

## WITNESSING REFERENCES

### GENERAL WITNESSING

Adams S; Carthey, J. 'IVF witnessing and electronic systems', 2006

Plebani M & Carraro, Mistakes in a stat laboratory: types and frequency.  
*Clin Chem.* 1997 Aug;43(8 Pt 1):1348-51.

Reason J. Human error models and management. *BMJ* 2000; 320; 768-770.

Stainsby, D, Williamson, Jones H and Cohen H. 6 Years of shot reporting--its influence on UK blood safety. *Transfus Apher Sci.* 2004;31(2):123-31.

Toft B, Independent review of the circumstances surrounding four adverse events that occurred in the Reproductive Medicine Units at The Leeds Teaching Hospitals NHS Trust, West Yorkshire, Department of Health, June 2004.

Toft B & H Mascie-Taylor. Involuntary Automaticity: a work-system induced risk to safe health care'. *Healthcare Services Management Research*, 2005, 18(2):211-217.

Toft, B. 'Peer review: IVF witnessing and electronic systems- Adams, S & Carthey, J.', 2006

Vincent C, Patient Safety, *Church Livingstone Elsevier*, 2006, p.209.

### BAR CODING SYSTEMS

#### Journal articles

Ahrens N, Pruss A, Kiesewetter H, Salama A. Failure of bedside ABO testing is still the most common cause of incorrect blood transfusion in the Barcode era. *Transfus Apher Sci.* (2005) Aug;33(1):25-9.

Al-Watban FA, Andres BL. Polychromatic LED in oval full-thickness wound healing in non-diabetic and diabetic rats. *Photomed Laser Surg* (2006) 24(1): 10-16

Bates DW, Cohen M, Leape LL, Overhage JM, Shabot MM, Sheridan T. Reducing the frequency of errors in medicine using information technology. *J Am Med Inform Assoc.* (2001) Jul-Aug;8(4):299-308.

Belkin M and Schwartz M. New biological phenomena associated with laser radiation. *Health Phys* (1989) 56(5): 687-690

Berki et al. Effects of photosensitization and low power helium-neon laser irradiation on liposomes and cell membranes. *Scanning Microsc* (1991); 5(4): 1157-64.

Colver GB and Priestley GC. Failure of a helium-neon laser to affect components of wound healing in vitro. *BJD* (1989) 121: 179-186

Cope M. PhD Thesis Univ College London 1991

Cummings J, Ratko T, Matuszewski, MS. Barcoding to Enhance Patient Safety. *Patient Safety & Quality Healthcare* (September/October 2005).

Davies A, Staves J, Kay J, Casbard A, & Murphy M, End-to-end electronic control of the hospital transfusion process to increase the safety of blood transfusion: strengths and weaknesses, *Transfusion* (2006), 46

De With A & Greulich KO. Wavelength dependence of laser-induced DNA damage in lymphocytes observed by single-cell gel electrophoresis. *J Photochem Photobiol B* (1995) 30:71-76

Dinkins MB et al. Photosensitive chemical and laser light treatments decrease epizootic hemorrhagic disease virus associated with *in vitro* produced bovine embryos. *Theriogenology*. (2001) 55(8):1639-55.

Dobson J, Wilson M. Sensitisation of oral bacteria in biofilms to killing by light from a low-power laser. *Arch Oral Biol* (1992) 37(11) 883-887

Gulsoy M et. al. The biological effects of 632.8 nm low energy He-Ne laser on peripheral blood mononuclear cells in vitro. *J Photochem Photobiol B* (2006) 82: 199-202

Hale & Querry. *Appl Opt* (1973) 12(3) 555-563

Hallman HO et.al. Does low energy helium-neon laser irradiation alter 'in vitro' replication of human fibroblasts? *Lasers Surg Med* (1988) 8: 125-129

Hawkins DH & Abrahamse H. The role of laser fluence in cell viability, proliferation, and membrane integrity of wounded human skin fibroblasts following helium-neon laser irradiation. *Lasers Surg Med* (2006) 38: 74-83

Karu TI. Nonmonotonic behaviour of the dose dependence of the radiation effect on cells in vitro exposed to pulsed laser radiation at 820 nm. *Lasers Surg Med* (1997) 21: 485-492

Kujawa et al. Cell survival, DNA, and protein damage in B14 cells under low intensity near infrared (810nm) laser irradiation. *Photomed Laser Surg*. 22(6):504-8. (2004).

