



## Point-of-Care Learning Data Specifications and Description Document

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### Version History

Version No.	Date	Changed By	Changes Made
0.1	23 Jan 2007	Valerie Smothers	Initial draft
0.2	26 Feb 2007	Valerie Smothers	Developed schema, added element descriptions
0.3	15 Apr 2007	Valerie Smothers	Clinical question or topic required, resource used structure change: now indicates title, collection, collection id, and resource location.
0.31	14 Feb 2008	Valerie Smothers	Added Relevant element to ResourceUsed.

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## Acknowledgements

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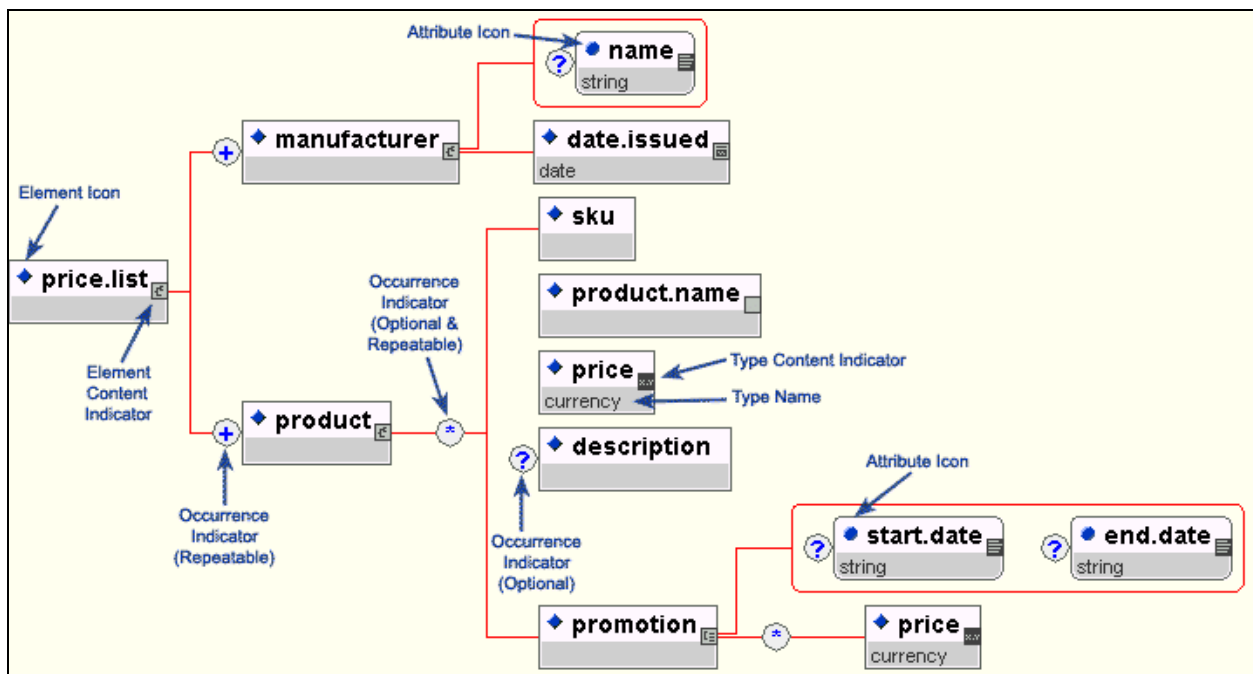
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## Documentation Conventions

This document uses the following conventions.

Documentation Conventions	
Convention	Description
monospaced type	Sample XML tags, code, schema, or portion thereof
<b>BoldText</b>	When used with an XML tag name, indicates that the element contains subelements
<i>Italicized Text</i>	When used in an XML tag description, an attribute of the XML tag.
Tag description	Shading indicated that the tag is further described in a later part of the document

The following graphical standards are used for the XML diagrams in this document.



*Graphical Standards from TIBCO's Turbo XML, Copyright TIBCO Software Inc.*

## Introduction

This document describes Point-of-Care Learning data in detail. It is intended for use by anyone who wants to develop tools or implement electronic systems for delivering or managing point of care learning. The status of the document is indicated at the bottom of the page; draft documents are subject to review and approval through the MedBiquitous standards development process (see [http://www.medbiq.org/working\\_groups/consortium\\_process/MedBiquitousANSIProcess.pdf](http://www.medbiq.org/working_groups/consortium_process/MedBiquitousANSIProcess.pdf)).

