End-of-Life and Hospice Issues in Korean Aging Society*

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This paper deals with legal and institutional aspects of end-of-life and hospice issues in Korea. With the high speed of aging in Korean society we face end-of-life issues and policies at the terminal stage. Policies on life-sustaining treatment decisions to death in later life were developed from the 2000’s and legislated into the Cancer Control Act in 2010. It was not until February 2016 that the Cancer Control Act was a legal provision of hospice and palliative care even for terminal cancer patients. The Cancer Control Act made an impact on the institutional and financial situations of hospice and palliative care. The first impact is a medical care-centered care flow and a transfer model for hospice and palliative care. Public policies focus on hospice services inside general hospitals, so that independent hospice centers or community services are underdeveloped. The second impact is a patient-initiated decision model into hospice and palliative care. Physicians had no legal obligation to explain to patients their terminal situation and prognosis and could inform them only when they choose. Therefore, it was not until July 2015 that hospice and palliative care was covered by the public health insurance system.

Keywords: hospice and palliative care, end of life, aging society. hospice center, life-sustaining treatment decision

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Introduction: Korean Aging Society with a High Speed of Aging

Korean society is quickly becoming a super-aged society due to a higher speed of aging. The population of older adults is rapidly growing. Population of 65+ yet remains 13% of entire population in 2015, but it will grow to 28% in 2035 and to even more than 38% in 2055. In a vortex of these rapid aging, not only the number of young elderly (65-79) but also of older elderly (80+) is growing fast among older adults. Older adults of 70+ are estimated to increase from 8% in 2015 to 20% in 2035, and even to 31% in 2055, while older elderly of more than 80 years old are estimated to increase from less than 3% in 2015 to 16% in 2055.

This growing number of older adults causes a radically changing national population structure with lowest fertility rate. In <Figure 1> we can see a flood of the largest age group moving from 40's and 50's in 2015 to 50's and 60's in 2025 and even to 60's and 70's in 2035.

It is emphasized that a high speed of aging in the national population structure requires a systematic need for end-of-life policies. Health statistics in 2014 shows us a rapidly growing mortality at an older age and more chronic diseases such as malignant neoplasm and circulatory organ system diseases especially at older age,¹ which amount to as much as 47% among causes of death. We can, however, see a greater variety of chronic diseases as causes of death at older ages of 80+.

In a rush to becoming an aged and super-aged society, Korean society is facing various end-of-life and related later-life issues, in which we can see a

| TABLE 1 | CHANGING SUBGROUPS OF OLDER ADULTS IN 2015-2055 |
|---------|-----------------------------------------------|
|         | 2015  | 2025  | 2035  | 2045  | 2055  |
| 65+     | 13.08%| 19.87%| 28.42%| 35.06%| 38.40%|
| 70+     | 8.89% | 12.75%| 20.55%| 27.55%| 31.48%|
| 75+     | 5.49% | 7.90% | 12.99%| 19.53%| 23.64%|
| 80+     | 2.78% | 4.46% | 6.76% | 12.14%| 16.15%|

Source.—National Statistics of Population Change in the Future (2015)

¹ Growing mortality from cardiovascular diseases was considered as a characteristic of the Korean health situation among OECD countries (OECD 2015).
basic limit of cure-oriented health policies. Aging can be considered as the natural lifespan from various chronic diseases and disorders\(^2\) to death.

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\(^2\) Chronic diseases are defined as diseases which are incurable within 3 months by the US National Committee on Chronic Illness. They are called “Non-Communicable Diseases” by the WHO, and “Lifestyle Diseases” in Japan.
Modern medicine has no almighty power in preventing and curing a growing number of various chronic diseases approaching death itself in later life. Ethically following natural process from chronic diseases to death in later life is a core of end-of-life issues (President’s Council on Bioethics 2005; Center for Bioethics/UM 2005). In public policies for facilitating care flow institutionally from comprehensive care of chronic diseases at old age to well-dying, a hot issue is now the underdevelopment of hospice and palliative care, especially for elderly Koreans, in comparison not only with American and European countries, but also with East Asian countries such as Japan and Taiwan.

