- 34. Wakeford R, Little MP. Risk coefficients for childhood cancer after intrauterine irradiation: a review. *International Journal of Radiation Biology*, 2003, 79(5):293–309.
- 35. Biological effects after prenatal irradiation (embryo and fetus). Ottawa, International Commission on Radiological Protection, 2003 (Annals of the ICRP, 90(33):1–2).
- 36. Preston DL et al. Solid cancer incidence in atomic bomb survivors exposed in utero or as young children. *Journal of the National Cancer Institute*, 2008, 100(6):428–436.
- 37. Hancock SL et al. Thyroid diseases after treatment of Hodgkin's disease. *New England Journal of Medicine*, 1991, 325(9):599–605.
- 38. Huysmans DA et al. Long-term results of two schedules of radioiodine treatment for toxic multinodular goitre. *European Journal of Nuclear Medicine*, 1993, 20(11):1056–1062.
- 39. Peters H et al. Radioiodine therapy of Graves' hyperthyroidism: standard vs. calculated 131iodine activity. Results from a prospective, randomized, multicentre study. *European Journal of Clinical Investigation*, 1995, 25(3):186–193.
- 40. Metso S et al. Long-term follow-up study of radioiodine treatment of hyperthyroidism. *Clinical Endocrinology*, 2004, 61(5):641–648.
- 41. Ostroumova E et al. Subclinical hypothyroidism after radioiodine exposure: Ukrainian-American cohort study of thyroid cancer and other thyroid diseases after the Chornobyl accident (1998–2000). *Environmental Health Perspectives*, 2009, 117(5):745–750.
- 42. Larsen PR et al. Thyroid hypofunction after exposure to fallout from a hydrogen bomb explosion. *The Journal of the American Medical Association*, 1982, 247(11):1571–1575.
- 43. *Risk to the thyroid from ionizing radiation*. National Council on Radiation Protection and Measurements, 2008.
- 44. Ron E, Brenner A. Non-malignant thyroid diseases after a wide range of radiation exposures. *Radiation Research*, 2010, 174(6):877–888.
- 45. Hall P et al. Thyroid nodularity after diagnostic administration of iodine-131. *Radiation Research*, 1996, 146(6):673–682.
- 46. Land CE et al. Ultrasound-detected thyroid nodule prevalence and radiation dose from fallout. *Radiation Research*, 2008, 169(4):373–383.
- 47. Lyon JL et al. Thyroid disease associated with exposure to the Nevada nuclear weapons test site radiation: a reevaluation based on corrected dosimetry and examination data. *Epidemiology*, 2006, 17(6):604–614.
- 48. Zablotska LB et al. A cohort study of thyroid cancer and other thyroid diseases after the Chornobyl accident: dose-response analysis of thyroid follicular adenomas detected during first screening in Ukraine (1998–2000). *American Journal of Epidemiology*, 2008, 167(3):305–312.
- 49. Pillai NK et al. Nodular lesions of the thyroid in an area of high background radiation in Coastal Kerala, India. *Indian Journal of Medical Research*, 1976, 64(4):537–544.
- 50. Wang ZY et al. Thyroid nodularity and chromosome aberrations among women in areas of high background radiation in China. *Journal of the National Cancer Institute*, 1990, 82(6): 478–485.
- 51. Deans DS, Gharib H. Epidemiology of thyroid nodules. *Best Practice & Research: Clinical Endocrinology & Metabolism*, 2008, 22(6):901–911.
- 52. Imaizumi M et al. Long-term prognosis of thyroid nodule cases compared with nodule-free controls in atomic bomb survivors. *The Journal of Clinical Endocrinology and Metabolism*, 2005, 90(9):5009–5014.

- Ahmed S et al. Prevalence of unsuspected thyroid nodules in adults on contrast enhanced 16- and 64-MDCT of the chest. World Journal of Radiology, 2012, 4(7):311-317.
- 54. Ainsbury EA et al. Radiation cataractogenesis: a review of recent studies. Radiation Research, 2009, 172(1):1-9.
- Neriishi K et al. Radiation dose and cataract surgery incidence in atomic bomb survivors, 1986–2005. Radiology, 2012, 265(1):167–174.
- 56. Shimizu Y et al. Radiation exposure and circulatory disease risk: Hiroshima and Nagasaki atomic bomb survivor data, 1950-2003. British Medical Journal, 2010.
- 57. Hauptmann M et al. Mortality from diseases of the circulatory system in radiologic technologists in the United States. American Journal of Epidemiology, 2003, 157(3):239–248.