The American Academy of Family Physicians (AAFP) defines point of care learning as “practice-based learning that takes place in support of specific patient care.” Clinicians are increasingly developing and using point-of –care learning products such as Up-to-Date, InfoRetriever, and Physicians Information and Education Resource (PIER). Other types of evidence-based clinical literature may be used at point of care as well.

In 2005, the American Medical Association (AMA) Physician’s Recognition Award (PRA) and Credit System and the American Academy of Family Physicians (AAFP) Credit System began to award Continuing Medical Education (CME) credit for Internet Point of Care learning. In order to claim CME credit, the AMA and AAFP require learners to review the clinical question, identify relevant sources, and describe the application of findings to practice. This specification enables the exchange of such data. While credit may be awarded for point-of-care learning activities, this specification is intended for use with a broad scope of point-of-care learning activities regardless of whether or not credit is designated or awarded.

# Point-of-Care Learning Data Grammar

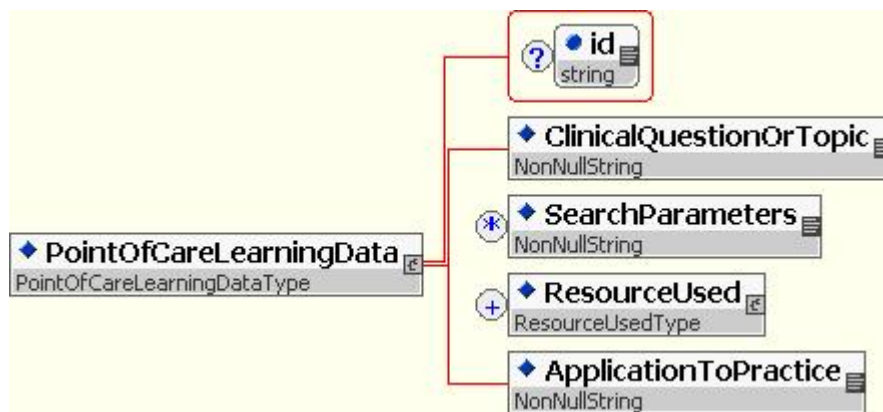
The following sections explain the grammar for the Point-of-Care Learning Data XML schema. Values in bold under Element column indicate that the element has subelements.

All the elements having subelements will be defined in separate sections. All elements without subelements will be defined within the appropriate element sections that use them.

The MedBiquitous Point-of-care Learning schema is imported by the MedBiquitous Activity Report schema, which provides data about the learner, activity, and CE credit received. For more information about the Activity Report, see the MedBiquitous Activity Report Specifications and Descriptions Document at: [http://www.medbiq.org/working\\_groups/activity\\_report/ActivityReportSpecification.pdf](http://www.medbiq.org/working_groups/activity_report/ActivityReportSpecification.pdf)

## 1 *PointOfCareLearningData*

PointOfCareLearningData is the root element. It contains elements that provide data about a point of care learning experience. PointOfCareLearningData must occur once within a PointOfCareLearningData instance document.



PointOfCareLearningData has the following elements.

## PointOfCareLearningData Element Information

Element	Description	Required	Multiplicity	Datatype
PointOfCareLearningData	<p>PointOfCareLearningData is the root element. It contains elements that provide data about the point-of-care learning experience.</p> <p>PointOfCareLearningData has the following attribute:</p> <p><i>id</i> A unique identifier for this set of point of care learning data.</p>	Required	1	Container
ClinicalQuestionOrTopic	<p>ClinicalQuestionOrTopic is the subelement of PointOfCareLearningData that describes the clinical question asked or topic selected by the learner to begin the search for learning resources at the point of care.</p>	Required	0 or 1	Non-null string
SearchParameters	<p>SearchParameters is the subelement of PointOfCareLearningData that describes the search parameters entered by the learner if a collection search was used to fund relevant resources at the point of care.</p>	Optional	0 or more	Non-null string
ResourceUsed	<p>ResourceUsed is the subelement of PointOfCareLearningData that describes the title of a learning resource used as part of this point of care learning experience. If the resource is an article in a collection, use the title of the article. See ResourceUsed section for more information.</p>	Required	1 or more	Container

