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|  | **2013** |
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| **[Modeling Allergies]** |
| Modeling Allergies and Intolerances in the vMR. Harmonization with the Patient Care Allergy model. |

# Purpose

This document proposes an approach to model allergies and intolerances based on current vMR structure and principles.

# Introduction

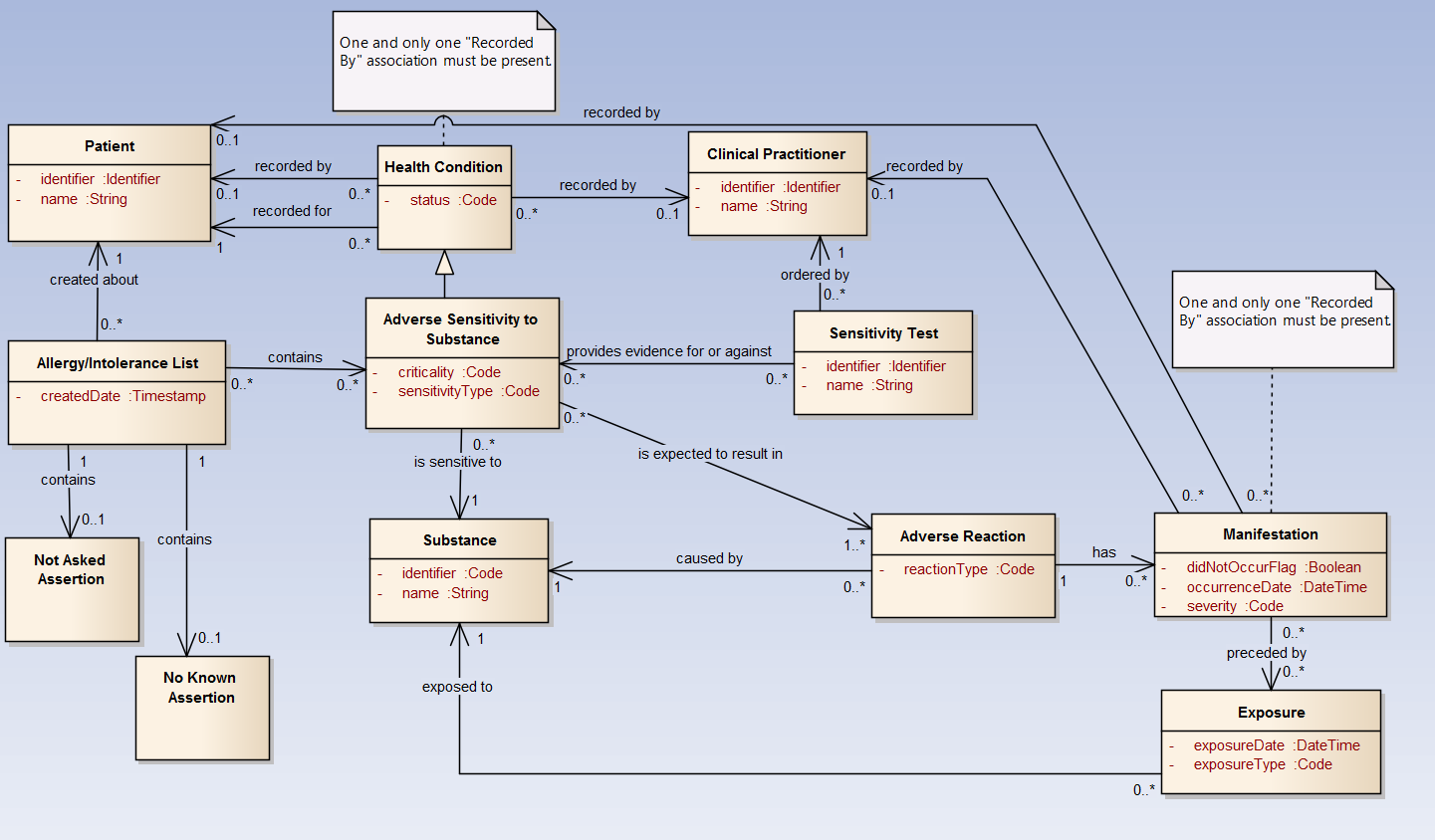
During the September 2013 Working Group a number of comments have been received indicating the need for a concrete allergy & intolerance class separate from the current Problem class. Given the similarity between problems and allergies/intolerances in terms of attribute content, we have decided to model this concept within the Problem inheritance hierarchy rather than as a wholly separate Clinical Statement hierarchy. However, to ensure that Problem and AllergyOrIntolerance are siblings rather than AllergyOrIntolerance being a subclass of Problem due to inferencing concerns, a new layer of AbstractProblem/DeniedAbstractProblem has been introduced. This can be viewed essentially as a compromise between both approaches.

Note that several terminology concerns were raised. In particular, if denied semantics are part of a term, can such a term be used as the problemCode for a DeniedXYZ? Guidance will need to be provided on this front, once it becomes clear which approach should be taken.

Also note that the vMR uses concrete DeniedXYZ classes for a number of reasons which include:

1. providing clearer semantics than the negative indicator. One problem with the negative indicator is that it can toggle a class’ semantics purely on its value.
2. Reducing the likelihood of human error. Forgetting to set the negative indicator flag could lead to adverse consequences at the point of care.
3. Potentially more easily processed by rules engines.

# Allergy Model from Patient Care



# Proposed vMR Allergy/Intolerance/Problem Model