- Little M et al. Analysis of dose response for circulatory disease after radiotherapy for benign disease. International Journal of Radiation Oncology Biology Physics, 2012, 84(5):1101-119.
- Ivanov VK et al. The risk of radiation-induced cerebrovascular disease in Chernobyl emer-59. gency workers. *Health Physics*, 2006, 90(3):199-207.
- 60. Azizova TV et al. Ischemic heart disease in nuclear workers first employed at the Mayak PA in 1948-1972. Health Physics, 2012, 103(1):3-14.
- 61. Little MP et al. Systematic review and meta-analysis of circulatory disease from exposure to low-level ionizing radiation and estimates of potential population mortality risks. Environmental Health Perspectives, 2012, 120(11):1503-1511.
- 62. Azizova TV et al. Cerebrovascular diseases in nuclear workers first employed at the Mayak PA in 1948-1972. Radiation and Environmental Biophysics, 2011, 50(4):539-552.
- Little MP et al. Review and meta-analysis of epidemiological associations between low/moderate doses of ionizing radiation and circulatory disease risks, and their possible mechanisms. Radiation and Environmental Biophysics, 2010, 49(2):139–153.
- 64. ICRP Statement on Tissue Reactions/early and late effects of radiation in normal tissues and organs - threshold doses for tissue reactions in a radiation protection context. Ottawa, International Commission on Radiological Protection, 2012 (Annals of the ICRP, 118(41):1-2).
- 65. Pregnancy and medical radiation. Ottawa, International Commission on Radiological Protection, 2000 (Annals of the ICRP, 84(30):1).
- Hereditary Effects of Radiation. Annex in: Hereditary Effects of Radiation. UNSCEAR 2001 report to the General Assembly. Vienna, United Nations Scientific Committee on the effect of Atomic Radiation, 2001 (http://www.unscear.org/unscear/en/publications/2001.html, accessed 21 November 2012).
- 67. Nakamura N et al. Genetic effects of radiation in atomic-bomb survivors and their children: past, present and future. Journal of Radiation Research, 2006, 47(Suppl B):B67-B73.
- 68. Winther JF. Genetic disease in the children of Danish survivors of childhood and adolescent cancer. Journal of Clinical Oncology, 2012, 30(1):27–33.
- 69. Waselenko JK et al. Medical management of the acute radiation syndrome: recommendations of the Strategic National Stockpile Radiation Working Group. Annals of Internal Medicine, 2004, 140(12):1037-1051.
- Preston DL et al. Solid cancer incidence in atomic bomb survivors:1958-1998. Radiation Research, 2007, 168(1):1-64.

- 71. Non-targeted and delayed effects of exposure to ionizing radiation. Annex C in: Effects of ionizing radiation. UNSCEAR 2006 report to the General Assembly, Vol II. Vienna, United Nations Scientific Committee on the Effects of Atomic Radiation, 2008 (<a href="http://www.unscear.org/docs/reports/2006/09-81160\_Report\_Annex\_C\_2006\_Web.pdf">http://www.unscear.org/docs/reports/2006/09-81160\_Report\_Annex\_C\_2006\_Web.pdf</a>, accessed 16 November 2012).
- 72. Little MP et al. Risk associated with low doses and low dose rates of ionizing radiation: why linearity may be (almost) the best we can do. *Radiology*, 2009, 251(1):6–12.
- 73. Little MP et al. Do non-targeted effects increase or decrease low dose risk in relation to the linear-non-threshold (LNT) model?. *Mutation Research*, 2010, 687(1–2):17–27.
- 74. Jacob P et al. Is cancer risk of radiation workers larger than expected? *Occupational and Environmental Medicine*, 2009, 66(12):789–796.
- 75. Krestinina LY et al. Solid cancer incidence and low-dose-rate radiation exposures in the Techa River cohort: 1956–2002. *International Journal of Epidemiology*, 2007, 36(5):1038–1046.
- 76. Brenner AV et al. I-131 dose response for incident thyroid cancers in Ukraine related to the Chornobyl accident. *Environmental Health Perspective*, 2011, 119(7):933–939.
- 77. Wakeford R. Cancer risk modelling and radiological protection. *Journal of Radiological Protection*, 2012, 32(1):N89–N93.
- 78. Thomas D et al. Definition and estimation of lifetime detriment from radiation exposures: principles and methods. *Health Physics*, 1992, 63(3):259–272.
- 79. Vaeth M, Pierce D. Calculating excess lifetime risk in relative risk models. *Environmental Health Perspectives*, 1990, 87:83–94.
- 80. Kellerer AM et al. On the conversion of solid cancer excess relative risk into lifetime attributable risk. *Radiation and Environmental Biophysics*, 2001, 40(4):249–257.