Palliative care means a person-centered care approach to withhold unnecessary aggressive medical treatment and to alleviate the pain and suffering with social, psychological and spiritual care. Hospice means more than palliative care; it’s an integrative service approach to promote a patient’s and his family’s quality of life, not only with palliative medical care but also with social, psychological and spiritual care. Palliative care is, naturally, a person-centered approach to be implemented not only near the end of life, but also in the entire medical process with active cures. This practice of palliative care is not only a care for the patient's quality of life; it is a paradigm shift that a goal of medical practices is not in curing a patient’s diseases, but in promoting patient’s quality of life (Callahan 2000). Most medical physicians consider it as the most pivotal goal of their practices to cure diseases and to help to prolong the lifespan of patients in the hospital setting. The problem related to a paradigm shift into hospice and palliative care comes to the fore at the point when a physician's practices offer no more positive effects against a patient's diseases (Council on Ethical and Judicial Affairs 1999). Most medical experts think that all possible tools and practices should be used even for naturally dying old men. From that viewpoint, more than 73% of Korean people meet their death at hospital, although only 16% want to do so.4

If life-sustaining tools such as a resuscitator or a ventilator would offer a patient no more meaningful life and only prolonging lifespan of pain, we could cast doubt on the legitimacy of these practices. At any point of curing diseases, we have a mind that death is a natural process of patients. The

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3 The World Health Assembly proposed a sentence of strengthening of palliative care as a component of integrated treatment within the continuum of care on 23 January 2014.

4 According to a Survey of Health Care by National Health Insurance Service Agency in August 2014, 57.2% of 1,600 survey respondents want to die at home, while only 16.3% want to die at a hospital.
WHO recommended that palliative care should be expanded from care near the end-of-life to all medical processes together with active treatment (WHO 2002). Hospice and palliative care regains new meaning in the medical setting especially because of changing medical attention from the patient's disease to the patient himself and even his quality of life. At his end of life there is a need to avoid more unnecessary treatment and a need for alternative cares such as relaxation and control of pain and symptoms, and socio-psychological and spiritual care. Therefore, “hospice” means a philosophically new, person-centered, so-called quality-of-life centered approach rather than disease-centered medical approach, and not only a medical but an integrative approach of medical and social care.

Hospice Services in History and Revision of Cancer Control Act

Hospice has been already internationally popular since its establishment by the Little Sisters of Mary (Piccola Compagnia di Maria) in England in 1867. In the US there are more than 5,500 hospice facilities, and 44.6% of total deaths were reported in these facilities.

Like this international context, the Little Sisters of Mary had a pivotal role in beginning hospice service for dying persons in Korea. The Korean Catholic church invited the Austrian Little Sisters and established Calvary Hospital as an independent hospice facility at 1965 in Gangwon province. Sisters offer hospice care services there, and additionally developed home-visit hospice care. It was, however, not until the late 1980’s that Korean people knew of hospice services other than the small Calvary Hospital. Evangelical groups played a role in offering hospice services in Seoul. In 1987, the nursing department at Yonsei University began home-visit hospice care services with the help of American missionary Marian Kingsley and developed a network of hospice facilities and experts in 1991. This group focused on hospice education for expanding human resources and services. These educational activities were up-graded and internationally certified; for example, the educational center of the Catholic Nursing School was recognized and developed into the Collaborating Center of Hospice and Palliative Care by the WHO. A Buddhist group was the last major religious group that began hospice services in 1995.

Based on charitable religious activities and the recommendation of the WHO, the Korean government started to work on legislation for hospice
services only in 2002. The Ministry of Public Health and Welfare had a plan for promoting hospice services as a comprehensive policy plan against elderly diseases and for health promotion. Public health policy focused on cancer as an exceptionally common cause of death in Korea.\(^5\) From 2003-5 it developed a pilot project of hospice services foremost for terminal cancer patients, and tried to legislate it in a revision of the Cancer Control Act. After the second pilot project from 2006-8, the Ministry developed a pilot project of financial support from National Health Insurance and finally made a revision to the Cancer Control Act in May 2010, in which hospice services could be used by the terminal cancer patients if they wanted it.

