

# Curriculum Vitae

## Hyung Seok Park, MD, PhD

Prof. Park is a breast surgeon and surgical oncologist currently working as a professor in the Department of Surgery at Yonsei University College of Medicine.

He is one of the pioneers in robot mastectomy. He began performing the robotic mastectomy using cadaveric samples in 2013. He performed the first human case of a robot mastectomy in Asia in 2016. He developed a gasless technique of robot mastectomy and was the first to publish a paper describing it. He also performed the first robot mastectomy and robotic axillary lymph node dissection using the new da Vinci SP system in 2018 and 2019, respectively. He is actively applying robotic surgical systems in mastectomy and/or axillary lymph node dissection for women with breast cancer or BRCA1/2 mutations. He is one of the high-volume surgeons in his country performing over 500 breast surgeries in 2018. His team at Severance Hospital performed over 200 cumulative cases of robotic mastectomy in 2020.

He is actively participating in the clinical trial group of the Korean Breast Cancer Society. He established the Korea Robot-Endoscopy & Minimal Access Breast Surgery Study Group (KoREa-BSG) and the director of general affairs of the group. He has published over 70 scientific articles in the literature, conducted numerous lectures as an invited speaker in many scientific conferences, and he wrote several chapters of a textbook of breast oncology in Korea. His research interests include robot breast surgery, oncoplastic breast surgery, surgical oncology, minimally invasive surgery, endocrine surgery, biostatistics, preclinical models, and genomics.

### Personal Data

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Website: <http://robotmastectomy.com>

<http://prohbot.com>

### Education

2018: Ph.D., Yonsei University College of Medicine

2005: Master of Science, Graduate School, Kosin University

2000: M.D., Kosin University College of Medicine

## **Professional Training and Employments**

- 2024 – Present: Professor, Division of Breast Surgery, Department of Surgery, Yonsei University College of Medicine, Seoul, Republic of Korea
- 2021 – 2024: Associate Professor, Division of Breast Surgery, Department of Surgery, Yonsei University College of Medicine, Seoul, Republic of Korea
2021. 2: Visiting Scholar, Department of Convergence Medicine, College of Medicine, University of Ulsan, Asan Medical Center, Seoul, Republic of Korea (PI: NamKug Kim, PhD, Research Subjects: Artificial intelligence and 3D printer)
- 2014 – Present: Member of the multi-disciplinary team of Hereditary Breast and Ovarian Cancer Clinic at Cancer Prevention Center, Yonsei Cancer Center
2019. 8 – 2020. 8: Chief of Division of Breast Surgery, Department of Surgery, Yonsei University College of Medicine, Seoul, Republic of Korea
- 2018 – 2021: Clinical Associate Professor, Division of Breast Surgery, Department of Surgery, Yonsei University, Seoul, Republic of Korea
- 2012 – 2017: Clinical Assistant Professor, Division of Breast Surgery, Department of Surgery, Yonsei University, Seoul, Republic of Korea
- 2011 – 2012: Clinical Fellow, Division of Breast and Endocrine Surgery, Department of Surgery, Seoul St. Mary Hospital and The Catholic University of Korea College of Medicine, Seoul, Republic of Korea
- 2009 – 2011: Clinical and Research Fellow, Division of Breast Surgery, Department of Surgery, Yonsei University, Seoul, Republic of Korea
- 2008 – 2009: Attending Surgeon, Busan Mirae Breast Clinic, Busan, Republic of Korea
- 2007 – 2008: Attending Surgeon, Busan Veterans Hospital, Busan, Republic of Korea
- 2005 – 2007: Surgeon, Medical advisor, Busan medical information center, Busan National University Hospital and the Ministry of Health and Welfare, Republic of Korea
- 2005 – 2008: Public Health Doctor as a military service, the Ministry of Health and Welfare, Republic of Korea
2005. 2 – Board-certified surgeon, Republic of Korea
- 2001 – 2005: Residency of Surgery, Kosin University Gospel Hospital, Busan, Republic of Korea
- 2000 – 2001: Internship, Kosin University Gospel Hospital, Busan, Republic of Korea

## **Research and Surgical Area**

Robotic breast and axillary surgery

Surgical oncology: breast cancer surgery, oncoplastic surgery, robotic surgery, endoscopic surgery, cancer treatment, endocrine therapy, chemotherapy, target therapy

General Surgery: benign breast surgery, emergency surgery including appendectomy, laparotomy, bowel resection

Genomics: hereditary breast & ovarian cancer syndrome, hereditary cancer syndrome, NGS, cancer panel, somatic mutations, homologous recombinant deficiency, pharmacogenomics

Biostatistics: medical statistics, regression, nomogram, machine learning, prediction models, deep learning, artificial intelligence

