

## Introduzione a

### Unified Medical Language System® (UMLS)

<http://www.nlm.nih.gov/pubs/factsheets/umls.html>

The purpose of NLM's Unified Medical Language System® (UMLS®) is to facilitate the development of computer systems that behave as if they "understand" the meaning of the language of biomedicine and health. To that end, NLM produces and distributes the UMLS Knowledge Sources (databases) and associated software tools (programs) for use by system developers in building or enhancing electronic information systems that create, process, retrieve, integrate, and/or aggregate biomedical and health data and information, as well as in informatics research. By design, the UMLS Knowledge Sources are multi-purpose. They are not optimized for particular applications, but can be applied in systems that perform a range of functions involving one or more types of information, e.g., patient records, scientific literature, guidelines, public health data. The associated UMLS software tools assist developers in customizing or using the UMLS Knowledge Sources for particular purposes.

UMLS Knowledge Sources:

There are three UMLS Knowledge Sources: the Metathesaurus®, the Semantic Network, and the SPECIALIST lexicon.

1)

#### UMLS® Metathesaurus®

<http://www.nlm.nih.gov/pubs/factsheets/umlsmeta.html>

The UMLS Metathesaurus is one of three knowledge sources developed and distributed by the National Library of Medicine as part of the Unified Medical Language System® (UMLS) project. The Metathesaurus contains information about over 1 million biomedical concepts and 5 million concept names from more than 100 controlled vocabularies and classifications (some in multiple languages) used in patient records, administrative health data, bibliographic and fulltext databases and expert systems. It includes vocabularies and coding systems designated as U.S. standards for the exchange of administrative and clinical data, including SNOMED CT®, LOINC®, and RxNorm.

2)

#### UMLS® Semantic Network

<http://www.nlm.nih.gov/pubs/factsheets/umlssemn.html>

The UMLS Semantic Network is one of three UMLS Knowledge Sources developed by the National Library of Medicine as part of the Unified Medical Language System® project. The Network provides a consistent categorization of all concepts represented in the UMLS Metathesaurus®.

MASTER DI I° LIVELLO IN  
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Modulo 9 - Gestione dei dati clinici e standard internazionali

3)

**The SPECIALIST Lexicon**

<http://www.nlm.nih.gov/pubs/factsheets/umlslex.html>

The SPECIALIST lexicon is one of three UMLS® Knowledge Sources under development by the National Library of Medicine (NLM) as part of the Unified Medical Language System® project.

**Tutorial** su Unified Medical Language System (UMLS). Disponibile all'indirizzo URL:

[http://www.nlm.nih.gov/research/umls/presentations/2004-medinfo\\_tut.pdf](http://www.nlm.nih.gov/research/umls/presentations/2004-medinfo_tut.pdf)

Link, indicato dalla freccia, presente alla pagina web: <http://nnlm.gov/mcr/news/?id=968> qui sotto riportata.

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# News and Events

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## News Archive

MidContinental News

**UMLS TUTORIAL - [10-25-04]**

A UMLS PowerPoint tutorial is available online. It was authored by Olivier Bodenreider, Jan Willis and William Hole./ch

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