This revision of the Cancer Control Act is basically a legal and institutional breakthrough to open a nationwide “care flow” towards hospice and palliative care. But the Cancer Control Act is foremost a legal provision for cancer research, prevention and treatment, and, with its revision in 2010, of hospice the palliative care, particularly for terminal cancer patients. The revised Act, however, might demonstrate a tension between active cancer treatment and inserted palliative care from a perspective of legal orientation. In the hospital setting, most oncologists with more interest in cure basically have a conflict of interest with their patients who want hospice and palliative care for their quality of life. From this innate dilemma there is in the Act no concept of hospice, but only of palliative care in services and facilities for terminal cancer patients. Additionally, palliative care in the Act is only for terminal cancer patients particularly who want to use it (§20). This act specified no legal obligation of medical physicians to inform and to explain to patients their medically incurable situations with a prognosis of their diseases. It means no legal provision of informed consent for patients’ choice of palliative care. This act is only a declaration of governmental responsibility for providing terminal cancer patients hospice and palliative care different from normal treatment if they themselves want to do it. According to the Act, hospice and palliative care facilities could be recognized institutionally and financially by the government, but underdeveloped under little institutional and financial support.

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\(^5\) In OECD statistics of death causes in 2009, Korea is an exceptional country in which cardiovascular diseases were not higher, but cancer was higher among OECD countries (OECD 2015, p. 173)
Hospice Services for Terminal Cancer Patients with Little Institutional Support

Hospice and palliative service is legally permitted only for terminal cancer patients under the Cancer Control Act. They can choose and receive hospice and palliative care if they want it. According to this Act the government has provided institutional support for it, with official permission for palliative care units in general hospitals. Hospice and palliative care facilities are, however, institutionally underdeveloped; there was a slight increase to 1,009 beds in 60 facilities up until August 2015, but the increase almost stalled because of little financial support. Most hospice facilities are organized and operated by religious groups and public medical facilities in a charitable way: most all with donation and volunteers.

This result leads to a situation in which only 13.2% of total terminal cancer patients used hospice facilities in their end of life in 2014. This usage rate seems to be increasing in comparison with 9.1% in 2009, but yet it remains low.

This may be explained in the context of the special life culture of Koreans. Koreans have a long history of brutal experiences such as Japanese colonization and the civil war at the beginning of modern society. In those difficult situations Koreans kept up their relatively strong will for living. A survey result in <Table 4> clearly reveals a hidden self-deceptive desire of aged persons for life-sustaining treatment in response to their family’s cases more than “their own” cases.

That strong will for living seems to be reinforced by familial culture of filial piety (Hyo) in the setting for life-sustaining treatment decision. Life-

| TABLE 3 | Palliative Care Units for Terminally Ill Cancer Patients |
|----------|--------------------------------------------------------|
|          | No. of Facilities | 2014 | 2015 | No. of Beds | 2014 | 2015 | Average No. of Beds per facility |
|          |                  |      |      |            |      |      |                               |
| Higher General Hospital | 13 | 14 | 182 | 209 | 14 | 15 |
| General Hospital | 28 | 31 | 441 | 504 | 16 | 16 |
| Hospital | 5 | 6 | 132 | 169 | 26 | 28 |
| Clinic | 8 | 9 | 128 | 127 | 16 | 14 |
| Total | 54 | 60 | 883 | 1,009 | - | - |
TABLE 4
PUBLIC OPINION ABOUT WITHHOLDING LIFE-SUSTAINING TREATMENT

|                      | If you were terminally ill | If your family were terminally ill |
|----------------------|----------------------------|----------------------------------|
| Aged Persons         | 73.53%                     | 52.94%                           |
| Medical Experts      | 80.99%                     | 91.73%                           |
| Care Workers         | 76.47%                     | 82.35%                           |

Source.—Suh et al. 2014: p. 76-8

Sustaining treatment in Korea is decided by family members’ common opinions, therefore often finally decided by one member with a mind of supporting his parents’ life sustaining treatment at any situation, because even this voice of a family member in support of life-sustaining treatment has more moral power from filial piety culture. This characteristic is inclined to support life-sustaining treatment more often than not in average attitudes of family members. Despite public opinions favoring withholding of life-sustaining treatment, it is general that Koreans continue such treatment instead of hospice and palliative care, even at terminal stages.