**Medical License No.** 70413 (Korea, Republic of)

## **GCP**

KGCP – 2023.08.29/SEV-CREDU-14-2023-1011  
2022.07.15/SEV-CREDU-14-2022-0914  
2021.02.25/SEV-CREDU-14-2021-0164  
2021.01.20/SEV-CREDU-14-2021-0016  
2020.01.22/SEV-CREDU-14-2020-0023  
2019.06.19/SEV-CREDU-14-2019-1157  
2018.02.21/ SEV-CREDU-14-2018-5929  
2017.05.10 / SEV-CREDU-14-2017-3268  
2016.12.06 / SEV-CREDU-14-2016-2088  
2016.11.09 / [on]-16-CRI-00010575

## **Published articles between 2009 and 2024**

Kim HJ, Shin D, Cho J, Lee K, Lee J, Park HS.

Use of Advanced Energy Devices and Fiberoptic Retractors in Single-Incision Breast-Conserving Surgery for Breast Cancer.

Yonsei Med J. 2024 Sep;65(9):511-518. doi:10.3349/ymj.2023.0348. Epub 2024 Jul 09.

Bae SJ, Chun JW, Lee SB, Ryu JM, Nam SJ, Jeong J, Park HS, Ahn SG.

Outcomes of sentinel node biopsy according to MRI response in an association with the subtypes in cN1-3 breast cancer after neoadjuvant systemic therapy, multicenter cohort study.

Breast Cancer Res. 2024 Apr 17;26(1):66. doi: 10.1186/s13058-024-01807-8.

PMID: 38632652

Yoon KH, Lee SJ, Kim Y, Ahn JH, Kim JY, Park HS, Kim SI, Park S.

A simplified risk scoring system for predicting high-risk groups in gene expression tests for patients with estrogen receptor-positive, human epidermal growth factor receptor 2-negative, and node-positive breast cancer.

Ann Surg Treat Res. 2023 Dec;105(6):360-368. doi: 10.4174/astr.2023.105.6.360. Epub 2023 Nov 29.

PMID: 38076600

Lee SJ, Go J, Ahn BS, Ahn JH, Kim JY, Park HS, Kim SI, Park BW, Park S.

Lymphovascular invasion is an independent prognostic factor in breast cancer irrespective of axillary node metastasis and molecular subtypes.

Front Oncol. 2023 Nov 17;13:1269971. doi: 10.3389/fonc.2023.1269971. eCollection 2023.

PMID: 38053656

Go J, Ahn JH, Park JM, Choi SB, Kim JY, Park HS, Kim SI, Park BW, Park S.  
Distinct Prognosis of Minimal Residual Disease According to Breast Cancer Subtype in Patients with Breast or Nodal Pathologic Complete Response After Neoadjuvant Chemotherapy.  
Ann Surg Oncol. 2023 Nov;30(12):7060-7068. doi: 10.1245/s10434-023-13938-x. Epub 2023 Aug 3.  
PMID: 37537485

Cho JH, Park JM, Park HS, Kim HJ, Shin DM, Kim JY, Park S, Kim SI, Park BW.  
Oncologic Outcomes in Nipple-sparing Mastectomy with Immediate Reconstruction and Total Mastectomy with Immediate Reconstruction in Women with Breast Cancer: A Machine-Learning Analysis.  
Ann Surg Oncol. 2023 Nov;30(12):7281-7290. doi: 10.1245/s10434-023-13963-w. Epub 2023 Aug 16.  
PMID: 37587360

Kim SG, Kim MH, Park S, Kim GM, Kim JH, Kim JY, Park HS, Park S, Park BW, Kim SI, Ji JH, Jeong J, Shin K, Lee J, Kim HD, Jung KH, Sohn J.  
Efficacy of Limited Dose Modifications for Palbociclib-Related Grade 3 Neutropenia in Hormone Receptor-Positive Metastatic Breast Cancer.  
Cancer Res Treat. 2023 Oct;55(4):1198-1209. doi: 10.4143/crt.2022.1543. Epub 2023 Apr 11.  
PMID: 37054718

Kim MH, Kim GM, Ahn JM, Ryu WJ, Kim SG, Kim JH, Kim TY, Han HJ, Kim JY, Park HS, Park S, Park BW, Kim SI, Jeong J, Lee J, Paik S, Kim S, Jung KH, Cho EH, Sohn J.  
Copy number aberrations in circulating tumor DNA enables prognosis prediction and molecular characterization of breast cancer.  
J Natl Cancer Inst. 2023 Sep 7;115(9):1036-1049. doi: 10.1093/jnci/djad080.  
PMID: 37166557

Kim JH, Toesca A, Pozzi G, Gazzetta G, Marrazzo E, Park HS.  
Controversies and strengths of robot-assisted mastectomy.  
Eur J Cancer Prev. 2023 Jul 1;32(4):388-390. doi: 10.1097/CEJ.0000000000000812. Epub 2023 Jun 7.  
PMID: 37302018