- 81. Kellerer AM et al. Risk coefficient for gamma-rays with regard to solid cancer. *Radiation and Environmental Biophysics*, 2002, 41(2):113–123.
- 82. Health effects due to radiation from the Chernobyl accident. Annex D in: Sources and effects of ionizing radiation. UNSCEAR 2008 report to the General Assembly, Vol II. Vienna, United Nations Scientific Committee on the Effects of Atomic Radiation, 2011 (<a href="http://www.unscear.org/docs/reports/2008/11-80076\_Report\_2008\_Annex\_D.pdf">http://www.unscear.org/docs/reports/2008/11-80076\_Report\_2008\_Annex\_D.pdf</a>, accessed 16 November 2012).
- 83. Epidemiological studies of radiation and cancer. Annex A in: Effects of ionizing radiation. UNSCEAR 2006 report to the General Assembly, Vol I. Vienna, United Nations Scientific Committee on the Effects of Atomic Radiation, 2008 (<a href="http://www.unscear.org/docs/reports/2006/07-82087\_Report\_Annex\_A\_2006\_Web\_corr.pdf">http://www.unscear.org/docs/reports/2006/07-82087\_Report\_Annex\_A\_2006\_Web\_corr.pdf</a>, accessed 16 November 2012).
- 84. Radiation Effects Research Foundation. [Online]. [cited 2012 October](<a href="http://www.rerf.jp/index\_e.html">http://www.rerf.jp/index\_e.html</a>, accessed 25 November 2012).
- 85. Walsh L, Kaiser JC. Multi-model inference of adult and childhood leukaemia excess relative risks based on the Japanese A-bomb survivors mortality data (1950–2000). *Radiation and Environmental Biophysics*, 2011, 50(1):21–35.
- 86. Little MP et al. New models for evaluation of radiation-induced lifetime cancer risk and its uncertainty employed in the UNSCEAR 2006 report. *Radiation Research*, 2008, 169(6): 660–676.
- 87. Health risks from exposure to low levels of ionizing radiation: BEIR VII Phase 2. Washington, DC, National Academy of Science National Research Council Committee to Assess

- Health Risks from Exposure to Low Levels of Ionizing Radiation, 2006 (http://www.nap.edu/ openbook.php?isbn=030909156X, accessed 25 November 2012).
- EPA radiogenic cancer risk models and projections for the US Population. EPA 402-88. R-11-001.Washington, DC, Environmental Protection Agency, 2011 (http://www.epa.gov/ radiation/docs/bluebook/bbfinalversion.pdf, accessed 21 November 2012).
- 89. Berrington de Gonzalez A et al. RadRAT: a radiation risk assessment tool for lifetime cancer risk projection. Journal of Radiological Protection, 2012, 32(3):205-222.
- 90. Wakeford R. Radiation effects: modulating factors and risk assessment - an overview. In: Proceedings of the First Symposium on the system of radiological protection. Washington, DC, 2012:98-107.
- Preston DL et al. Effect of recent changes in atomic bomb survivor dosimetry on cancer mortality risk estimates. Radiation Research, 2004, 162(4):377-389.
- 92. Daniels RD, Schubauer-Berigan MK. A meta-analysis of leukaemia risk from protracted exposure to low-dose gamma radiation. Occupational and Environmental Medicine, 2011, 68(6):457-464.
- 93. Environmental consequences of the Chernobyl accident and their remediation: twenty years of experience. Report of the Chernobyl Forum Expert Group "Environment-2. Vienna, International Atomic Energy Agency, 2006 (http://www-pub.iaea.org/mtcd/publications/pdf/ pub1239\_web.pdf, accessed 16 November 2012).
- 94. Menzel HG, Harrison J. Dosimetric quantities in radiological protection and risk assessment. Journal of Radiological Protection, 2012, 32(1):N41-N46.
- Derived intervention levels for radionuclides in food: guidelines for application after widespread radioactive contamination resulting from a major radiation accident. Geneva, World Health Organization, 1988 (http://apps.who.int/iris/bitstream/10665/40421/1/9241542330\_eng. pdf, accessed 16 November 2012).
- 96. Application of the commission's recommendations to the protection of people living in longterm contaminated areas after a nuclear accident or a radiation emergency. Ottawa, International Commission on Radiological Protection, 2009 (Annals of the ICRP, 111(39):3).
- Golikov VY et al. External exposure of the population living in areas of Russia contaminated due to the Chernobyl accident. Radiation and Environmental Biophysics, 2002, 41(3):183-193.