We can find out other reasons for institutional underdevelopment of hospice and palliative care. There are various types of hospice services: hospice centers in general hospitals, independent hospice center separated from general hospitals and home-based hospice care services. In reality, most hospice centers in Korea are yet inside general hospitals, because of care flow for cancer patients and of governmental policies. Most cancer patients are at first diagnosed with their terminal situations at a community hospital. However, they visit higher-quality hospitals and try to get more authorized confirmation of their terminal situations there. A problem is that they try to remain at that hospital although they can expect no more benefits from medical practices. It is mostly due to their need of active life-sustaining treatments, but also due to their anxiety about reliable medical care in emergency situations nearing death at neighboring community hospitals. This is reinforced by relatively low medical cost at high-quality general hospitals under the public health insurance system. From an outside perspective, general hospitals have no choice but to have internal hospice and palliative care centers for terminal cancer patients in order to governmentally

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6 This survey of bioethics and politics of the elderly surveyed 200 persons among older adults, 121 persons among medical experts, 102 persons among care workers and 219 persons among other groups January 14-February 10, 2014.
certify their own cancer centers that lead to more profits. Therefore, in reality they try to reduce hospice beds because of low profits in a comparison with the ICU and hospice and palliative care center among cancer centers.

A legal provision of hospice services only to terminal cancer patients partly supports an integrated model of ICU and hospice and palliative care because of a need of systematic transfer from ICU work to reliable palliative care, particularly for terminal cancer patients (Nelsen et al 2010). But this integrated model yet tends to be dominated by critical care clinicians and minimizes palliative care. It is, moreover, difficult to move into next stage: a hospice and palliative care unit, because of underdevelopment of palliative care teams in the ICU. In some cases of a transfer to an independent hospice center, it is not until 23 days on average that terminal cancer patients die there (Yun 2014). The unreasonable fact that among dying persons 76.7% died at hospitals reveals that most terminal cancer patients stay still until their death without hospice services.

For terminal cancer patients there is a need for a convenient transfer system from the ICU to a regional hospice center or an independent hospice center and even to home-based services. Independent hospice centers separated from general hospitals play a critical role for improving hospice

| Operating Subjects | Mohyun Hospice Center | JajaeCare Hospital |
|--------------------|-----------------------|--------------------|
| Catholic religious group | Buddhist religious group |
| Type of hospital | Recognized hospice center for terminal cancer patients | Unrecognized hospice center for all terminal ill patients |
| Year of Establishment | 1990 (recognized as special hospice center in 2008) | 2008 |
| Number of Beds | 16 | 107 (hospice patients 18) |
| Medical Doctors (others) | 1 (22) | 2 (35) |
| Social Care Programs | 15 | 10 |
| Volunteers | 25 | 20 |
services\(^7\) because of their outstanding environment and services at regional and community level, Most independent hospice centers such as Calvary Hospital, Mohyun Hospice Center, Jajae Care Hospital, or Saemmul Hospice Center, etc. were established and operated by Catholic, Evangelical and Buddhist religious groups in a charitable way. Many social and spiritual services and programs are covered there and are being developed now.

**Hospice Services for Terminal Cancer Patients with Little Financial Support**

All Koreans are protected universally under the public health insurance system, and therefore they can easily visit hospitals, especially higher-quality hospitals, more often than other advanced countries (OECD 2015, p. 121). The aging trend seems to offer a challenge to the sustainability of the universal health insurance system because older adults have serious and chronic diseases more often (Hyun et al. 2012). In 2011, older adults 65+ accounted for 10% of the entire population but accounted for 33% of medical expenses, while in 2014 they were 12% of the population but accounted for 36.3% of medical expenses. It is estimated that their medical expenses will reach 45.6% in 2020 (Park et al. 2011). This trend has been accelerated according to the higher speed of aging. Even with a different medical expense structure, 87.0% of total medical costs for the Top 8 diseases were covered by public health insurance (Seo et al 2013, p. 91). Musculoskeletal diseases, cardiovascular diseases, malignant neoplasm including cancer, and neural psychiatric diseases, which are common at old age,\(^8\) have higher costs. Aging itself has basically negative influence on sustainable universal health insurance. Medical expenses of older adults were annually increasing at the rate 17.2% higher than that of the general populations which was increasing 9.99% during 2001-2011 (Hyun et al. 2012).