Laufer et al. The efficacy and safety of zona pellucida drilling by a 193nm excimer laser. *Fertil Steril.* 59(4):889-95. (1993).

Luza and Hubacek. In vitro He-Ne laser effect on some immunological functions of the polymorphonuclears and monocytes in rabbits. *Acta Univ Palacki Olomuc Fac Med.* (1996); 140:43-6.

McDonald C J, Computerisation Can Create Safety Hazards: A Bar-coding Near Miss. *Annals Internal Medicine*, (2006) p.510.

Mester AF, Snow JB and Shaman P. Photochemical effects of laser irradiation on neuritic outgrowth of olfactory neuroepithelial explants. *Otolaryngology: head and neck surgery* (1991) 105(3): 449-456

Miyata et al. Network computer-assisted transfusion-management system for accurate blood component-recipient identification at the bedside. *Transfusion* (2004) 44(3):364-72

Mohanty et al. Comet assay measurements of DNA damage in cells by laser microbeams and trapping beams with wavelengths spanning a range of 308nm to 1064nm. *Radiat. Res.* (2002) 157(4):378-85.

Murphy and Kay. Barcode identification for transfusion safety. *Current Opinion in Hematology.* (2004)11(5):334-8

Nichols et al. Reducing medical errors through bar coding at the point of care. *Clinical Leadership Management Rev.* (2004) 18(6):328-34

Ocana-Quero JM et al. Biological effects of helium-neon (He-Ne) laser irradiation on acrosome reaction in bull sperm cells. *J Photochem Photobiol B* (1997) 40: 294-298

Oren E, Shaffer ER, Guglielmo BJ. Impact of emerging technologies on medication errors and adverse drug events. *Am J Health Syst Pharm.* (2003) Jul 15;60(14):1447-58

Patterson ES, Rogers ML, Chapman RJ, Render ML. Compliance with intended use of Bar Code Medication Administration in acute and long-term care: an observational study. *Hum Factors.* (2006) 48(1):15-22

Patterson ES, Cook RI, Render ML. Improving patient safety by identifying side effects from introducing bar coding in medication administration. *J Am Med Inform Assoc.* (2002) 9(5):540-53

Perrin RA and Simpson N. RFID and bar codes--critical importance in enhancing safe patient care. *J Healthc Inf Manag.* (2004)18(4):33-9

Polla LL et. al. Melanosomes are a primary target of Q-switched ruby laser irradiation in guinea pig skin. *J Invest Dermatol* (1987) 89(3): 281-286

Rimoldi et al. DNA damage in cultured human skin fibroblasts exposed to excimer laser radiation. *J Invest Dermatol.* (1991) 96(6): 898-902.

Rosen, R. Medication errors: a 21<sup>st</sup> century perspective. *Health Care Research and Improvement.* (2004); 17:464-467.

Schindl A, Schindl M, and Schindl L. Low-intensity laser therapy: a review *J Invest Med* (2000) 48 (5): 312-326

Schwartz et al. Effect of helium/neon laser irradiation on nerve growth factor synthesis and secretion in skeletal muscle cultures. *J Photochem Photobiol B.* (2002); 68(2-3):165.

Simonian NV, Voskanian KSh. Effect of laser radiation and combined ionizing radiation on the cell division time of bacteria. *Radiobiologija.* (1988); 28(2):262-4

Soudry et al. Effect of a helium-neon laser on cellular growth; an in vitro study of human gingival fibroblasts. *J Biol Buccale.* (1988); 16(3):129-35.

Spodaryk K. The influence of low-power laser energy on red blood cell metabolism and deformability. *Clin Hemorheol Microcirc.* (2001); 25(3-4):145-51.

Turner CL, Casbard AC, Murphy MF. Barcode technology: its role in increasing the safety of blood transfusion. *Transfusion.* 2003;43(9):1200-9.

van der Sijs H, Aarts J, Vulto A, Berg M. Overriding of drug safety alerts in computerized physician order entry. *J Am Med Inform Assoc.* (2006);13(2):138-47

Ward GD et. al. Bactericidal action of high-power Nd:YAG laser light on *Escherichia coli* in saline suspension. *J Appl Microbiol* (2000) 89(3) 517-25

Young AR. Chromophores in human skin. *Phys Med Biol* (1997) 42: 789-802

Young S, Bolton P, Dyson M, Harvey W, Diamontopoulos C. Macrophage responsiveness to light therapy. *Lasers Surg Med* (1989) 9: 497-505

### **Websites and reports**

Adams S; Carthey, J. 'IVF witnessing and electronic systems', 2006

Bjorndahl, L, Barratt, CLR, 'Sex Selection – a survey of laboratory methods and clinical results', 2002.

