

#### Appendix I. Data extraction: Articles included in the literature review

Author, (year)	Country, Journal	Setting, sample	Aims of the study	Study approach, design	Data collection, data analysis
Sandman et al. (2008) <sup>1</sup>	Sweden Nursing Ethics	Hospital, Patients (7) and Healthcare practitioners	Analyze ethical conflicts during nutritional refuse	Qualitative case study, an overview of the literature	Case vignettes, normative analysis
Wilmot et al. (2002) <sup>2</sup>	England Nursing Ethics	Hospital, Nurses and Healthcare assistants (12)	Explore the ethical principles of dementia	Qualitative, explorative	Focus group, grounded theory
Reitinger and Heimerl (2014) <sup>3</sup>	Austria International Journal of Older People Nursing	Nursing homes (3), Healthcare practitioners (35)	Highlight the ethical and gender issues, during elderly palliative care	Qualitative, participatory action research	Group discussion, qualitative questionnaire, thematic and narrative analysis
Rodriguez and Young (2006) <sup>4</sup>	USA Journal of Medical Ethics	Medical center, Elderly people (30) Healthcare providers (30)	Explore the perception of futile treatment and end of life decision-making	A quantitative cross-sectional study	A semi-structured interview, grounded theory analysis
Teeri et al. (2006) <sup>5</sup>	Finland Nursing Ethics	Long-term care institution, Elderly people (10) Relatives (17), Nurses (9)	Explore ethical problems during long-term care for elderly people	Qualitative explorative	Opened interviews, essay, qualitative content analysis
Teeri et al. (2008) <sup>6</sup>	Finland Nursing Ethics	Long-term care (4) institution, Nurses (222) and Relatives (213)	Describe the maintenance of patient's integrity in long-term care	Quantitative, descriptive-comparative	Questionnaire (Likert-type scale), Cronbach's alpha (reliability), descriptive statistics

Bolmsjö et al. (2006) <sup>7</sup>	Sweden Nursing Ethics	A nursing home, Elderly people (12) Healthcare practitioners	Describe everyday ethical issues in the care of elderly people	Qualitative, nonparticipant observational	Observation, teleological decision-making model, content analysis
Tuckett (2006) <sup>8</sup>	Australia International Journal of Nursing Practice	Nursing home, Elderly people, Nurses, Healthcare Assistants	Increasing knowledge of paternalism, autonomy and best interest	Literature review, review of qualitative studies	Textual data, concept analysis

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Hick (2000) <sup>9</sup>	USA Nursing Ethics	Nursing home, nurses	Presenting one pain management plan	Literature review	Textual data, concept analysis
Baldwin et al. (2002) <sup>10</sup>	United Kingdom International Journal of Geriatric Psychiatry	xxx	Bibliometric analysis of keywords in the literature on ethics and dementia	Literature review	Textual data, concept analysis
Eggenberger and Nelms (2004) <sup>11</sup>	USA Journal of Clinical Nursing	Nursing home, elderly person (1) and relatives (2), doctor (1), nurse (1)	Describe the role of beneficence and autonomy in artificial hydration and nutrition decision making in the USA	Qualitative Case study	Hypothetical family scenario

Chernoff (2006) <sup>12</sup>	USA  Nutrition in Clinical Practice	Nursing home	Describe ethical and legal issues during the tube feeding dementia patients in the USA	Theoretical paper	Textual data, normative analysis
Cheung And Yam (2005) <sup>13</sup>	Kingdom of Saudi Arabia  Journal of Clinical Nursing	Hospital, elderly persons (1), relatives (1), nurses, other healthcare providers	Examine the relationship between patient autonomy and physical restraint	Qualitative, case study	Family Scenarios, content analysis
Clarfield et al. (2003) <sup>14</sup>	Israel  Journal of American Geriatric Society	Hospital (3)elderly people (3), relatives, Healthcare practitioners	Compare the opinions of three religions, related to end of life decision making	Qualitative, comparative case study	case vignette, normative analysis
Blass et al. (2006) <sup>15</sup>	USA  Journal of American Geriatric Society	Elderly homes, elderly people, nurses	Analyzing ethical issues during the psychiatric treatment of the homebound elderly patients	Qualitative case study	Case vignettes, normative analysis
Cubit (2010) <sup>16</sup>	Australia  Contemporary Nurse	Long-term care institutions, elderly people (8), nurses, other healthcare practitioners	Describe the obtaining of informed consent for elderly research participation	Mixed, , survey, structured observation	Interview, group discussion, clinical audit, observation, participant observation