It should be remembered that higher medical expenses are inclined to be paid before death.\(^9\) In Korea, a similar trend was found out according to the

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\(^7\) An independent hospice center has the highest preference among Koreans (Choi et al 2014, p. 310)

\(^8\) In older adults aged 65+ the ratio of getting hypertension reached 53.0% against 13.1% of the general populations, while that of getting degenerative arthritis reached 34.0% against 7.0% according to health statistics in 2011 (Yun 2015).

\(^9\) In the US 60% of the total medical cost was paid within 90 days before death, and 36% was paid within 30 days (Bruntin et al. 2004). In another paper, with Medicare, 30% was paid one year before
statistics of medical costs of deaths in 2011: medical cost increased from one year before death and rapidly increased 6 months before death.

Medical costs paid before death were the highest for terminal patients. If we focus on medical cost paid 3 months before death, malignant neoplasm, including cancer, has the highest cost, at 9,122 thousand Korean Won, with cerebrovascular diseases at 6,343 thousand Won. Cardiovascular diseases cost 3,718 thousand Won, and others cost 4,904 thousand Won (Lee et al. 2011). These results reveal an economic reason for implementing hospice service foremost for terminal cancer patients (Suh et al. 2015, p. 97).

For comprehensive management of cancer patients, the government began a pilot project for financial coverage of hospice and palliative care in public health insurance with a trial for legal implementation of hospice and palliative care. From 2009-2011, 7 hospitals participated in the first project, and from 2011-2014, 20 hospitals participated in the second pilot project in order to develop the insurance unit cost of hospice and palliative care. After the pilot projects, hospice and palliative care are covered by public health insurance with more realistic payments from July 2015. As is shown in Table 7, it is covered by a basic payment of 161-186 thousand Korean Won (US$ 130-155) per day and a caregiver cost of 80 thousand Won (US $66), etc.

However, this public coverage has problems: first, hospice services are
covered inside a fixed total payment per day. Hospice centers cannot try to
develop and provide many new services financially, except volunteer
activities. Poor dying persons have no choice but minimal services because of
private payment of all over-costs. The core problem is an unrealistically low
level of fixed total coverage. The second problem is the medical care-centered
coverage system. Not only medical, but also social and spiritual care is
needed for a terminal patient; all psychosocial and spiritual care is not
covered except at an unrealistically fixed total cost. The latter can be covered
under long-term care insurance. Public health insurance and long-term care
insurance are operated in totally separate ways because the government
wants to protect its financial soundness by preventing elderly patients from
receiving dual benefits. But this separated operation has barriers to offering
an integrative service, especially in hospice facilities.

Challenges from an Enactment of a New Hospice and Palliative
Care Act

Hospice service can be used institutionally only by terminally ill cancer
patients under the Cancer Control Act. Since Korean government’s trials of
hospice for terminal cancer patients, there was a long history of trials for expanding hospice service for all terminally ill patients from 2008, but they ended in failure. The new Hospice and Palliative Care Act is now in legislation as a basic act for offering hospice service to all terminally ill patients with financial support. After many legislation failures, this Act was supported once more by more than 10 thousand persons including opinion leaders with their signature and proposed to Parliament in April 2015. It was not until February 2016 that this Act was passed and promulgated at the front of the high speed of aging.

Although this new Act takes over hospice items in the Cancer Control Act, it is characterized as follows: first it will lay a legal basis for expanding hospice service to all terminally ill patients. In the US, hospice service was used foremost for terminal cancer patients and expanded to other terminally ill patients; cancer patients used 40.1% of entire hospice services, while debility-unspecific patients used 13.1%, heart patients used 11.5%, dementia patients used 11.2%, lung cancer patients used 8.2%, etc. in 2009. The WHO recommended hospice service not only to cancer patients, but also to sufferers of Alzheimer's diseases, dementia, cardiovascular diseases, diabetes, renal failure, chronic respiratory failure, Parkinson's neurosis, Parkinson's disease, rheumatic joint disorders, drug-resistant tuberculosis, etc. The new Act includes AIDS, chronic respiratory failure and chronic liver cirrhosis, and makes a decision of gradual expansion, finally, into 9 non-cancer diseases recommended by the WHO. The government should provide a master plan for it because what diseases will be legally and institutionally included will be a socially hot issue. There is a need for standard guidelines of procedures and services according to different patterns of death in each disease.