Kim S, Lee K, Alshahrani MA, Ahn JH, Lee J, Park HS.  
Frozen Sections in Decision-Making Regarding the Axillary Procedures in Breast Conserving Surgery for Intraductal Carcinoma at Preoperative Diagnosis.  
J Korean Med Sci. 2023 Jul 31;38(30):e224. doi: 10.3346/jkms.2023.38.e224.  
PMID: 37527907

Ryu JM, Lee J, Lee J, Ko B, Kim JH, Shin H, Park HS; Korea Robot-endoscopy Minimal Access Breast Surgery Study Group (KoREa-BSG).  
Mastectomy with Reconstruction Including Robotic Endoscopic Surgery (MARRES): a prospective cohort study of the Korea Robot-Endoscopy Minimal Access Breast Surgery

Study Group (KoREa-BSG) and Korean Breast Cancer Study Group (KBCSG).  
BMC Cancer. 2023 Jun 21;23(1):571. doi: 10.1186/s12885-023-10978-0.  
PMID: 37344780

Ahn JH, Go J, Lee SJ, Kim JY, Park HS, Kim SI, Park BW, Park VY, Yoon JH, Kim MJ, Park S.  
Changes in Automated Mammographic Breast Density Can Predict Pathological Response  
After Neoadjuvant Chemotherapy in Breast Cancer.  
Korean J Radiol. 2023 May;24(5):384-394. doi: 10.3348/kjr.2022.0629.  
PMID: 37133209

Ahn JH, Park JM, Choi SB, Go J, Lee J, Kim JY, Park HS.  
Early Experience of Robotic Axillary Lymph Node Dissection in Patients with Node-  
positive Breast Cancer.  
Breast Cancer Res Treat. 2023 Apr;198(3):405-412. doi: 10.1007/s10549-022-06760-8.  
Epub 2022 Nov 23.  
PMID: 36418519

Toesca A, Park HS, Ryu JM, Kim YJ, Lee J, Sangalli C, Maisonneuve P, Marrazzo E, Pozzi G,  
Gazzetta G, Montemurro F, Corso G, Lissidini G, Caldarella P, Mazzotta E, Massari G,  
Veronesi P.  
Robot-assisted mastectomy: next major advance in breast cancer surgery.  
Br J Surg. 2023 Mar 30;110(4):502-503. doi: 10.1093/bjs/znad006.  
PMID: 36708043

Kim CG, Kim MH, Kim JH, Kim SG, Kim GM, Kim TY, Ryu WJ, Kim JY, Park HS, Park S, Cho  
YU, Park BW, Kim SI, Jeong J, Sohn J.  
On-treatment derived neutrophil-to-lymphocyte ratio and survival with palbociclib and  
endocrine treatment: analysis of a multicenter retrospective cohort and the PALOMA-2/3  
study with immune correlates.  
Breast Cancer Res. 2023 Jan 12;25(1):4. doi: 10.1186/s13058-022-01601-4.  
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Min J, Yu YW, Lee J, Yeon S, Park HN, Lee JS, Courneya KS, Park HS, Kim SI, Jeon JY.  
Application of the theory of planned behavior to understand physical activity intentions  
and behavior among Korean breast cancer survivors.  
Support Care Cancer. 2022 Nov;30(11):8885-8893. doi: 10.1007/s00520-022-07258-1.  
Epub 2022 Jul 6.  
PMID: 35792923

Park HS, Lee J, Lai HW, Park JM, Ryu JM, Lee JE, Kim JY, Marrazzo E, De Scalzi AM, Corso G,  
Montemurro F, Gazzetta G, Pozzi G, Toesca A.  
ASO Visual Abstract: Surgical and Oncologic Outcomes of Robotic and Conventional  
Nipple-Sparing Mastectomy with Immediate Reconstruction-International Multicenter  
Pooled Data Analysis.  
Ann Surg Oncol. 2022 Oct;29(11):6658-6659. doi: 10.1245/s10434-022-12075-1.  
PMID: 36018520

Park JS, Shin S, Lee YJ, Lee ST, Nam EJ, Han JW, Lee SH, Kim TI, Park HS.  
Implication and Influence of Multigene Panel Testing with Genetic Counseling in Korean Patients with BRCA1/2 Mutation-Negative Breast Cancer.  
Cancer Res Treat. 2022 Oct;54(4):1099-1110. doi: 10.4143/crt.2021.978. Epub 2021 Nov 17.  
PMID: 34793666

Lee J, Ku GY, Lee H, Park HS, Ku JS, Kim JY, Park S, Park BW.  
Lobular Carcinoma in Situ During Preoperative Biopsy and The Rate of Upgrade.  
Cancer Res Treat. 2022 Oct;54(4):1074-1080. doi: 10.4143/crt.2021.864. Epub 2021 Dec 21.  
PMID: 34942684