Carolan-Rees, G. 'IVF and barcoding systems: Risks of light exposure', 2006

Toft, B. 'Peer review: IVF witnessing and electronic systems- Adams, S & Carthey, J.', 2006

'Implementation guide for the use of bar code technology in healthcare', Healthcare Information and Management Systems Society, 2003, [http://www.himss.org/content/files/Implementation\\_guide.pdf](http://www.himss.org/content/files/Implementation_guide.pdf)

'Right Patient-right care', NHS Patient Safety Agency, 2004.

'Summary of non-biometric technologies'. Cambridge Consultants, January 2004.

'Technologies used in healthcare', Cambridge Consultants, January 2004.

US Food and Drug Administration, [www.fda.gov/oc/initiatives/barcode-sadr/fs-barcode.html](http://www.fda.gov/oc/initiatives/barcode-sadr/fs-barcode.html)

Cryosafe, [www.cryosafe.com](http://www.cryosafe.com)

EPCoT Systems, [www.epcot.co.uk](http://www.epcot.co.uk)

IMT International, [www.cryo-imt.com](http://www.cryo-imt.com)

Quadrus 2D code reader, [www.microscan.com](http://www.microscan.com)

Sato UK, [www.satouk.com](http://www.satouk.com)

Trisoft, [www.trisoft.co.uk](http://www.trisoft.co.uk)

## **RADIO FREQUENCY IDENTIFICATION SYSTEMS**

### **Journal articles**

'Recent Advance in Research on Radiofrequency Fields and Health:2001-2003.'  
*Journal of Toxicological and Environmental Health, Part B*, (2003) Vol 4-4,

Aitken et al. Impact of radio frequency electromagnetic radiation on DNA integrity in the male germline. *International Journal of Andrology*. (2005) 28: 171-179

d'Ambrosio et al. (2002). Cytogenetic damage in human lymphocytes following GSM phase modulated microwave exposure. *Bioelectromagnetics*. (2002) 23(1):7-13

Cummings J, Ratko T, Matuszewski, MS. Barcoding to Enhance Patient Safety. *Patient Safety & Quality Healthcare* (September/October 2005).

Heynick and Merritt. Radiofrequency fields and teratogenesis. *Bioelectromagnetics Supplement*. (2003) 6:S174-S186

Kane. A possible association between fetal/neonatal exposure to radiofrequency electromagnetic radiation and the increased incidence of autism spectrum disorders. *Med Hypotheses* (2004) 62 (2): 195-7.

Kilgallon and Simmons. Image Content Influences Men's Semen Quality. *The Royal Society – Biology Letters* 2005.

Krewski et al. Potential health risks of radiofrequency fields from wireless telecommunication devices. *J Toxicol Environ Health B Crit Rev* (2001) 4:1-143

Lai and Singh. Acute exposure to a 60Hz magnetic field increases DNA strand breaks in rat brain. *Bioelectromagnetics*. (1998)18(2):156-165

Lai and Singh. Acute low intensity microwave exposure increases DNA single strand breaks in rat brain cells. *Bioelectromagnetics* (1995)16, 207-210

Lai and Singh. Single and double strand DNA breaks in rat brain cells after acute exposure to radiofrequency electromagnetic radiation. *Int J Radiat Biol*. (1996) 69 (4):513-21

Maes et al. In Vitro cytogenetic effects of 2450 MHz waves on human peripheral blood lymphocytes. *Bioelectromagnetics* (1993)14, 495-501

Malyapa et al. DNA damage in rat brain cells after in vivo exposure to 2450 MHz electromagnetic radiation and various methods of euthanasia. *Radiat. Res*. (1998) 149, 637-645

Malyapa et al. Measurement of DNA damage after exposure to 2450 MHz electromagnetic radiation. *Radiat. Res*. (1997) 148, 608-617

Meltz. Radiofrequency exposure and mammalian cell toxicity, genotoxicity and transformation. *Bioelectromagnetics*. (2003) 24: S196-S213.