Element	Description	Required	Multiplicity	Datatype
ApplicationToPractice	ApplicationToPractice is the subelement of PointOfCareLearningData that indicates how the learner describes applying the learning resource to his or her practice. ApplicationToPractice may indicate that the learner was unable to apply the learning to the question at hand.	Required	1	Non-null string

### Example:

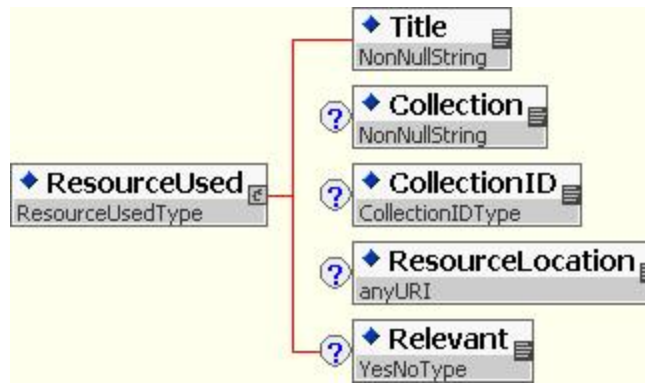
```

<PointOfCareLearningData>
  <ClinicalQuestionOrTopic>
    Is zinc recommended for type 2 diabetic patients?
  </ClinicalQuestionOrTopic>
  <SearchParameters>zinc</SearchParameters>
  <SearchParameters>diabetes</SearchParameters>
  <ResourceUsed>
    <Title>
      Zinc Supplementation for the Prevention of Type 2 Diabetes Mellitus
    </Title>
    <Collection> The Cochrane Library</Collection>
    <CollectionID type="uri">
      "http://www.cochrane.org/reviews/en/ab005525.html"
    </CollectionID>
    <ResourceLocation>
      "http://www.cochrane.org/reviews/en/ab005525.html"
    </ResourceLocation>
    <Relevant>Yes</Relevant>
  </ResourceUsed>
  <ApplicationToPractice>Advised patient that zinc supplementation was not helpful to her condition.</ApplicationToPractice>
</PointOfCareLearningData>

```

## 2 Resource used

ResourceUsed contains subelements that describe a resource used as part of this point of care learning activity.



ResourceUsed has the following elements:

Element	Description	Required	Multiplicity	Datatype
<b>ResourceUsed</b>	ResourceUsed is the subelement of PointOfCareLearningData. It's subelements describe the title and source of a learning resource used as part of this point of care learning experience.	Required	1 or more	Container
Title	Title is the subelement of ResourceUsed that describes the title of a learning resource used as part of this point of care learning experience.	Required	1	Nonnull String
Collection	Collection is the subelement of ResourceUsed that describes the name of the collection that is the source of the article. For example, The Cochrane Library.	Optional	0 or 1	Nonnull String

Element	Description	Required	Multiplicity	Datatype
CollectionID	<p>CollectionID is the subelement of ResourceUsed that provides the unique identifier of the article used by the collection. If the article has a digital object identifier (DOI), it may be used.</p> <p>CollectionID has one attribute:</p> <p><i>type</i> the type of identifier used. For example, DOI, PubMed, or URI.</p>	Optional	0 or 1	Nonnull String
ResourceLocation	ResourceLocation is the subelement of ResourceUsed that provides the URL of the article.	Optional	0 or 1	URI
Relevant	Relevant is the subelement of ResourceUsed that indicates whether or not the learner found the resource relevant. Valid values are: Yes, No.	Optional	0 or 1	Restricted

## References

MedBiquitous Activity Report Specifications and Descriptions Document  
[http://www.medbiq.org/working\\_groups/activity\\_report/ActivityReportSpecification.pdf](http://www.medbiq.org/working_groups/activity_report/ActivityReportSpecification.pdf)

## Appendix: Sample XML Documents

Sample XML for ...