Park HS, Lee J, Lai HW, Park JM, Ryu JM, Lee JE, Kim JY, Marrazzo E, De Scalzi AM, Corso G, Montemurro F, Gazzetta G, Pozzi G, Toesca A.  
Surgical and Oncologic Outcomes of Robotic and Conventional Nipple-Sparing Mastectomy with Immediate Reconstruction: International Multicenter Pooled Data Analysis.  
Ann Surg Oncol. 2022 Oct;29(11):6646-6657. doi: 10.1245/s10434-022-11865-x. Epub 2022 May 18.  
PMID: 35583693

Go J, Ahn JH, Park JM, Choi SB, Lee J, Kim JY, Park HS.  
Analysis of robot-assisted nipple-sparing mastectomy using the da Vinci SP system.  
J Surg Oncol. 2022 Sep;126(3):417-424. doi: 10.1002/jso.26915. Epub 2022 May 27.  
PMID: 35622078

Kim BK, Choi JE, Youn HJ, Park HS, Kim D, Oh SJ, Lee HJ, Lee J, Sun WY; Korean Breast Cancer Society.  
Clinicopathological features and prognosis associated with breast cancer laterality: a nationwide study from the Korean Breast Cancer Society.  
Ann Surg Treat Res. 2022 Sep;103(3):119-128. doi: 10.4174/astr.2022.103.3.119. Epub 2022 Sep 6.  
PMID: 36128032

Lee MJ, Won J, Song SY, Park HS, Kim JY, Shin HJ, Kwon YI, Lee DW, Kim NY.  
Clinical outcomes following robotic versus conventional DIEP flap in breast reconstruction: A retrospective matched study.  
Front Oncol. 2022 Sep 14;12:989231. doi: 10.3389/fonc.2022.989231. eCollection 2022.  
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Park HS, Lee J, Kim JY, Park JM, Kwon Y.  
A Prospective Randomized Study to Compare Postoperative Drainage After Mastectomy Using Electrosurgical Bipolar Systems and Conventional Electro-Cautery.  
J Breast Cancer. 2022 Aug;25(4):307-317. doi: 10.4048/jbc.2022.25.e29. Epub 2022 Jun 27.  
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Park S, Ahn S, Kim JY, Kim J, Han HJ, Hwang D, Park J, Park HS, Park S, Kim GM, Sohn J, Jeong J, Song YU, Lee H, Kim SI.  
Blood Test for Breast Cancer Screening through the Detection of Tumor-Associated Circulating Transcripts.  
Int J Mol Sci. 2022 Aug 15;23(16):9140. doi: 10.3390/ijms23169140.  
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Moon J, Park HS, Kim JY, Lee HS, Jeon S, Lee D, Bai SJ, Kim NY.  
Analgesic Efficacies of Intraoperative Pectoralis Nerve II Block under Direct Vision in Patients Undergoing Robotic Nipple-Sparing Mastectomy with Immediate Breast Reconstruction: A Prospective, Randomized Controlled Study.  
J Pers Med. 2022 Aug 12;12(8):1309. doi: 10.3390/jpm12081309.  
PMID: 36013257

Ryu JM, Kim JY, Choi HJ, Ko B, Kim J, Cho J, Lee MH, Choi JE, Kim JH, Lee J, Jung SM, Shin HJ, Lee J, Park HS.  
Robot-assisted Nipple-sparing Mastectomy with Immediate Breast Reconstruction: An Initial Experience of the Korea Robot-Endoscopy Minimal Access Breast Surgery Study Group (KoREa-BSG).  
Ann Surg. 2022 May 1;275(5):985-991. doi: 10.1097/SLA.0000000000004492. Epub 2020 Sep 15.  
PMID: 32941285

Choi SB, Park JM, Ahn JH, Go J, Kim J, Park HS, Kim SI, Park BW, Park S.  
Ki-67 and breast cancer prognosis: does it matter if Ki-67 level is examined using preoperative biopsy or postoperative specimen?  
Breast Cancer Res Treat. 2022 Apr;192(2):343-352. doi: 10.1007/s10549-022-06519-1. Epub 2022 Jan 13.  
PMID: 35025005

Jung JH, Jeon YR, Lee DW, Park HS, Lew DH, Roh TS, Song SY.  
Initial report of extraperitoneal pedicle dissection in deep inferior epigastric perforator flap breast reconstruction using the da Vinci SP.  
Arch Plast Surg. 2022 Jan;49(1):34-38. doi: 10.5999/aps.2021.00703. Epub 2022 Jan 15.  
PMID: 35086306

Moon J, Lee J, Lee DW, Shin HJ, Lee S, Kang Y, Kim NY, Park HS.  
Impact of Body Composition on Postoperative Outcomes in Patients Undergoing Robotic Nipple-Sparing Mastectomy with Immediate Breast Reconstruction.  
Curr Oncol. 2022 Jan 13;29(1):350-359. doi: 10.3390/curroncol29010031.  
PMID: 35049705