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de Casterle et al. (2014) <sup>17</sup>	Belgium  Nursing Ethics	Hospital (12)  Nurses (21)	Explore the influences on nurses' decision-making during physical restraint of the elderly people in Belgium	Qualitative descriptive	Interview, (QUAGOL) Qualitative Analysis Guide of Leuven 27, grounded theory
Elliot et al. (2009) <sup>18</sup>	USA  Scandinavian Journal of Caring Sciences	Nursing home (8)  Family members (39)	Describe the ethical thinking of the relatives at the end of life decision-making in the USA	Qualitative research	Focus group, qualitative thematic analysis
Enes and de Vries (2004) <sup>19</sup>	UK  Nursing Ethics	Hospitals (3), care homes (10)  Nurses (153)	Examine the ethical issues experienced by nurses	Survey study	The semi-structured and opened questionnaire, descriptive quantitative analysis, content analysis
Gordon (2002) <sup>20</sup>	Canada  Drug Aging	Hospital, elderly people (3), relatives (4), doctors (3)	Overview the ethical issues at the end of life treatment, in Canada	Qualitative, descriptive case study	Case vignette, normative analysis
Jonasson and Berterö (2012) <sup>21</sup>	Sweden  International Journal of Older People Nursing	Hospital (1)  Elderly patients (22)	Describe the ethical values experienced by the elderly people in interaction with nurses in Sweden	qualitative, observational study, Grounded theory	Follow-up interviews, observation, constant comparative analysis
Jonasson et al. (2011) <sup>22</sup>	Sweden  International Journal of Qualitative studies Health Well-being	Clinic (1)  Nurses (20)	Describe the ethical values experienced by nurses in interaction with the elderly in Sweden	A qualitative approach, Grounded theory	Follow-up interviews, observation, constant comparative analysis

Jonasson et al. (2010) <sup>23</sup>	Sweden  International Journal of Nursing Practice	Clinic (1)  Family members, (next of kin)14	Identify and describe the governing ethical values that next of kin experience in interaction  with nurses at a geriatric clinic Sweden	A qualitative approach, Grounded theory method	Follow-up interviews, observation, constant comparative analysis
Kadioglu et al. (2013) <sup>24</sup>	Turkey,  Geriatrics Gerontology International	Primary health care centers Physicians (50) Nurses (36)	Determine the frequency rate of geriatric ethical problems	A quantitative, survey study	Questionnaire, descriptive statistics, and analysis of variance (ANOVA), factor analysis

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Leino-Kilpi et al. (2003) <sup>25</sup>	Finland, Spain, UK Greece, Germany,  Nursing Ethics	Hospitals, nursing homes, senior centers  Elderly people (573) Nurses (887)	Explore nurses and patients' perception of autonomy, privacy, and informed consent	The quantitative survey, cross-sectional exploratory and correlational	Questionnaires, statistical analysis
Leino-Kilpi et al. (2003) <sup>26</sup>	Finland, Spain, UK Greece, Germany,  Nursing Ethics	Hospitals, nursing homes, senior centers  Elderly people (573) Nurses (887)	Compare nurses' with/to patients' perception of autonomy, privacy, and informed consent	Quantitative, comparative, cross-sectional exploratory and correlational design	Questionnaires, statistical analysis, T-test for the comparison
Scott et al. (2003) <sup>27</sup>	Finland, Spain, UK Greece, Germany,	Hospitals, nursing homes, senior centers	Compare nurses' with/to patients' perception of autonomy	Quantitative, comparative, cross-	Questionnaires, , statistical analysis, T-test for the comparison

	Nursing Ethics	Elderly people (573) Nurses (887)		sectional exploratory and correlational design	
Schopp et al. (2003) <sup>28</sup>	Finland, Spain, UK Greece, Germany,  Nursing Ethics	Hospitals, nursing homes, senior centers  Elderly people (573) Nurses (887)	Compare nurses' with/to patients' perception of privacy	Quantitative, comparative, cross- sectional exploratory and correlational design	Questionnaires, statistical analysis, T-test for the comparison
Schopp et al. (2003) <sup>29</sup>	Finland, Spain, UK Greece, Germany,  Nursing Ethics	Hospitals, nursing homes, senior centers  Elderly people (573) Nurses (887)	Compare nurses' with/to patients' perception of informed consent	Quantitative, comparative, cross- sectional exploratory and correlational design	Questionnaires, statistical analysis, T-test for the comparison
Lejman et al. (2013) <sup>30</sup>	Sweden  Nursing Ethics	Nursing homes (10)  Nurses (10)	Describe how nurses act ethically and legally during coercive treatment of the elderly people in Sweden	Qualitative, descriptive	Semi-structured interviews, content analysis (manifest and latent)
van Thiel and van Delden (2001) <sup>31</sup>	Netherlands  Nursing ethics	Nursing homes (50)  Physicians (31) Nurses (94)	Explore the importance of the respect for patient's autonomy for the caregivers	Quantitative empirical	Case vignette, questionnaire, narrative analysis, descriptive analysis

