

Computer Assisted Coding Of Medical Information Market Shares Strategies, and Forecasts 2008 to 2014

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Abstracts

Systems are implemented with natural language pattern recognition in order to assign appropriate billing codes based on the language and the context in which those patterns of language occur. Properly designed natural language processing (NLP) solutions do not require physicians to change the way they work. They can dictate in a free-flowing fashion, consistent with the way they think, and are not limited to structured inputs that may or may not fully capture the unique circumstances of each patient encounter.

Matching codes generated from physician notes to standard treatment protocols promises to improve health care delivery. Accompanying that type of physician patient management against best practice promises to revolutionize health care delivery. The ability of further check as to whether the recommendations for follow up made by radiologists and matching the commendations with the actual follow up heralds' significant promise of vastly improved health care delivery.

Computer assisted coding applications depend on the development of production quality natural language processing (NLP)-based computer assisted coding applications. This requires a process-driven approach to software development and quality assurance.

A well-defined software engineering process consists of requirements analysis, preliminary design, detailed design, implementation, unit testing, system testing and deployment. NLP complex technology defines the key features of a computer assisted coding (CAC) application.

Automation of process will revolutionize health care delivery. In addition to automating the insurance, billing, and transaction systems, streamlined care delivery is an added



benefit. The ability to look at workflow and compare actual care to best practice is fundamental to automated business process.

The ability to link diagnostic patient information to treatment regimes and drug prescriptions is central to improving medical care delivery. Once a physician can see what conditions need to be followed, and see that appropriate care has been prescribed 100% of the time, care delivery improves dramatically. Diagnosis of conditions using radiology frequently results in detection of events that need followup.

Emergency department visits rose 20 percent in 2008, while the number of available emergency centers fell by 15 percent. A study from the American Hospital Association indicated that 62 percent of hospitals feel they are at or over operating capacity. That number jumps to 90 percent when considering Level 1 Trauma Centers and larger (300+ beds) hospitals. According to a report from the General Accounting Office, two-thirds of EDs diverted ambulances.

Worldwide, the computer assisted coding markets are anticipated to grow from \$50.9 million in 2007 to \$2.7 billion in 2014. The markets are primarily U.S. markets because of the primary role that insurance plays in the health care delivery system. Worldwide markets start to grow as more hospitals and physician offices seek to get control of systems costs and introduce automated process systems.



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MDS Medical

QuadraMed

Meditech

LingoLogix

Cerner

Artifical Medical Intelligence AMI

Accuro / CodeCorrect

Language and Computing

PLATO

WCC

Professionals (RBMP)

AHIMA Computer-Assisted Coding Software

Standards Workshop

Radiology Business Management



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