

The Semantic Web and the Integration of Health Data Resources

¹Rachel L. Richesson, MS MPH, ¹James P. Turley, RN PhD, ²Mark S. Tuttle

¹University of Texas School of Health Information Sciences, Houston, TX

²Apelon Corporation, Alameda, CA

ABSTRACT

The integration of knowledge from multiple health data resources (documents, databases, Web content, etc.) faces challenges similar to those of integrating multiple Web pages: the data exist for different purposes and embody different representational schema. The technologies and the framework of the proposed "Semantic Web" can facilitate the aggregation of health data attached with associated descriptions of particular knowledge representation frameworks and other characteristics, and provide the foundation for intelligent applications in medicine in the immediate future.

As a consumer and stakeholder of the Semantic Web, the active involvement of the health care industry is warranted to ensure that the emergent infrastructure and semantics of the "new Internet" address the unique and multidimensional needs of our industry. The focus of this poster is to introduce emergent technologies of the Semantic Web, and more importantly, the vision and infrastructure of the Semantic Web, to medical informatics professionals, and to encourage our participation in these evolving efforts.