

14/06/2024

**RE: Cegedim Healthcare Solutions – Response to Regulation 28 Report to Prevent Future Deaths – Reid**

The following comprises Cegedim Healthcare Solutions' response to the report referenced above that was issued by the Coroner for the area of West Yorkshire (Eastern), dated 18 April 2024. The purpose of this response is to provide details of actions taken or that may be taken by Cegedim Healthcare Solutions to prevent other deaths occurring in similar circumstances in the future.

Data entered into Vision clinical systems is subject to validation at two levels, namely, "hard" validation where certain data items may not be entered (e.g. text in a numeric field) and "soft" validation where users are alerted to possible errors in data entry but may still continue and file the data (e.g. range checking of numeric data).

Vision clinical systems challenge / alert users at such levels where clinical data values are recorded that are considered out of normal / usual range.

For example, in the Vision 3 GP clinical system:

Weight (kg) has a "hard" upper limit of 1000. And a "soft" range limit of 0.5 to 180kg.

The same data validation as above is applied when recording weight values within the Vision Anywhere clinical system.

When using the BMI calculator tool in Vision+, only "hard" data validation is performed on a weight value entered, with a "hard" upper limit of 200kg implemented.

However, there are rules in place in Vision clinical systems for a patient's BMI to calculate.

**Vision 3**

For a patient's BMI to calculate, their height must have been recorded after the date of their 15<sup>th</sup> birthday and both height and weight values recorded for the patient must have a date which is on or after their 16<sup>th</sup> birthday.

Therefore, for the patient who died, although their weight value of 145kg which is considered unusually high for a child aged 11y, the patient's BMI would not calculate or be available in their record as the patient's height was not recorded after the date of their 15<sup>th</sup> birthday and the height and weight values recorded for the patient don't have a date which is on or after their 16<sup>th</sup> birthday.

***In this scenario this leaves the patient without a BMI recording in their patient record, forcing the GP to update their records accordingly for this figure to be calculated.*** Without the recording of a BMI in the patient record, the patient would then not appear in any adhoc reports exported from the system that required the need for BMI as a criteria.

It should be noted that for the purposes of Covid, the call/recall was not done by practices, and was done based on data extracted from the clinical systems into national systems.

It should also be noted that **Childhood BMI charts** are implemented in Vision 3 apps ([https://help.cegedim-healthcare.co.uk/Vision\\_3\\_Apps\\_Help\\_Centre/v1.0/Content/C\\_Apps\\_Available/Childhood\\_Growth\\_Charts\\_Screen.htm?ocpath=Help%20Topics%7CApps%20Available%7CPatient%20Apps%20%7C\\_\\_\\_\\_\\_5](https://help.cegedim-healthcare.co.uk/Vision_3_Apps_Help_Centre/v1.0/Content/C_Apps_Available/Childhood_Growth_Charts_Screen.htm?ocpath=Help%20Topics%7CApps%20Available%7CPatient%20Apps%20%7C_____5))

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## **Vision Anywhere**

The following rules are used to determine whether a patient's BMI is calculated.

1. Is the patient 18y or older?
  - a. YES: Proceed to 2
  - b. NO: Do not calculate BMI
2. Is the patient aged 21y or over?
  - a. YES: Is there a height record on or after the age of 21y?
    - i. YES: Use most recent height record that has been recorded on or after the age of 21y
    - ii. NO: Do not calculate BMI
  - b. NO: Is there a height record in the last 12 months?
    - i. YES: Use this most recent height record
    - ii. NO: Do not calculate BMI

**With regards to the concerned scenario/case, the patient's BMI would not calculate or be available in their record in accordance with the above rules.**

## **Vision+ (internal system tool of calculators)**

For the BMI calculator tool in Vision+, there are no rules in place based on a patient's age for a patient's BMI to calculate. As long as a patient has a weight and height recorded with values within the "hard" upper limits set for each (200kg and 2m, respectively).

Vision+ will present a calculated BMI value for the patient. However, upon saving the BMI measurement in Vision+, it is only the height and weight values that are written back to the patient's record held in Vision 3, but not the BMI value itself.

Vision 3 then may or may not calculate the patient's BMI based on the height and weight values written back, dependent upon the rules in place in Vision 3 based on the patient's age (as referenced above).

Therefore, for the patient who died, although their weight value of 145kg which is considered unusually high for a child aged 11y this could still be calculated using the BMI calculator tool in Vision+ and Vision+ would have presented a calculated BMI for the patient.

However, Vision 3, **would not then calculate** the patient's BMI in accordance with the rules in place in Vision 3 based on the patient's age (as referenced above) and therefore a BMI value would not be recorded in the patient notes as the requirements for value recording would not have been met based on the above explained system rules on data entry based on age.

It should be noted that, **such enhanced functionality** (to additionally take into account patient age when recording weight or height for calculation of BMI, including for patients who are under 16 years of age) **is not currently among the NHS requirements in the Framework agreements and therefore has not been developed in our clinical solutions.**

Although not currently implemented or on the roadmap for future development work in Vision clinical systems, a potential improvement for implementation in future would be the possible development and implementation of functionality to additionally take into account patient age when recording weight or height for calculation of BMI, including for patients who are under 16 years of age.

This is to enable Vision clinical systems to identify / challenge any obviously erroneous or unusually high or low values when recording this clinical data. It is hoped that the availability of such enhanced functionality in Vision clinical systems would provide further mitigation against the risk of the occurrence of further deaths in similar circumstances.

Sincerely,

[Redacted Signature]

[Redacted Name]

Chief Clinical Information Officer

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