- 98. Exposures from the Chernobyl accident. Annex D in: Sources, effects and risks of ionizing radiation. UNSCEAR 1988 report to the General Assembly, Vol II. Vienna, United Nations Scientific Committee on the Effects of Atomic Radiation, 1988 (http://www.unscear.org/ docs/reports/1988/1988i\_unscear.pdf, accessed 16 November 2012).
- 99. UNSCEAR 2008 report to the General Assembly, with scientific annexes. Health effects due to radiation from the Chernobyl accident, 2011.
- 100. Final report of the international mission to support the remediation of large contaminated areas off-site of the Fukushima Daiichi Nuclear Power Plant (NPP). Document NE/ NEFW/2011. Vienna, International Atomic Energy Agency, 2011 (http://www.iaea.org/newscenter/focus/fukushima/final\_report151111.pdf, accessed 16 November 2012).
- 101. Website from the Tokyo Electric Power Company (in Japanese). [Online]. [cited November 2012 (http://www.tepco.co.jp/cc/press/betu12\_j/images/120309d.pdf, accessed 02 December 2012).
- 102. WHO human health risk assessment toolkit: chemical hazards. World Health Organization, 2010 (IPCS Harmonization project). (http://www.who.int/ipcs/publications/methods/harmonization/en/index.html, accessed 28 December 2012).

- 103. Exposures of the public and workers from various sources of radiation. Annex B in: Sources and effects of ionizing radiation. UNSCEAR 2008 report to the General Assembly, Vol I. Vienna, United Nations Scientific Committee on the Effects of Atomic Radiation, 2008 (<a href="http://www.unscear.org/docs/reports/2008/09-86753\_Report\_2008\_Annex\_B.pdf">http://www.unscear.org/docs/reports/2008/09-86753\_Report\_2008\_Annex\_B.pdf</a>, accessed 27 November 2011)
- 104. Matsuda T et al. Cancer incidence and incidence rates in Japan in 2004: based on data from 14 population-based cancer registries in the monitoring of cancer incidence in Japan (MCIJ) Project. *Japanese Journal of Clinical Oncology*, 2010, 40(12):1192–1200.
- 105. Preston DL et al. Studies of mortality of atomic bomb survivors, Report 13: solid cancer and non-cancer mortality: 1950–1997. *Radiation Research*, 2003, 160(4):381–407.
- 106. Richardson D et al. Ionising radiation and leukaemia mortality among Japanese atomic bomb survivors. *Radiation Research*, 2009, 172(3):368–382.
- 107. Jacob P et al. Thyroid Cancer Risk in Areas of Ukraine and Belarus affected by the Chernobyl Accident. *Radiation Research*, 2006, 165(1):1–8.
- 108. Kopecky KJ et al. Childhood thyroid cancer, radiation dose from Chernobyl, and dose uncertainties in Bryansk Oblast, Russia: a population-based case-control study. *Radiation Research*, 2006, 166(2):367–374.
- 109. Gilbert ES et al. Thyroid cancer rates and <sup>131</sup>I doses from Nevada atmospheric nuclear bomb tests: an update. *Radiation Research*, 2010, 173(5):659–664.
- 110. Gilbert ES et al. Lung cancer in Mayak workers. *Radiation Research*, 2004,162(5): 505–516.
- 111. Koizumi A et al. Preliminary assessment of ecological exposure of adult residents in Fukushima Prefecture to radioactive cesium through ingestion and inhalation. *Environmental Health and Preventive Medicine*, 2012, 17(4):292–298.
- 112. Monzen S et al. Individual radiation exposure dose due to support activities at safe shelters in Fukushima prefecture. *Public Library of Science*, 2011, 6(11):1–4.
- 113. Takahara et al. Assessment of doses from external exposure in contaminated areas resulting from the Fukushima Daiichi Nuclear Power Plant accident. *Progress in Nuclear Science and Technology*, 2012,3:25-29.
- 114. Kamada N et al. Radiation doses among residents living 37 km northwest of the Fukushima Daiichi Nuclear Power Plant. *Journal of Environmental Radioactivity*. 2012, 110:84–89.
- 115. Tsubokura M et al. Internal radiation exposure after the Fukushima nuclear power plant disaster. *Journal of the American Medical Association*, 2012, 308(7):669–670.
- 116. Anzai K et al. The Fukushima Nuclear Power Plant accident and exposures in the environment. *The Environmentalist*, 2012, 32(2):136–143.
- 117. Website of the Fukushima Prefecture (<a href="http://www.cms.pref.fukushima.jp/pcp\_portal/">http://www.cms.pref.fukushima.jp/pcp\_portal/</a> PortalServlet?DISPLAY\_ID=U000004&CONTENTS\_ID-24809, accessed 21 November 2012).