Yoo TK, Kang YJ, Jeong J, Song JY, Kang SH, Lee HY, Kim ET, Yi O, Lee HB, Choi S, Park HS, Gwak G, Kim JI, Kim MK, Lee J, Kang HJ, Chae BJ.  
A Randomized Controlled Trial for Doing vs. Omitting Intraoperative Frozen Section Biopsy for Resection Margin Status in Selected Patients Undergoing Breast-Conserving Surgery (OFF-MAP Trial).  
J Breast Cancer. 2021 Dec;24(6):569-577. doi: 10.4048/jbc.2021.24.e51.

PMID: 34979601

Lee J, Kim JY, Bae SJ, Cho Y, Ji JH, Kim D, Ahn SG, Park HS, Park S, Kim SI, Park BW, Jeong J. The Impact of Post-Mastectomy Radiotherapy on Survival Outcomes in Breast Cancer Patients Who Underwent Neoadjuvant Chemotherapy. *Cancers (Basel)*. 2021 Dec 9;13(24):6205. doi: 10.3390/cancers13246205. PMID: 34944827

Joo OY, Song SY, Lew DH, Park HS, Lee DW. Robotic harvest of a latissimus dorsi flap using a single-port surgical robotic system in breast reconstruction. *Arch Plast Surg*. 2021 Nov;48(6):577-582. doi: 10.5999/aps.2021.00710. Epub 2021 Nov 15. PMID: 34818702

Cha C, Ahn SG, Kim D, Lee J, Park S, Bae SJ, Kim JY, Park HS, Park S, Kim SI, Park BW, Jeong J. Axillary response according to neoadjuvant single or dual human epidermal growth factor receptor 2 (HER2) blockade in clinically node-positive, HER2-positive breast cancer. *Int J Cancer*. 2021 Oct 15;149(8):1585-1592. doi: 10.1002/ijc.33726. Epub 2021 Jul 8. PMID: 34213778

Ahn JH, Choi SB, Park JM, Kim JY, Park HS, Kim SI, Park BW, Park S. Level of Combined Estrogen and Progesterone Receptor Expression Determines the Eligibility for Adjuvant Endocrine Therapy in Breast Cancer Patients. *Cancers (Basel)*. 2021 Oct 6;13(19):5007. doi: 10.3390/cancers13195007. PMID: 34638491

Lee J, Park HS, Lee DW, Song SY, Yu J, Ryu JM, Bae SJ, Lew DH, Kim SI, Toesca A. From cadaveric and animal studies to the clinical reality of robotic mastectomy: a feasibility report of training program. *Sci Rep*. 2021 Oct 26;11(1):21032. doi: 10.1038/s41598-021-00278-7. PMID: 34702866

Choi JH, Song SY, Park HS, Kim CH, Kim JY, Lew DH, Roh TS, Lee DW. Robotic DIEP Flap Harvest through a Totally Extraperitoneal Approach Using a Single-Port Surgical Robotic System. *Plast Reconstr Surg*. 2021 Aug 1;148(2):304-307. doi: 10.1097/PRS.0000000000008181. PMID: 34398082

Kim JH, Son NH, Lee JS, Mun JE, Kim JY, Park HS, Park S, Kim SI, Park BW. Time-Sequencing of the Neutrophil-to-Lymphocyte Ratio to Predict Prognosis of Triple-Negative Breast Cancer. *Cancers (Basel)*. 2021 Jul 11;13(14):3472. doi: 10.3390/cancers13143472. PMID: 34298685

Bae SJ, Kim JH, Ahn SG, Jeung HC, Sohn J, Kim GM, Kim MH, Kim SI, Park S, Park HS, Kim JY,



Jeong J.

Real-World Clinical Outcomes of Biosimilar Trastuzumab (CT-P6) in HER2-Positive Early-Stage and Metastatic Breast Cancer.

Front Oncol. 2021 Jun 4;11:689587. doi: 10.3389/fonc.2021.689587. eCollection 2021.

PMID: 34150658

Kim S, Aceti M, Baroutsou V, Bürki N, Caiata-Zufferey M, Cattaneo M, Chappuis PO, Ciorba FM, Graffeo-Galbiati R, Heinzelmann-Schwarz V, Jeong J, Jung MM, Kim SW, Kim J, Lim MC, Ming C, Monnerat C, Park HS, Park SH, Pedrazzani CA, Rabaglio M, Ryu JM, Saccilotto R, Wieser S, Zürcher-Härdi U, Katapodi MC.

Using a Tailored Digital Health Intervention for Family Communication and Cascade Genetic Testing in Swiss and Korean Families With Hereditary Breast and Ovarian Cancer: Protocol for the DIALOGUE Study.

