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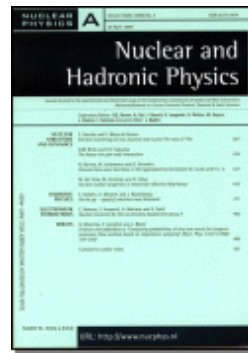
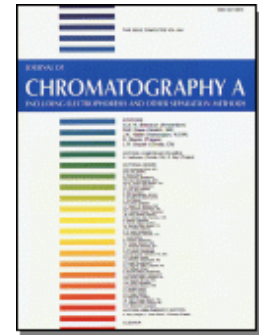
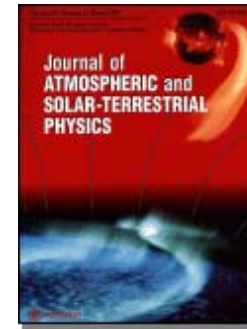
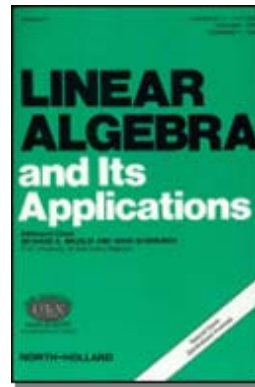
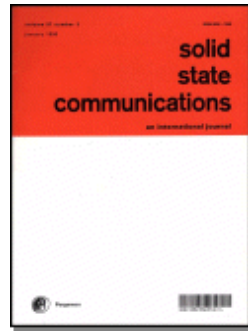
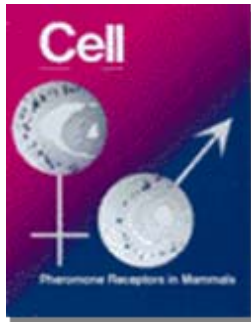


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1. **Vaccine production capacity for seasonal and pandemic (H1N1) 2009 influenza**

*Vaccine*, Volume 27, Issue 38, 20 August 2009, Pages 5184-5186

Nicolas Collin, Xavier de Radiguès and the World Health Organization Task Force

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2. **Development of a real-time RT-PCR for the detection of Swine-lineage Influenza A (H1N1) virus infections**

*Journal of Clinical Virology*, Volume 45, Issue 3, July 2009, Pages 196-199

Michael J. Carr, Rory Gunson, Alasdair Maclean, Suzie Coughlan, Margaret Fitzgerald, Mary Scully, Brian O' Herlihy, John Ryan, Darina O' Flanagan, Jeff Connell, William F. Carman, William W. Hall

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3. **Preparing the outbreak assistance laboratory network in the Netherlands for the detection of the influenza virus A(H1N1) variant**

*Journal of Clinical Virology*, Volume 45, Issue 3, July 2009, Pages 196-199

Adam Meijer, Antoine Beerens, Eric Claas, Mirjam Hermans, Arjan de Jong, Richard Molenkamp, Hubert Niesters, Pieter Overduin, John Rossen, Rob Schuurman, Petra Wolffs, Ron Fouchier, Albert Osterhaus, Martin Schutten, Marion Koopmans

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4. **Immunoinformatic comparison of T-cell epitopes contained in novel swine-origin influenza A (H1N1) virus with epitopes in 2008 - 2009 conventional influenza vaccine**

*Vaccine*, *In Press, Uncorrected Proof*, Available online 4 August 2009



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Volume 28, Issue 1, April 1993, Pages 37-55

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## Genetic and antigenic analyses of influenza A (H1N1) viruses, 1986 - 1991

Xu Xiyang<sup>a</sup>, Elisabet P. Rocha<sup>a</sup>, Helen L. Regener<sup>a</sup>, Alan P. Kendal<sup>a</sup> and Nancy J. Cox<sup>a</sup>

<sup>a</sup>Influenza Branch, Division of Field Epidemiology, Centers for Disease Control and Prevention, Atlanta, GA, USA

Received 8 September 1992; accepted 15 December 1992. Available online 15 December 1992.