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Schaffer (2007) <sup>32</sup>	Norway  Nursing Ethics	Hospitals, nursing homes, hospices, day centers or homes, organizations  Nurses (17) Physicians (4) social worker (1) ministers (3) elders (6) family members (5)	Explore the ethical problems experienced by healthcare professionals, elders and family at the end of life decision-making in Norway	Qualitative study	Semi-structured interviews, ethical inquiry, qualitative content analyses
Suhonen et al. (2010) <sup>33</sup>	Finland  Nursing Ethics	xxx	Analyze the empirical studies which focus on ethics in nursing care for elderly people	Literature review	Review of literature, critical analysis
Randers and Mattiasson (2004) <sup>34</sup>	Sweden  Journal of Advanced Nursing	Rehabilitation units  Nurses (7) assistant nurses (23)	Understand the relation between autonomy and integrity in patients- caregivers interaction	Qualitative, participatory observational	Participatory observation, deductive, theoretical analysis, content analysis
Råholm (2012) <sup>35</sup>	Norway  International Journal for Human Caring	Nursing home (1)  Nurses (7)	Understand the ethics of presence when bathing an elderly patient	Qualitative, descriptive, explorative	Focus group interviews Phenomenological-hermeneutic analysis
Martin and Bush (2008) <sup>36</sup>	USA  Neuro Rehabilitation	Home  Elderly person (1), relatives (1), doctors	Explore the ethical consideration in geriatric neuropsychology	Qualitative case study, explorative	Case vignette, decision-making model
Tuckett (2007) <sup>37</sup>	Australia  International Nursing Review	Nursing homes  Nurses  Elderly people	Describe the literature, work practices and the culture of the nursing home	A literature review of qualitative studies	Review

Stinson et al. (2004) <sup>38</sup>	USA  Dimensions of Critical Care Nursing	Critical care unit  Nurse  Elderly patient (1), relatives (3)	Explore legal issues, discuss ethical guidelines, identify techniques for conflicts resolution	Case study, explorative	Case vignette, normative analysis
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Smith (2005) <sup>39</sup>	USA  Journal of Gerontological Nursing	Nursing home (1), senior community center (1)  Elderly people (10)	Explore ethical issues in institutions with elderly people	Qualitative, descriptive,	Interviews, content analysis, comparative analysis, normative analysis, review of literature
Bolmsjö et al. (2006) <sup>40</sup>	Sweden  Nursing Ethics	Nursing homes (1)  Elderly people (12)  nurses	Describe and interpret the general ethical milieu in a  nursing home for elderly people and to use a decision- making model to analyze  specific ethical situations within this milieu.	Qualitative, Observational study	Sandman teleological decision-making model, phenomenological, content analysis



Bužgová and Ivanová (2011) <sup>41</sup>	Czech Republic Nursing Ethics	Nursing homes (12), elderly people (488) and health caregivers (454)	Describe issues of elderly abuse in institutional care	Quantitative survey, research derived from qualitative phenomenological	Structured interviews, questionnaires Descriptive statistics comparative, statistical, chi-squared statistic, Fisher's test
Piers et al. (2010) <sup>42</sup>	21 European countries  Zeitschrift für Gerontologie und Geriatric	Hospitals, hospices, home care, long-term care institutions  Physicians (19)	Map the palliative care structures for geriatric patients, policies, legislation, associations in geriatric palliative medicine in different countries of Europe	quantitative survey, descriptive comparative research	Questionnaire, clinical case vignette
Bond and Lowton (2011) <sup>43</sup>	England  Age and Ageing	Clinics  Physicians (10)	Elicit geriatricians' views on advance decisions and their use in decision-making	Qualitative approach, case study	Semi-structured interviews, case vignettes, grounded theory analysis, inductive analysis
Sammet (2007) <sup>44</sup>	Germany  Journal of Medical Ethics	Nursing homes  Nurses, elderly people (2)	Describe the judgments of German courts on the care of the elderly	Qualitative case study discussion	Vignette cases, normative analysis
Hwang and Lin (2003) <sup>45</sup>	China  Journal of Nursing Research	Long-term care institutions (26), community centers (12)  Elderly people (324)	Investigate the perceived enactment of autonomy and related factors among elderlies	Quantitative, cross- sectional study	Face to face questionnaire, Cronbach's alpha, descriptive analysis, regression analysis

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Matsui and Capezuti (2008) <sup>46</sup>	USA  Geriatric Nursing	Senior centers (6)  Elderly people (120)	Investigate the perceived autonomy and self-care resources	Quantitative descriptive, correlation study	Questionnaires, Cronbach` alpha coefficient, descriptive and correlation statistics
Scott et al. (2003) <sup>47</sup>	UK  British Journal of Nursing	Nursing home (7), long-term care institutions (15)  Nurses (155) elderly people (101)	Examine the ethical issues in the care of elderly patients in long-term care in (Finland, Spain, Greece, Germany, UK)	Quantitative survey comparative study	Review of literature, Interviews, questionnaires, chi-squared test, Spearman test, Cronbach alpha coefficient
Zimring (2006) <sup>48</sup>	USA  Journal of American Medical Directors Association	elderly people (1), relatives (3)	Explore the current legal framework for health care decision making in the US	Qualitative explorative case study	Case vignettes, normative analysis
Mayo and Wallhagen (2009) <sup>49</sup>	USA  Research in Gerontological Nursing	xxx	Consider informed consent and decision-making competence in older adults with cognitive impairment	Review of literature	Review
McBrien (2007) <sup>50</sup>	Ireland  Accident and Emergency Nursing	Hospital  Elderly people (1), relatives (1), nurses	Improve knowledge of nurses on ethical and legal issues when exercising restraint, in Ireland	Qualitative case study, theoretical overview	case vignette, critical analyses, concept analyses