JMIR Res Protoc. 2021 Jun 11;10(6):e26264. doi: 10.2196/26264.

PMID: 34114954

Moon J, Lee J, Lee DW, Lee HS, Nam DJ, Kim MJ, Kim NY, Park HS.

Postoperative pain assessment of robotic nipple-sparing mastectomy with immediate prepectoral prosthesis breast reconstruction: a comparison with conventional nipple-sparing mastectomy.

Int J Med Sci. 2021 Apr 17;18(11):2409-2416. doi: 10.7150/ijms.56997. eCollection 2021.

PMID: 33967619

Kim JH, Park S, Park HS, Park JS, Lee ST, Kim SW, Lee JW, Lee MH, Park SK, Noh WC, Choi DH, Han W, Jung SH.

Analysis of BRCA1/2 variants of unknown significance in the prospective Korean Hereditary Breast Cancer study.

Sci Rep. 2021 Apr 19;11(1):8485. doi: 10.1038/s41598-021-87792-w.

PMID: 33875706

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Comparison between Gasless and Gas-Inflated Robot-Assisted Nipple-Sparing Mastectomy.

J Breast Cancer. 2021 Apr;24(2):183-195. doi: 10.4048/jbc.2021.24.e20.

PMID: 33913274

Lim SM, Kim E, Jung KH, Kim S, Koo JS, Kim SI, Park S, Park HS, Park BW, Cho YU, Kim JY, Paik S, Kwon NJ, Kim GM, Kim JH, Kim MH, Jeon MK, Kim S, Sohn J.

Genomic landscape of extraordinary responses in metastatic breast cancer.

Commun Biol. 2021 Apr 9;4(1):449. doi: 10.1038/s42003-021-01973-x.

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Joo OY, Song SY, Park HS, Roh TS.

Single-port robot-assisted prosthetic breast reconstruction with the da Vinci SP Surgical System: first clinical report.

Arch Plast Surg. 2021 Mar;48(2):194-198. doi: 10.5999/aps.2020.01557. Epub 2021 Mar 15.

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LEE J, CHA C, AHN SG, KIM D, PARK S, BAE SJ, KIM J, PARK HS, PARK S, KIM SI, PARK BW, JEONG J.

Author Correction: Validation of Clinical Treatment Score post-5 years (CTS5) risk stratification in premenopausal breast cancer patients and Ki-67 labelling index.

Sci Rep. 2021 Mar 8;11(1):5415. doi: 10.1038/s41598-021-84773-x.

PMID: 33686136

Won SY, Park HS, Kim EK, Kim SI, Moon HJ, Yoon JH, Park VY, Park S, Kim MJ, Cho YU, Park BW.

Survival Rates of Breast Cancer Patients Aged 40 to 49 Years according to Detection Modality in Korea: Screening Ultrasound versus Mammography.

Korean J Radiol. 2021 Feb;22(2):159-167. doi: 10.3348/kjr.2019.0588. Epub 2020 Aug 28.

PMID: 32901456

LEE J, PARK HS, LEE H, LEE DW, SONG SY, LEW DH, KIM JY, PARK S, KIM SI.

Post-Operative Complications and Nipple Necrosis Rates Between Conventional and Robotic Nipple-Sparing Mastectomy.

Front Oncol. 2021 Jan 8;10:594388. doi: 10.3389/fonc.2020.594388. eCollection 2020.

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JUNG SM, RYU JM, PARK HS, PARK JS, KANG E, LEE S, LEE HB, YOUN HJ, YOO TK, KIM J, LEE JE, HAN SA, KIM D, KIM SW; KOREAN HEREDITARY BREAST CANCER STUDY GROUP. Trends in Risk-Reducing Mastectomy and Risk-Reducing Salpingo-Oophorectomy in Korean Carriers of the BRCA1/2 Mutation.

J Breast Cancer. 2020 Dec 3;23(6):647-655. doi: 10.4048/jbc.2020.23.e61. eCollection 2020 Dec. PMID: 33408890 Free PMC article.

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Validation of Clinical Treatment Score post-5 years (CTS5) risk stratification in premenopausal breast cancer patients and Ki-67 labelling index

Sci Rep. 2020 Oct 8;10(1):16850. doi: 10.1038/s41598-020-74055-3.

PMID: 33033359

HAM A, KIM MH, KIM GM, KIM JH, KIM JY, PARK HS, PARK S, CHO YU, PARK BW, KIM SI, SOHN J.

Correction to: Palbociclib use with grade 3 neutropenia in hormone receptor-positive metastatic breast cancer

Breast Cancer Res Treat. 2020 Sep;183(2):493. doi: 10.1007/s10549-020-05796-y.

PMID: 32661666

HAM A, KIM MH, KIM GM, KIM JH, KIM JY, PARK HS, PARK S, CHO YU, PARK BW, KIM SI, SOHN J.