### Abstract

Eighteen strains of human influenza A virus were isolated in August 1986 and January 1987. The total viral genome of 12 strains

### The antigenicity and evolution of influenza H1 haemagglutinin, from 1950 - 1957 and 1977 - 1983: Two pathways from one gene

*Virology*, Volume 148, Issue 2, 30 January 1986, Pages 275-287

F. L. Raymond, A. J. Caton, N. J. Cox, A. P. Kendal, G. G. Brownlee

### Abstract

Nucleotide sequence analysis of the region of the haemagglutinin gene coding for the HA1 domain of the protein was performed on 19 human influenza A strains of H1 subtype representative of the two epidemic periods from 1977 - 1983 and from 1950 - 1957. The amino acid changes

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### Table of Contents

- Preface, Pages xi-xii  
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- Chapter 1 - The Time Value of Information, Pages 1-22**  
Preview PDF (1778 K) | Related Articles
- Chapter 2 - Precise But Useless Data, Pages 23-42  
Preview PDF (1535 K) | Related Articles
- Chapter 3 - What Not To Know, Pages 43-54  
Preview PDF (689 K) | Related Articles
- Chapter 4 - Accelerated Testing Catalog, Pages 55-75  
Preview PDF (1954 K) | Related Articles
- Chapter 5 - Design Failure Mode Effects Analysis (DFMEA)  
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CHAPTER  
**1**

## The Time Value of Information

“All for want of a nail...”  
Remember the old rhyme?

*For want of a nail, a shoe was lost  
For want of a shoe, a horse was lost  
For want of a horse, a rider was lost  
For want of a rider, a message was lost  
For want of a message, a battle was lost  
For want of a battle, a kingdom was lost  
All for want of a nail.*

—George Herbert (1593-1632)

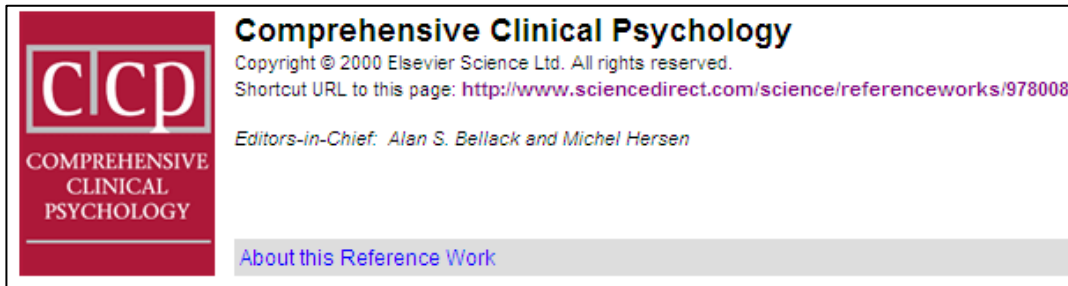
This little rhyme may be cute, and illustrate how one critical detail can ruin your whole day, but it is extremely relevant to the issue of this book and this chapter.

