested in different versions and was found only for the product versions listed under item I. of this document. An evaluation of the CRM database with all distributed and affected product versions has been made and all affected customers according to this evaluation have been notified.</p>
<p><b>V. Necessary measures of the affected customers</b></p>	<ul style="list-style-type: none"> <li>• Workaround 1: Check the measurement values before and after the transmission to Astraira software. Change the transferred value in Astraira software to the correct and determined value you want to use for the risk calculation according to the measurement.</li> <li>• Workaround 2: Manually put in the values for the risk calculation.</li> <li>• Workaround 3: Transfer only one value of a measurement type (e.g. N.T.).</li> </ul> <p>One of these presented Workarounds must be followed to guarantee a correct calculation based on the values the medical staff determined.</p>
<p><b>VI. Planned measures of astraira</b></p>	<ul style="list-style-type: none"> <li>• A new release of astraira software including a patch for the correction of the application misbehaviour described above (see II.) is planned to be released in March 2022.</li> <li>• Support the customers of affected versions.</li> </ul> <p>The patch will be an update for the affected installed version. No new installation or configuration is needed. All changes will be provided by the patch/update.</p>
<p><b>VII. Further information and support</b></p>	<p>If you require further support and information in this context, please contact your local partner or support of astraira.</p>