Palbociclib use with grade 3 neutropenia in hormone receptor-positive metastatic breast cancer

Breast Cancer Res Treat. 2020 Aug;183(1):107-116.  
PMID: 32577940 doi: 10.1007/s10549-020-05750-y. Epub 2020 Jun 23.

WON SY, PARK HS, KIM EK, KIM SI, MOON HJ, YOON JH, PARK VY, PARK S, KIM MJ, CHO YU, PARK BW.

Single-port of Breast Cancer Patients Aged 40 to 49 Years according to Detection Modality in Korea: Screening Ultrasound versus Mammography  
Korean J Radiol. 2020 Aug 28. doi: 10.3348/kjr.2019.0588. Online ahead of print.  
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BAE SJ, CHA YJ, YOON C, KIM D, LEE J, PARK S, CHA C, KIM JY, AHN SG, PARK HS, PARK S, KIM SI, JEONG J.

Prognostic value of neutrophil-to-lymphocyte ratio in human epidermal growth factor receptor 2-negative breast cancer patients who received neoadjuvant chemotherapy  
Sci Rep. 2020 Aug 4;10(1):13078. doi: 10.1038/s41598-020-69965-1.  
PMID: 32753659 Free PMC article.

LEE JEEA, PARK HS, LEE HM, LEE KB, HAN DH, LEE DW

Axillary lymph node dissection using a robotic surgical system: Initial experience  
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Expression of androgen receptors in primary breast cancer.

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## **Teaching Experience**

### **Yonsei University Health System**

2021 – present Member of the CDP2023 project, Yonsei University College of Medicine

2012- present OSCE/CPX lecture, Yonsei University College of Medicine

2012-present Intern Mentor Program, Severance Hospital



2013-present Resident Mentor Program, Department of Surgery, Yonsei University College of Medicine

2017-2019 Vice chair of training committee, Department of Surgery, Yonsei University College of Medicine

## **Funds, Awards, or Grants received**

National Research Foundation of Korea Fund, research title : Development of Deep Learning Model for Guiding Breast Surgery using Data from Prospective Clinical Trials. 2022

Korea Evaluation Institute of Industrial Technology Fund, research title : Clinical application and practical validation of 3D printed, patient-customized surgical guide to the surgeries of breast cancer, renal cancer, skin cancer, and reconstruction of aorta. 2021

Korea Evaluation Institute of Industrial Technology Fund, research title : Clinical application and practical validation of 3D printed, patient-customized surgical guide to the surgeries of breast cancer, renal cancer, skin cancer, and reconstruction of aorta. 2020

MediTip, Inc. Fund, research title : A prospective, multi-center, randomized, single blind, parallel, exploratory comparative clinical trial study to assess wound healing effect and safety of MTHG0808 and Collatamp®G apply to modified radical mastectomy. 2020

Intuitive Surgical Operations, Inc. Fund, research title : A multi-center study analyzing surgical outcomes of robot-assisted nipple-sparing mastectomy with immediate reconstruction compared to conventional nipple-sparing mastectomy with immediate reconstruction. 2020

Inseok Award (Best teaching award) 2019, Yonsei University College of Medicine

Excellence of Clinical Professor 2019, Severance Hospital

A good poster presentation award, 2019, GBCC, Incheon

AZ-KHIDI oncology research grant winner 2017

Covidien Research Fund, A prospective randomized study comparing surgery using electro-surgical bipolar sealing devices and surgery using conventional electro-cautery, 2017

Korea Breast Cancer Foundation Fund, research title: Re-classification of germline variant of unknown significance of susceptibility genes related to hereditary breast cancer in Korean population, 2016,

The National Research Foundation of Korea, Development of Germline multigene panel and HORMAD1 overexpression analysis in triple negative breast cancer, 2016

Korea Breast Cancer Foundation Fund, research title: RANKL/OPG expression in patients with breast cancer

Avon Foundation-AACR International Scholar-in-Training Grant: 34<sup>th</sup> San Antonio Breast Cancer Symposium 2011

Korea Breast Cancer Foundation Fund, research title: BRCA 1/2 mutation test using next-generation gene sequencing

### **Major Presentation (2016-Present)**

2024 School of Breast Disease on AUG 24-25

2024 The 32nd Annual Meeting of the Japanese Breast Cancer Society on JUL 11-13

2024 Symposium of The Korean Association of Robotic Surgeons on MAY 9-10

2024 Global Breast Cancer Conference 2024 (GBCC 2024) in conjunction with International Endoscopic & Robotic Breast Surgery Symposium (IERBS 2024) on APR 25-27

2024 The Spring Symposium of the Korean Surgical Skill Study Group & the 32th Educational Workshop on Surgical Skill on MAR 9