- 118. Nagataki S.Thyroid Consequences of the Fukushima Nuclear Reactor Accident. *Eur Thyroid J*, 2012,1:148–158.
- 119. Walsh L and Schneider U. A method for determining weights for excess relative risk and excess absolute risk when applied in the calculation of lifetime risk of cancer from radiation exposure. *Radiation and Environmental Biophysics*, 2012.
- 120. Bhatti P et al. Risk of second primary thyroid cancer after radiotherapy for a childhood cancer in a large cohort study: an update from the childhood cancer survivor study. *Radiation Research*, 2010,174(6):741–752.

- 121. Radiation protection and safety of radiation sources: international basic safety standards (BSS). IAEA safety standards series, Interim edition. Vienna, International Atomic Energy Agency, 2011 (http://www-pub.iaea.org/MTCD/publications/PDF/p1531interim\_web.pdf, accessed 16 November 2012).
- 122. Doll R, Wakeford R. Risk of childhood cancer from fetal irradiation. British Journal of Radiology, 1997, 70:130-139.
- 123. Boice JD Jr, Miller RW. Childhood and adult cancer after intrauterine exposure to ionizing radiation. Teratology, 1999, 59(4):227-233.
- 124. Hatch M et al. A screening study of thyroid cancer and other thyroid diseases among individuals exposed in utero to iodine-131 from Chernobyl fallout. The Journal of Clinical Endocrinology and Metabolism, 2009, 94(3):889-906.
- 125. Imaizumi M et al. Thyroid diseases in atomic bomb survivors exposed in utero. The Journal of Clinical Endocrinology and Metabolism, 2008, 93 (5):1641–1648.
- 126. Shakhtarin VV et al. lodine deficiency, radiation dose, and the risk of thyroid cancer among children and adolescents in the Bryansk region of Russia following the Chernobyl power plant accident. International Journal of Epidemiology, 2003, 32(4):584-591.
- 127. Zablotska LB et al. Thyroid cancer risk in Belarus among children and adolescents exposed to radioiodine after the Chornobyl accident. British Journal of Cancer, 2011,104(1):181-187.
- 128. Zava TT and Zava DT. Assessment of Japanese iodine intake based on seaweed consumption in Japan: A literature-based analysis. Thyroid Research, 2011, 4:14 (http://www.thyroidresearchjournal.com/content/4/1/14, accessed 21 November 2012).
- 129. Suzuki M, Tamura T. Iodine intake of Japanese male university students: urinary iodine excretion of sedentary and physically active students and sweat iodine excretion during exercise. Journal of Nutritional Science and Vitaminology, 1985, 31(4):409-415.
- 130. Miyakawa T et al. Seaweed consumption and the risk of thyroid cancer in women: the Japan Public Health Center-based prospective study. European Journal of Cancer Prevention, 2012, 21(3):254-260.
- 131. Nauman J et al. lodide prophylaxis in Poland after the Chernobyl reactor accident: benefits and risks. The American Journal of Medicine, 1993, 94(5):524-532.
- 132. Spallek L et al. Adverse effects of iodine thyroid blocking: a systematic review. Radiation Protection Dosimetry, 2011, 150(3):267-277.
- 133. Coleman CN et al. Commentary on the combined disaster in Japan. Radiation Research, 2012, 177(1):15-17.
- 134. The Great East Japan Earthquake. A story of a devastating natural disaster, a tale of human compassion. Manila, World Health Organization Regional Office for the Western Pacific, 2012 (http://www.wpro.who.int/publications/9789290615682/en/index.html, accessed 16 November 2012).
- 135. Constitution of the World Health Organization. Geneva, World Health Organization, (http:// www.who.int/governance/eb/constitution/en/, accessed 21 November 2012).
- 136. Carr Z, Li C. Proceedings of the 13th coordination and planning meeting of the WHO-REM-PAN: radiation emergency medical preparedness and assistance network, Nagazaki, Japan, 16-18 February 2011. Radiation Protection Dosimetry, 2012, 151(4):605-606.
- 137. Requirements GS–R2 Preparedness and Response for a Nuclear or Radiological Emergency. Jointly sponsored by FAO, IAEA, ILO, OECD/NEA, PAHO, OCHA, WHO. Vienna, International Atomic Energy Agency, 2002.
- 138. Aumonier S and Morrey M. Non-radiological risks of evacuation. Journal of Radiological Protection, 1990,10(4):287-290.