Moulder et al. Cell phones and cancer: what is the evidence for connection? *Radiation Research*. (1999) 151, 513-531

Perrin RA and Simpson N. RFID and bar codes--critical importance in enhancing safe patient care. *J Healthc Inf Manag.* (2004)18(4):33-9

Roark DC, Miguel K. RFID: bar coding's replacement? *Nurs Manage.* (2006) 37(2):28-31

Stockman, H. Communication by Means of Reflected Power. *Proceedings of the IRE,* (1948),1196-1204.

Tice et al. Genotoxicity of radiofrequency signals. I. Investigation of DNA damage and micronuclei induction in cultured human blood cells.

*Bioelectromagnetics.*(2002) 23(2):113-26

Tofani et al. Effects of continuous low level exposure to radiofrequency radiation on intrauterine development in rats. *Health Phys.* (1986) 51:489-499

van der Sijs H, Aarts J, Vulto A, Berg M. Overriding of drug safety alerts in computerized physician order entry. *J Am Med Inform Assoc.* (2006)13(2):138-47

Vijaylaxmi et al. Proliferation and cytogenetic studies in human blood lymphocytes exposed in vitro to 2450 MHz radiofrequency radiation. *Int. J. Radiat. Biol.*(1997) 72, 751-757

Youbicier-Simo et al. Biological effects of continuous exposure of embryos and young chickens to electromagnetic fields emitted by video display units.

*Bioelectromagnetics* (1997) 18(7)

### **Websites and reports**

Adams S; Carthey, J. 'IVF witnessing and electronic systems', 2006

Toft, B. 'Peer review: IVF witnessing and electronic systems- Adams, S & Carthey, J.', 2006

'Description of technologies and examples of application in other industries', Cambridge Consultants, January 2004.

'Item level visibility in the pharmaceutical supply chain: a comparison of HF and UHF RFID technologies.' Philips, TAGSYS and Texas Instruments Inc. 2004.  
<http://www.tagsys.net/modules/tagsys/upload/news/TAGSYS-TI-Philips-White-Paper.pdf>

'Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields', Federal Communications Commission,  
[http://www.fcc.gov/Bureaus/Engineering\\_Technology/Documents/bulletins/oet56/oet56e4.pdf](http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf)

'Radio ID Tags: Beyond Bar Code', Kendra Mayfield 2002.  
<http://www.wired.com/news/technology/0,1282,52343,00.html>

'Right Patient – right care.' National Patient Safety Agency, 2004.

Technical Report, Research Instruments, 2005

'Technologies used in healthcare', Cambridge Consultants, January 2004.

Alexandra Hospital, Singapore, use of RFID tags, [www.epic.org/privacy/rfid](http://www.epic.org/privacy/rfid)

European Telecommunications Standards Institute, <http://www.etsi.org/>

EPCoT Systems, [www.epcot.co.uk](http://www.epcot.co.uk)

IBM, [www-3.ibm.com/solutions/lifesciences](http://www-3.ibm.com/solutions/lifesciences)

Identec Solutions RFID, [http://www.identecsolutions.com/comp\\_adv.asp](http://www.identecsolutions.com/comp_adv.asp)

Gillette, Wal-Mart and Tesco 'smart shelves', <http://www.pcw.co.uk/news/115847>,  
[http://news.zdnet.com/2100-9584\\_22-5202240.html](http://news.zdnet.com/2100-9584_22-5202240.html)

Marks and Spencers RFID trials, <http://www.pcw.co.uk/analysis/1141888>

Quelis ID systems RFID tags,  
<http://www.rfidjournal.com/article/articleview/622/1/1/>

Research being conducted by Associate Professor Bruce King at University of Newcastle, Australia, <http://english.sina.com/technology/1/2005/0218/21487.html>

Research Instruments, [www.research-instruments.com](http://www.research-instruments.com)

Selfridges use of RID technology, <http://www.pcw.co.uk/news/11511609>

Texas Instruments RFID eNews,  
<http://www.ti.com/rfid/docs/news/eNews/eNewsVol6.pdf>

Trisoft, [www.trisoft.co.uk](http://www.trisoft.co.uk)

Verichip (implantable RFID chip), [www.prisonplanet.com/barcoding\\_humans.html](http://www.prisonplanet.com/barcoding_humans.html) and <http://www.4verichip.com>