Without the right piece of information at the right time, the battle

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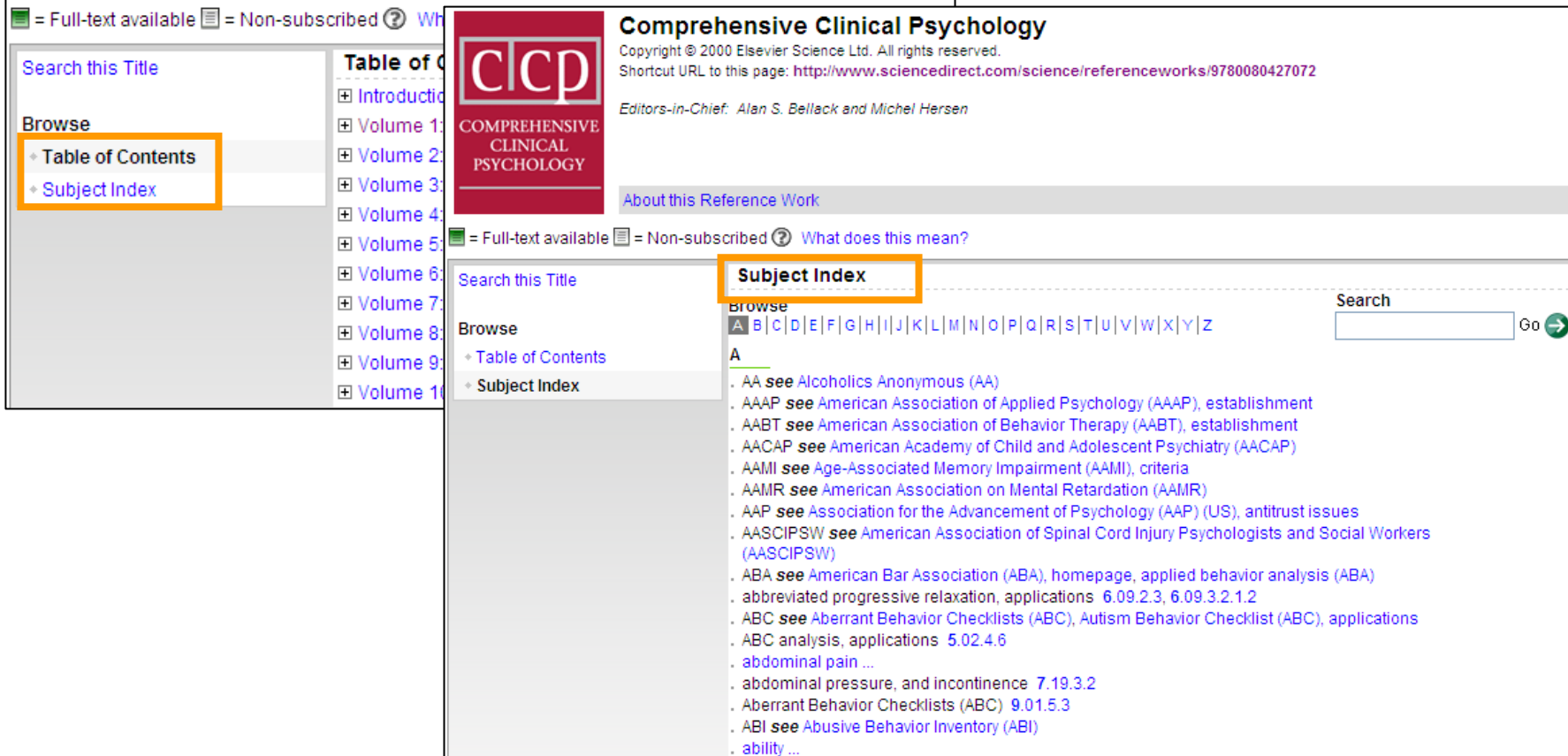
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- . abbreviated progressive relaxation, applications 6.09.2.3, 6.09.3.2.1.2
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- . ABC analysis, applications 5.02.4.6
- . abdominal pain ...
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



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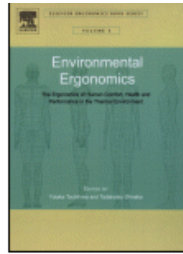
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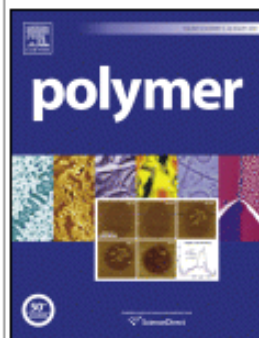
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Letty Aarts and Ingrid van Schagen

Institute for Road Safety Research SWOV, Duindoorn 32, 2260 BB Leidschendam, Netherlands  
Received 15 April 2005. Available online 27 October 2005.

### Abstract

Driving speed is an important factor in road safety. Speed not only affects the severity of a crash, but is also related to the risk of being involved in a crash. This paper discusses the most important empirical studies into speed and crash rate with an emphasis on the more recent studies. The majority of these studies looked at absolute speed, either at individual vehicle level or at road section level. Respectively, they found evidence for an exponential function and a power function between speed and crash rate. Both types of studies found evidence that crash rate increases faster with an increase in speed on minor roads than on major roads. At a more detailed level, lane width, junction density, and traffic flow were found to interact with the speed - crash rate relation. Other studies looked at speed dispersion and found evidence that this is also an important factor in determining crash rate. Larger differences in speed between vehicles are related to a higher crash rate. Without exception, a vehicle that moved (much) faster than other traffic around it, had a higher crash rate. With regard to the rate of a (much) slower moving vehicle, the evidence is inconclusive.

**Keywords:** Driving speed; Speed variance; Crash rate; Literature review

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