Second, it offers a legal basis to support an establishment of hospice facilities and their financial expansion at the community level. But the new Act has an assumption of medical care-centered care flow from ICU to hospice facilities. In the new Act, most terminal patients are assumed to stay in hospitals. But hospice service is better used in home- and community-based ways. Most Koreans want to meet their death in a familiar and relaxed environment like home. Therefore, more critical is an incentive or push measure for hospice patients to move from hospice centers near an ICU to regional hospice centers. It can include public support for transfer costs to regional hospice centers or independent hospice centers. In the care flow

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10 In a presentation at hearings of the enactment of the Hospice and Palliative Care Act, even hospice patients were assumed to stay at middle- and higher-level general hospitals (Yun 2015).
there is in reality a problem of oversupply of commercial care hospitals, which try to recognize a hospice facility officially. Therefore, the government should evaluate and certify service levels and facility criteria of hospice facilities strictly, for higher quality. Patients in long-term care facilities should be able to receive medical palliative care from palliative care teams in regional hospice center or public medical center nearby, and social-psychological cares supported by long-term care insurance. Home-visit care service, including hospice service, is yet underdeveloped. Home-visit social and medical care service seems to be difficult to be evaluated and paid by both long-term care insurance and public health insurance plans. But home-visit care services, including hospice services at a community level, are most able to enhance quality of life for older adults before death because of the intimate service environment and the cost saving, from the financial perspective of social insurance plans. Residential long-term care facilities, including “care hospitals,” cannot hold additional hospice service, but in reality 40% of older adults using nursing homes die there before moving to a hospital. This reality shows us a situation in which many of the elderly on their deathbeds yet remain in nursing homes without hospice service.

Third, the new Act does not legally obligate physicians to explain terminal situations and prognoses to their patients. Hospice and palliative care services can be received by terminal patients who want it. Physicians can legally inform patients of their terminal situation and prognosis only when their patients want it. Activating hospice and palliative care is dependent only on consciousness and the values of terminal patients and their family members. Even in this legal context, only the government has a legal obligation for publicizing hospice and palliative care to the general population. To implement the new Act in successful way, we need a role not only for the government but also for civil movements for understanding hospice and palliative care well and for participating in it.

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References

Baars, Jan et al. (eds.). 2014. *Ageing, Meaning and Social Structure: Connecting critical and humanistic gerontology*. Policy Press.

Callahan, Daniel. 2000. “Justice, Biomedical Progress and Palliative Care”, *Progress in Palliative Care* 8: 3-4.
Center for Bioethics/University of Minnesota. 2005. End of Life Care: An Ethical Overview.

Choi, Kyungsuk. 2014. “Yeonmyeongchiryokwanryeon Daebupwon Pangyeol-kwa Jaengjeom (Decision of Supreme Court about Life-Sustaining Treatment and its Issues) Proceeding Paper of 8th Forum of Biopolitics of the Elderly. Sept. 2014.

Choi, Youngsun. 2014. “Malgihwanja Imjong Hyunsil-kwa Munjaejeom (Dying Situation of Terminal Patients and Its Problems)” Proceeding Paper of National Assembly Discussion Table about Policy for Supporting Well-Dying for Terminal Patients. December 8th, 2014.

Council on Ethical and Judicial Affairs. 1999. “Medical Futility in End-of-Life Care. Report of the Council on Ethical and Judicial Affairs.” in Journal of American Medical Association 281 (10): 937-41.

Foucault, Michel. 1973. The Birth of the Clinic (trans. by A.M. Sheridan) London: Routledge

Heo, Daesuk. 2008. “Mueuimihan Yeonmyeongchiryo-leul Geobu-hal Kwalri (Right for rejecting meaningless life-sustaining treatment)” Daehaneuisahyuphoiji (Journal of Korean Medical Association) 51(6): 524-9.