2024 Seoul International Symposium of Surgical Oncology 2024 (SISSO 2024) on FEB 23-24

2023 TOPBS (Taiwan Oncoplastic Breast Surgery Society) 2023 Annual Conference on NOV 25-26

2023 Annual Congress of KSS 2023 & 75th Congress of the Korean Surgical Society (ACKSS 2023) on NOV 2-4

2023 The Autumn Symposium of the Korean Surgical Skill Study Group & the 31th Educational Workshop on Surgical Skill on OCT 7

2023 The 16th Thai Breast Symposium on AUG 9-11

2023 The 52nd Congress of KSERS & 13th International Symposium (KSERS 2023) on APR 27-29

2023 SSO 2023 – International Conference on Surgical Cancer Care on MAR 22-25

2023 Seoul International Symposium of Surgical Oncology 2023 (SISSO 2023) on FEB 10-11

2022 TOPBS (Taiwan Oncoplastic Breast Surgery Society) 2022 Annual Meeting on DEC 3-4

2022 Korean Society of Surgical Oncology(KSSO) 'The 4th Fluorescent Surgery Study Group Webinar (2022)' on NOV 15

2022 Annual Congress of KSS 2022 & 74th Congress of The Korean Surgical Society (ACKSS 2022) on NOV 3-5

2022 WCES 2022 (18th World Congress of Endoscopic Surgery) on OCT 5-8

2022 The 4th Korea Robot-Endoscopic Minimal Access Breast Surgery Study Group (KoREa-BSG) Symposium on SEP 17-18

2022 5th Busan Breast Forum on AUG 28

2022 CIBEC (Catholic International Bioskills Education Center) WEEK on JUN 19

2022 The Spring Conference of the Korean Innovative Medical Technology Society

(KIMTEC) on MAY 20

2022 Symposium of The Korean Association of Robotic Surgeons on MAY 13-14

2022 The 50th Congress of KSELS & 12th International Symposium (KSELS 2022) on APR 28-30

2022 Global Breast Cancer Conference 2022 (GBCC) on APR 28-30

2022 1st Medtronic & Samsung medical Center Breast Cadevaric Workshop on APR 2-3

2021 Seoul Breast Meeting on DEC 12

2021 The 3rd Korea Robot-Endoscopy Minimal Access Breast Surgery Study Group (KoREa-BSG) Symposium on NOV 27

2021 Korean Society of Plastic and Reconstructive Surgeons (KSPRS) on NOV 12-14 Controversies in Robot Assisted nipple-sparing mastectomy (the Severance perspectives).

2021 The 2nd half Congress of the 73rd Korean on NOV 4-6 Breast cancer – management of lymph node metastasis according to the level.

2021 Global Breast Cancer Conference 2021 (GBCC) on APR 8-10 Robotic Mastectomy in Korea

2020 Annual Congress of KSS 2020 72nd Congress of The Korean Surgical Society on NOV 05-07

2020 Global Breast Cancer Conference 2020 (GBCC) on APR 09-11 Robotic Mastectomy in Korea

2020 Seoul International Symposium of Surgical Oncology 2020 (SISSO) Surgical oncologist for one and all cancer patients on FEB 21-22 Recent trend of endoscopic breast surgery and robot-assisted mastectomy

2020 Academy of Breast Clinicians(ABC) on JAN 11-12 Survival English Writing for Scientific Publication

2019 International Endoscopic & Robotic Breast Surgery Symposium on MAY 24 – 25 Gas vs Gasless Robotic Mastectomy experience from South Korea: Future of R-NSM? The initial experience of Robotic Mastectomy with the da Vinci SP system Consensus statement of Robotic Mastectomy from world leading experts

2019 GBCC: Risk reduction strategies for women with pathogenic variants in multigene panel tests

2018 GBCC: Clinical implication of ESR1 gene mutation

2017 Global Breast Cancer Conference (GBCC): Hereditary Breast Cancer Session

2017 Hereditary Breast Cancer Symposium

2016 Hereditary Breast Cancer Symposium

2016 KOHBRA meeting

2016 School of Breast disease

2016 The 3<sup>rd</sup> Genetic Counseling Symposium of Korean Society of Medical Genetics

2016 SABCS: poster presentation

## **Societies/Memberships**

Korean Surgical Society

Korean Breast Cancer Society

Korea Robot-Endoscopy & Minimal Access Breast Surgery Study Group (KoREa-BSG)

## **Patent**

Number : 10-2017-0066300

Title: Method for Producing Xenograft Model Derived from a Patient of Breast Cancer

Number : 10-2020-0052633 (PCT pending)

Title: Apparatus and Method for Cutting and Retrieving Breast Specimen

Number : 10-2022-0035180

Title : Apparatus for Cutting Specimen

Number : 10-2022-0079154

Title : Apparatus and Method for Cutting and Retrieving Breast Specimen

Signature: \_\_\_\_\_

Date: \_\_\_\_\_