

DISPARITIES IN THE TREATMENT AND MORTALITY RISK OF ENDOMETRIAL CANCER AMONG WOMEN WITH DISABILITIES: A NATIONAL DATABASE STUDY

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INTRODUCTION

- Endometrial cancer incidents have increased worldwide.
- In Korea, if endometrial cancer is detected early when it is confined to the uterus, the 5-year survival rate is over 80–90%.

PURPOSE

• This nationwide study investigated disparities in endometrial cancer care and outcomes between women with and without disabilities in Korea.

METHODS

Study Setting and Data Source

- Korean National Health Service (KNHS) : KNHS provides public health insurance to all Koreans.
- Disability Registration System in the Republic of Korea (KNDRS) : KNDRS was established in 1989 to provide social welfare benefits based on predefined criteria for disability registration and objective medical assessment using a disability grading system, which are determined by the type and severity of disability.
- Cancer Registration System in the Republic of Korea (KCCR) : KCCR began as a hospital-based nationwide cancer registry that has been active since 1980. The data cover over 90% of new cancer cases in Korea. **Study Subjects**
- We linked the multi-database with the national disability registration data.
- All subjects diagnosed with endometrial cancer (ICD code C54.1) (N=4,432)
- The study sample included 726 patients with disabilities and 2,630 patients without disabilities at the endometrial cancer diagnosis stage

Treatment of endometrial cancer in patients with Disabilities

- disabled patients.

Table 1. Mortality Risk for Patients with Endometrial Cancer by Disability Grade and Type

Characteris By Disability Without disa With disabil By disability Severe (Gra Mild (Grade By disability f Physical/brai Severe (Gra Mild (Grade Communicati Severe (Gra Mild (Grade Mental Severe (Gra Mild (Grade Cardiopulmo Severe (Gra Mild (Grade Others Severe (Gra Mild (Grade

RESULTS

• Endometrial cancer patients with disabilities were less likely to undergo recommended surgery (adjusted odds ratio (aOR) 0.85, 95% confidence interval (CI 0.65 – 1.10) or chemotherapy (aOR 0.76, 95% CI 0.61 – 0.95) versus non-

stics	All	No. of death	Rate per 1000	Crude HR (95% CI)	Adjusted HR (95% CI) *
abilities	2,630	483	24.6	Ref	Ref
ity	726	167	34.6	1.36 (1.14 - 1.62)	1.44 (1.20 - 1.73)
grades					
de 1-3)	334	72	32.0	1.26 (0.98 - 1.61)	1.32 (1.01 - 1.73)
4-6)	392	95	36.9	1.44 (1.16 - 1.80)	1.53 (1.22 - 1.92)
types					
in					
de 1-3)	138	39	43.5	1.72 (1.24 - 2.39)	1.24 (0.88 - 1.74)
4-6)	312	77	37.4	1.47 (1.15 - 1.87)	1.54 (1.21 - 1.96)
ion					
de 1-3)	50	6	16.2	0.66 (0.29 - 1.47)	0.81 (0.36 - 1.83)
4-6)	66	15	37.0	1.38 (0.83 - 2.31)	1.50 (0.89 - 2.51)
de 1-3)	102	16	23.3	0.90 (0.55 - 1.48)	1.65 (0.95 - 2.84)
4-6)	1	0	0.0	-	-
nary					
de 1-3)	12	3	37.5	1.46 (0.47 - 4.53)	1.16 (0.37 - 3.65)
4-6)	1	0	0.0	-	-
de 1-3)	32	8	36.5	1.42 (0.71 - 2.86)	3.82 (1.84 - 7.94)
4-6)	12	3	32.6	1.39 (0.45 - 4.33)	2.00 (0.63 - 6.30)
ae CCLi	ncome place of residence cancer stage surgery chemotherapy radiotherapy				

*Adjusted for age, CCI, income, place of residence, cancer stage, surgery, chemotherapy, radiotherapy. HR = hazard ratio; CI = confidence interval; Ref = reference.

Mortality risk in endometrial cancer patients with disabilities

CONCLUSION

- mortality risk.

LIMITATIONS

recommended therapies.

IMPLICATIONS

disabilities.

Adjusting for demographic and clinical factors, endometrial cancer patients with disabilities had a 44% higher overall mortality risk compared with non-disabled patients (adjusted hazard ratio (aHR) 1.44, 95% CI 1.20-1.73) (Table 1).

• This national study revealed that disabled Korean women with endometrial cancer received inequitable cancer care, which resulted in poor survival outcomes.

• Patients with severe disabilities are less likely to undergo surgery/chemotherapy and, subsequently face a 44% higher

• It was not possible to confirm whether the patients received cancer treatments according to clinical guidelines or to examine the reasons some patients did not undergo the

• A multidimensional approach integrating targeted patient support, educational interventions for providers, and health system policy improvements is essential to equitably improve access to cancer care and outcomes among women with