____. 2014. “Hankukin-euiImjongmunhwa (Dying Culture of Koreans)” Proceeding Paper of National Assembly Discussion Table about Policy for Supporting Well-Dying for Terminal Patients. December 8th, 2014

Hong, Sukkyung. 2004. “Malgihwanja-e Daehan Yeonmyeongeuiro Yubo-wa Imjongja-eui Joneomseong (Withholding Life-Sustaining Treatment for Terminal Ill Patients and Dignity of Dying Persons)” Kwahaksasang (Science Culture) 1: 73-89.

Hyun, Kyeongrae et al. 2012. Geongangbohyum Jinryobi Byeondongyoin Bunseok (An Analysis of Variable Factors for Changing Medical Expenses in Health Insurance), Geongangbohyum Jeongchaek Yeonguwon (Health Insurance Policy Institute)

Kim, Daekyun. 2014. “Hospice-wanhwaeuiryo Hwalseonghwa-leulwihan Hakshim Seonkyeolkwaje (Several Challenges for Activating Hospice & Palliative Care” Hospice-wanhwaeuiryo-chege Jeongrip-eulwihan Gugajeongchaek Banghyang Toronhoi (Discussion Table about National Policies for Making System of Hospice & Palliative Care) November 18th, 2014.

Kim, Siyoung et al. 2012. Gajeongwanhwaeuiryomitwanhwacareteam Jeodo Doip Bangan Yeongu (A Policy Study on Introduction of Home-based Palliative Care and Palliative Care Team Institution), Hospicewanhwagakhoi (Association of Hospice & Palliative Care)

Kim, Soyun et al. 2009. “Yeonmyungchiryojungdan-kwa Yubo Geoljeong-e daehan Hankuk Junghwanja Jeondameuisaeuisik-kwa Silhaeng (Consciousness and Practices of Critical Patients Doctors about Withholding and -drawing Life-Sustaining Treatment)” Hankukeuiryoyunrihakhoiji (Journal of Korean Association of Medical Ethics) 12(1): 15-28.
Kim, Sunmi et al. 2011. Samang-jeon Euiryoyoung-eui Hapri-jeok Gwanri-leulwihan Jinryobi Jichulgujo Bunseok (An Analysis of medical expenditure structure for rationally using medical services before death) Geongang Bohyum Jeongchaek Yeonguwon (Health Insurance Policy Institute) March 2011.

Kwon, Bokkyu et al. 2010. “Urinara Ilbu Hospital-ese Hwanja, Bohoja, Euiryojin-eu Yeonmyung Chiryo Jungji-kwanryeon Euisakyeoljeong-e kwanhan Taedo Yeongu (A study of Patients’ Their Family’s, Medical Experts’ Attitude about Withholding Life-Sustaining Treatment in Some Hospitals in Korea.” Hangukeuiryojunrihakhoiji (Korean Journal of Medical Ethics) 13(1): 1-16.

Lee, Geonse. 2009. Hospice Wanhwaeuiryo Gwanrijichim Pyojunhwamit Hyoeuljeokin Euiryojeondalchekye Guchuk (Standardization of guideline of Hospice & Palliative Care and Establishment of Effective Delivery System of Medicine), Institute of Health Data Review & Evaluation

Lee, Hyoyoung et al. 2013. Janggiyoyangbohyum-I Euiryoiyong Byeonhwa-e micheuneun Yeonghyang (Influence of Long-Term Care Insurance on changing Medical Usage, Geongang Bohyum Jeongchaek Yeonguwon (Health Insurance Policy Institute), November 2013.

Lee, Sunmi et al. 2011. Samangjeon Euiryoiyong-eui Haprijeok Gwanri-leulwihan Jinryobi Jichulgujo Bunseok (Analysis on Medical Expense Structure for Reasonable Management of Medical Usage Before Death), Geongang Bohyum Jeongchaek Yeonguwon (Health Insurance Policy Institute).

Lee, Suyeon et al. 2015. 65se Isang Jinryobi Jichul Jungjanggi Chukye Yeongu (A Study on Long- and Middle-term Estimation of Medical Expenses among Older Adults of 65+), Geongang Bohyum Jeongchaek Yeonguwon (Health Insurance Policy Institute).

