

Curriculum Vitae Patent

Hyung Seok Park, MD, PhD

Prof. Park is a breast surgeon and surgical oncologist currently working as an Associate 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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<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

- 2021 – Present: 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 – 2016.11.09 / [on]-16-CRI-00010575
2016.12.06 / SEV-CREDU-14-2 016-2088
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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).
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Patients Who Underwent Neoadjuvant Chemotherapy.
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J.
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factor receptor 2 (HER2) blockade in clinically node-positive, HER2-positive breast cancer.
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Eligibility for Adjuvant Endocrine Therapy in Breast Cancer Patients.
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Sci Rep. 2021 Apr 19;11(1):8485. doi: 10.1038/s41598-021-87792-w.

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LEE WH, CHANG JS, KIM MJ, PARK VY, YOON JH, KIM SY, KIM JY, PARK HS, KIM SI, CHO YU, PARK BW, KIM YB.
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Stage Breast Cancer

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PMID: 32411612 Free PMC article.

PARK HS, LEE J, LEE DW, SONG SY, LEW DH, IL KIM S, CHO YU.

Author Correction: Robot-assisted Nipple-sparing Mastectomy with Immediate Breast Reconstruction: An Initial Experience.

Sci Rep. 2020 Apr 30;10(1):7602. doi: 10.1038/s41598-020-64238-3.

PMID: 32355291 Free PMC article.

PARK HS, LEE JA, LEE HM, LEE KB, SONG SY, TOESCA ANTONIO

Development of Robotic Mastectomy Using a Single-Port Surgical Robot System
2020, vol.23, no.1, 93- pp. 107-112 (6 pages)

DOI : 10.4048/jbc.2020.23.e3 / ISSN 1738-6756 E-ISSN 2092-9900

KIM EJ, PARK HS, KIM JY, , KIM SI , CHO YU, PARK BW

Assessment of the Prognostic Staging System of American Joint Committee on Cancer 8th Edition for Breast Cancer: Comparisons with the Conventional Anatomic Staging System
Journal of Breast Cancer 2020, vol.23, no.1, 93- pp. 59-68 (10 pages)

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PARK HS, RYU MJ, PARK JS, IM SA, JUNG SY, KIM EK, PARK WC, MIN JW, LEE JY, YOU JY, LEE JE, KIM SW

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PMID:19887463

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

electrosurgical 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: 34th 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)

2022 KAROS on MAY 13-14

2022 KSELS 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 3rd 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: INSPECTION APPARATUS FOR BREAST

Number : 10-2022-0035180

Title : Method for producing xenograft model derived from a patient of breast cancer

Signature: _____

Date: _____