- 139. Application of the commission's recommendations for the protection of people in emergency exposure situations. Ottawa, International Commission on Radiological Protection, 2009 (Annals of the ICRP, 109(39):1).
- 140. Notice No. 0315 Articles 1 of the Department of Food Safety. Japan, Website of the Ministry of Health, Labour and Welfare, 2012 (<a href="http://www.mhlw.go.jp/english/topics/2011eq/index.html">http://www.mhlw.go.jp/english/topics/2011eq/index.html</a>, accessed 21 November 2012).
- 141. Rojas-Palma C et al. Triage, monitoring and treatment of people exposed to ionizing radiation following a malevolent act. *TMT Handbook*, 2009 (<a href="http://www.tmthandbook.org">http://www.tmthandbook.org</a>, accessed 21 November 2012).
- 142. Jacob P et al. Thyroid cancer among Ukrainians and Belarusians who were children or adolescents at the time of the Chernobyl accident. *Journal of Radiological Protection*, 2006, 26(1):51–67.
- 143. Likhtarov I et al. Post–Chernobyl thyroid cancers in Ukraine, Report 2: Risk analysis. *Radiation Research*, 2006, 166(2):375–386.
- 144. Sources and effects of ionizing radiation. UNSCEAR 1993 report to the General Assembly. Vienna, United Nations Scientific Committee on the effect of Atomic Radiation, 1993 (<a href="http://www.unscear.org/unscear/en/publications/1993.html">http://www.unscear.org/unscear/en/publications/1993.html</a>, accessed 21 November 2012)
- 145. Pérez M, Lau L, WHO workshop on radiation risk assessment in paediatric health care: summary and recommendations. *Journal of Radiological Protection*, 2010, 30(1):105.
- 146. Pearce et al. Radiation exposure from CT scans in childhood and subsequent risk of leukaemia and brain tumours: a retrospective cohort study. *Lancet*, 2012, 380(9840):499–505.
- 147. Yasumura S et al. Study protocol for the Fukushima health management survey. *Journal of Epidemiology*, 2012, 22(5):375–383.
- 148. Survey Fukushima Medical University 2012(<a href="http://frh.fukushima-mimamori.jp/results/20120911.html">http://frh.fukushima-mimamori.jp/results/20120911.html</a>, accessed 21 November 2012).
- 149. Chernobyl's legacy: health, environmental and socio-economic impacts: Chernobyl Forum. Vienna, International Atomic Energy Agency, 2006.
- 150. Van Deventer E et al. WHO's public health agenda in response to the Fukushima Daiichi nuclear accident. *The Journal of Radiological Protection*, 2012, 32(1):N119–N22 (<a href="http://internation.org/0952-4746/32/1/N119/">http://internation.org/0952-4746/32/1/N119/</a>, accessed 20 November 2012).
- 151. Berger ME, Sadoff RL. Psychological support of radiation accidents: patients, families and staff. The medical basis for radiation accident preparedness: the clinical care of victims. New York, *Parthenon Publishers*, 2002.
- 152. Bromet EJ et al. Long-term mental health consequences of the accident at Three Mile Island. *International Journal of Mental Health*, 1990, 19(2):48–60.
- 153. Loganovsky K et al. The mental health of clean-up workers 18 years after the Chernobyl accident. *Psychological Medicine*, 2008, 38(4):481–488.
- 154. Bromet EJ, Havenaar JM. Psychological and perceived health effects of the Chernobyl disaster: a 20-year review. *Health Physics*, 2007, 93(5):516–521.
- 155. Helou S, Costa Neto SB, Césio-137, consequências psicossociais do acidente de Goiânia [*Psychosocial consequences of the Goiania accident*]. Brazil, Federal University of Goiás,1995.
- 156. *Number of evacuees in the country*. Japan, Reconstruction Agency, Japanese Government, 2012. (http://www.reconstruction.go.jp/topics/120912\_hinansya.pdf).
- 157. Generic procedures for medical response during a nuclear or radiological emergency. EPR—MEDICAL 2005. Vienna, International Atomic Energy Agency, 2005 (http://www-pub.

- iaea.org/MTCD/publications/PDF/EPR-MEDICAL-2005\_web.pdf, accessed 16 November 2012).
- 158. Mental health in emergencies. Mental and social aspects of health of populations exposed to extreme stressors. Document WHO/MSD/MER/03.01. Geneva, World Health Organization, 2003 (http://www.who.int/mental\_health/media/en/640.pdf, accessed 16 November 2012).
- 159. Bromet E. Lessons learned from radiation disasters. World Psychiatry, 2011, 10(2):83-84.