Lemke, Thomas. 2011. Biopolitics: An Advanced Introduction, New York University Press

Lynn, Joanne and David M. Adamson. 2003. Well-Living at the End-of-Life, Santa Monica, CA.: RAND

Murtagh, Fem et al. 2004. “Patterns of Dying: palliative care for non-malignant disease”, Clinical Medicine 4(1): 39-44.

Nelsen, Judith E. et al. 2010. “Models for structuring a clinical initiative to enhance palliative care in the intensive care unit: A Report from the IPAL-ICU Project”, Critical Care Medicine 38 (9): 1765-72.

OECD. 2015. Health at a Glance 2015: OECD Indicators, Paris.

Park, Injeong et al. 2011. 2010 Nyeondo Geongangbohyum Hwanja Jinryobi Siltaejosa (A Study on Real Situation of Medical Expenses from Health Insurance Patients in 2010), Geongang Bohyum Jeongchaek Yeonguwon (Health Insurance Policy Institute).

Park, Jaewon et al. 2013. “Jaegamit Yoyangsiseol Geju Noin-eui Sajeoneuiryoieuhyangseo-e daehan Jisik, Gyeongheommit Seonhodo (Knowledge, Experience and Priority of the Elderly at Home and at Silvertown
about Advance Directive).” *Hankuknonyeonhak (Korean Journal of Gerontology)* 33(3): 581-600.

Park, Jonghyeon et al. 2010. Janggiyo-yang-kwa Euryo Survice-eui Tonghap Care Mohyeonggaebal (Development of Integrated Care Model of Long-Term Care and Medical Care), Geongang Bohyum Jeongaechaek YeonguWon (Health Insurance Policy Institute).

Seo, Namkyu et al. 2013, Jilbyeong-byelowmit Sahoigeongjae Yoin-byeol Euryobi Gyumo Chujeong Yeongu (A Study on Estimation of Medical Costs According Diseases and Socio-Economic Factors), GeongangbohyumJeongchaekyeonguW on (Health Insurance Policy Institute)

Suh, Yi-Jong. 2014. “‘Death as the Social and Thanatopolitics of the Elderly.” Proceeding paper of Korean Association of Critical Sociology October 25th, 2014.

Suh, Yi-Jong et al. 2014. Nonyeon-eui Saengmyeongyunri-eui Saengmyeongsahoi. saengmyeongjeongchi-jeok Yeongu – Nohwa, Manseonggilhwan, Jukeum-edaehan Euisikjosa (Biosocial and –political Study on Bioethics of the Elderly – Survey Results on Aging, Chronic Diseases and Death) A Report of First Period of SSK Research to Korean Research Foundation. June 2014.

——. 2015. Goryungsahoi-eui Nonyungi Mansungjihwan-gwa Hospice-eui Saengmyungjeongchi (Biopolitics of Ageing related Chronic Diseases and Hospice in Aged Society). Seoul: Bakyungs.

Solomon, Mildred Z. et al. 1993. “Decisions Near the End of Life: Professional Views on Life-Sustaining Treatment” *Public Health Policy Forum* 83(1): 14-23.

Walker, Alan (ed.). 2014. *The New Science of Ageing*. Policy Press.

Won, Siyeon. 2015. “Noingeongangbojangkwanryeonbeop-eui Chekyeseong Jego-leulwihan Ibbeopkwajae (Legal Task for Improving Systematicity among Various Acts of Protecting Older Adults’ Health)” NARS-Controversial Issues 966, March 28th, 2015.

Yun, Juyoung, 2015, Manseongjihwanja-eui Euryoiyoung Hyeonhwang – Gohyeolap, Toihangseong Gwanjeolyeom-euljungsim-euro (Situation of Medical Usage of chronic ill patients – Focus on Hypertension and Degenerative Arthritis), Bogeonsanyeop Brief (Health Industry Brief) 163: 1-8.

Yun, Youngho. 2014. *I Don't Want to Die in Korea*, Seoul: Yeoldorado.

——. 2015. “A Presentation Paper of Hearings of the Enactment of Hospice & Palliative Care Act.” Hospice.Wanhwaeuirtyo Gukminbonbu Bogoseo (Report of National Campaign for Hospice & Palliative Care), June 2015.

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