- 160. Mole RH. Childhood cancer after prenatal exposure to diagnostic x-ray examinations in Britain. British Journal of Cancer, 1990, 62(1):152-168.
- 161. Harrison JD, Muirhead CR. Quantitative comparisons of cancer induction in humans by internally deposited radionuclides and external radiation. International Journal of Radiation Biology, 2003, 79(1):1-13.
- 162. Ron E. Cancer risks from medical radiation. Health Physics, 2003, 85(1):47-59.
- 163. Berrington A et al. 100 years of observations on British radiologists. British Journal of Radiology, 2001, 74(882):507-519.
- 164. Shilnikova NS et al. Cancer mortality risk among workers at the Mayak nuclear complex. Radiation Research, 2003, 159(6):787-798.
- 165. Cardis E et al. Risk of cancer after low doses of ionizing radiation: retrospective cohort study in 15 countries. BMJ, 2005, 331(7508):77-80.
- 166. Akiba S, Mizuno S. The third analysis of cancer mortality among Japanese nuclear workers, 1991-2002: estimation of excess relative risk per radiation dose. Journal of Radiological Protection, 2012, 32(1):73-83.
- 167. Bauer S et al. Radiation exposure due to local fallout from Soviet atmospheric nuclear weapons testing in Kazakhstan: solid cancer mortality in the Semipalatinsk historical cohort, 1960–1999. Radiation Research, 2005, 164(4):409–419.
- 168. Nair RR et al. Background radiation and cancer incidence in Kerala, India-Karanagappally cohort study. Health Physics, 2009, 96(1):55-66.
- 169. Tao Z et al. Cancer mortality in the high background radiation areas of Yangjiang, China during the period between 1979 and 1995. Radiation Research, 2000, (Suppl. 41):31-41.
- 170. Akiba S et al. Child cancer risk in high-background radiation areas. International Congress Series, 2002, 1225:283-287.
- 171. Ghiassi-Nejad M et al. Very high background radiation areas of Ramsar, Iran: preliminary biological studies. Health Physics, 2002, 82(1):87-93.
- 172. Hendry JH et al. Human exposure to high natural background radiation: what can it teach us about radiation risks? Journal of Radiological Protection, 2009, 29(2A):A29-A42.
- 173. Wakeford R et al. The proportion of childhood leukaemia incidence in Great Britain that may be caused by natural background ionizing radiation. Leukemia, 2009, 23(4):770–776.
- 174. Kendall GM. A record-based case-control study of natural background radiation and the incidence of childhood leukaemia and other cancers in Great Britain during 1980-2006. Leukemia, 2013, 27(1):3-9.
- 175. Portal site of official statistics of Japan. Japan, 2012 (http://www.e-stat.go.jp/SG1/estat/ ListE.do?lid=000001082327, accessed 25 November 2012).
- 176. Iwasaki T et al. Second analysis of mortality of nuclear industry workers in Japan, 1986-1997. Radiation Research, 2003, 159(2):228-238.
- 177. Cardis E et al. Risk of thyroid cancer after exposure to 131 in childhood. Journal of the National Cancer Institute, 2005, 97:724-732.

- 178. Walsh L et al. Radiation risk modeling of the thyroid cancer with special emphasis on the Chernobyl epidemiological data. *Radiation Research*, 2009, 172(4):509–518.
- 179. Heiervang KS et al. Effect of low dose ionizing radiation exposure in utero on cognitive function in adolescence. *Scandinavian Journal of Psychology*, 2010, 51(3):210–215.
- 180. Igumnov S, Drozdovitch V. The intellectual development, mental and behavioural disorders in children from Belarus exposed in utero following the Chernobyl accident. *European Psychiatry*, 2000, 15(4):244–253.
- 181. Igumnov SA et al. Intellectual development of the persons exposed in utero: 10-years follow-up investigation. *Meditsinskaya Radiologiva*, 2004, 49(4):29–35.
- 182. Kolominsky YS et al. The psychological development of children from Belarus exposed in the prenatal period to radiation from the Chernobyl atomic power plant. *Journal of Child Pyschology and Psychiatry and Allied Disciplines*, 1999, 40(2):299–305.
- 183. Kozlova IA et al. Psychological and psychiatric study of children living in Kaluga and Bryansk regions of Russia (aftermaths of the Chernobyl catastrophe). *Zhurnal Nevropatologii i Psikhiatrii Imeni S.S.Korsakova*, 1999, 95(1):70–74.
- 184. Loganovsky KN et al. Disrupted development of the dominant hemisphere following prenatal irradiation. *Journal of Neuropsychiatry and Clinical Neurosciences*. 2008, 20(3):274–291.
- 185. Nyagu AI et al. Psychophysiological after effects of prenatal irradiation. *International Journal of Psychophysiology*, 1998, 30(3):303–311.
- 186. Hall P et al. Effect of low doses of ionising radiation in infancy on cognitive function in adulthood: Swedish population based cohort study. *BMJ*, 2004, 328(7430):19.
- 187. Ron E et al. Mental function following scalp irradiation during childhood. *American Journal of Epidemiology*. 1982, 116(1):149–160.
- 188. Cousens Pet al. Cognitive effects of cranial irradiation in leukaemia: A survey and meta-analysis. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 1998, 29(6):839–852.
- 189. Fuss M et al. Full Scale IQ (FSIQ) changes in children treated with whole brain and partial brain irradiation: A review and analysis. *Strahlenther Onkol*, 2000, 176(12):573–581.
- 190. Grill J et al. Long-term intellectual outcome in children with posterior fossa tumors according to radiation doses and volumes. *International Journal of Radiation Oncology Biology Physics*, 1999,45(1):137–145.
- 191. Kramer JH et al. A prospective study of cognitive functioning following low-dose cranial radiation for bone marrow transplantation. *Pediatrics*, 1992, 90(31):447–450.
- 192. Meadows AT et al. Declines in IQ scores and cognitive dysfunctions in children with acute lymphocytic leukaemia treated with cranial irradiation. *Lancet*, 1981, 2(8254):1015–1018.
- 193. Vaño E et al. Radiation cataract risk in interventional cardiology personnel. *Radiation Research*, 2010, 174(4):490–495.
- 194. Ciraj-Bjelac O et al. Risk for radiation—induced cataract for staff in interventional cardiology: is there reason for concern?. *Catheter Cardiovasc Interventions*, 2010,76(6):826–834.
- 195. Mrena S et al. Lens opacities among physicians occupationally exposed to ionizing radiation: a pilot study in Finland. *Scandinavian Journal of Work, Environment & Health*, 2011,37(3):237–243.
- 196. Jacob S et al. Interventional cardiologists and risk of radiation-induced cataract: results of a French multicenter observational study. *International Journal of Cardiology*, 2012.
- 197. Worgul BV et al. Cataracts among Chernobyl clean-up workers: implications regarding permissible eye exposures. *Radiation Research*, 2007,167(2):233–243.

- 198. Hsieh WA et al. Lens opacities in young individuals long after exposure to protracted lowdose rate gamma radiation in 60 co-contaminated buildings in Taiwan. Radiation Research, 2010, 173(2):197-204.
- 199. Darby SC et al. Radiation-related heart disease: current knowledge and future prospects. International Journal of Radiation Oncology, Biology, Physics, 2010, 76(3):656–665.
- 200. McGale P, Darby SC. Low doses of ionizing radiation and circulatory diseases: a systematic review of the published epidemiological evidence. Radiation Research, 2005, 163(3):247-257.
- 201. Azizova TV et al. Ischemic heart diseases in nuclear workers first employed at the Mayak PA in 1948-1972. Health Physics, 2012, 103(1):3-14.
- 202. McGeoghegan D et al. The non-cancer mortality experience of male workers at British Nuclear Fuels plc, 1946-2005. International Journal of Epidemiology, 2008, 37(3):506-518.
- 203. Vrijheid M et al. Mortality from diseases other than cancer following low doses of ionizing radiation: results from the 15-Country Study of nuclear industry workers. International Journal of Epidemiology, 2007, 36(5):1126-1135.
- 204. Muirhead CR et al. Mortality and cancer incidence following occupational radiation exposure: third analysis of the national registry for radiation workers. British Journal of Cancer, 2009; 100(1):206–212.
- 205. Kreuzer VK et al. Mortality from cardiovascular diseases in the German uranium miners cohort study, 1946–1998. Radiation and Environmental Biophysics, 2006, 45(3):159–166.
- 206. Jacob P et al. Calculation of organ doses from environmental gamma rays using human phantoms and Monte-Carlo methods: part 2: radionuclides distributed in air or deposited on the ground. Munchen-Neuherberg: GSF-Forschungszentrum; 1990.
- 207. The ICRP database of dose coefficients: workers and members of the public. Ottawa, International Commission on Radiological Protection, 2001 (http://www.icrp.org/page.asp?id=145, accessed 21 January 2013).
- 208. UNSCEAR 2000 report to the General Assembly. Sources and Effects of Ionizing Radiation., Vol II Scientific Annex J: Exposures and effects of the Chernobyl accident, 2000.