

Dukyong Yoon, M.D., M.S.

Song-Jae 819, Department of Biomedical Informatics,
Ajou University School of Medicine, 164, World cup-ro
Suwon, Republic of Korea

Telephone: +82-31-219-4476 / e-mail: d.yoon.ajou@gmail.com

EDUCATION

PhD, Department of Biomedical informatics, Ajou University School of Medicine, Suwon, Korea (Mar/2011 – Feb/2016)

MS, Department of Biomedical informatics, Ajou University School of Medicine, Suwon, Korea (Mar/2009 – Feb/2011)

MD, Department of Medicine, Ajou University School of Medicine, Suwon, Republic of Korea (Mar/2002 – Feb/2008)

PROFESSIONAL APPOINTMENTS

Assistant professor, Department of Biomedical informatics, Ajou University School of Medicine, Suwon, Korea (Mar/2016 – present)

Member of Board of Directors, The Korean Society of Medical Informatics (Feb/2016 – present)

Research assistant, Department of Biomedical informatics, Ajou University School of Medicine, Suwon, Korea (Mar/2009 – Feb/2016)

Internship, Ajou University Medical Center (Mar/2008 – Feb/2009)

ACADEMIC RECOGNITIONS

Best reviewer, *Pharmacoepidemiology and Drug Safety*, 2016

Best paper, Research Fair, Ajou University School of Medicine, Nov. 2012

Best paper, Annual Meeting, Translational Bioinformatics Conference, Oct. 2012

Best researcher, Research Fair, Ajou University, Oct. 2012

Best paper, Annual Meeting, The Korean Society of Medical Informatics, Jun. 2012

Best paper, Annual Meeting, The Korean Society of Medical Informatics, Oct. 2009

PUBLICATIONS

▪ 2018

1. Chung D, Choi JG, Jang JH, Kim TY, Byun JH, Park HJ, Lim HS, Park RW, **Yoon D**. Construction of Electrocardiogram database including 12 Lead Waveforms. *Healthc Inform Res* (accepted)
2. Heo J, Noh OK, Kim HI, Chun M, Cho O, Park RW, **Yoon D**, Oh YT. Lung dose and the potential risk of death in postoperative radiation therapy for non-small cell lung cancer: A study using the method of stratified grouping. *Radiother Oncol*. 2018 Apr 19. pii: S0167-8140(18)30162-2 [[pubmed](#)]
3. Choi MH, Lee JS, Lee SE, Lee SJ, **Yoon D**, Park RW, Hong JM, Central and cerebral haemodynamic changes after antihypertensive therapy in ischaemic stroke patients: A double-blind randomised trial. *Sci Rep*. 2018 Jan 24;8(1):1556 [[pubmed](#)]

▪ 2017

1. You SC, Park H, **Yoon D**, Park S, Joung B, Park RW, Olmesartan is not associated with the risk of enteropathy: a Korean nationwide observational cohort study. *Korean J Intern Med*. 2017 (epub) [[pubmed](#)]

2. **Yoon D**, Lee S, Kim, TY, Ko JG, Chung WY, Park RW. System for Collecting Biosignal Data from Multiple Patient Monitoring Systems. *Healthc Inform Res.* 2017 Oct; 23(04) 333-337 [[pubmed](#)]
3. Park J, Nam W, Kim TY, Lee S, **Yoon D**, Ko JG. Motion-oriented noisy physiological signal refining using embedded sensing platforms. *Conf Proc IEEE Eng Med Biol Soc.* 2017 Jul;2017:4562-4565. [[pubmed](#)]
4. Lee S, Choi J, Kim HS, Kim GJ, Lee KH, Park CH, Han J, **Yoon D**, Park MY, Park RW, Kang HR, Kim JH, Standard-based comprehensive detection of adverse drug reaction signals from nursing statements and laboratory results in electronic health records. *J Am Med Inform Assoc.* 2017 Jul 1;24(4):697-708 [[pubmed](#)]
5. Tham MY, Ye Q, Ang PS, Fan LY, **Yoon D**, Park RW, Ling ZJ, Yip JW, Tai BC, Evans S, Sung C, Application and Optimisation of the Comparison on Extreme Laboratory Tests (CERT) Algorithm for Detection of Adverse Drug Reactions: Transferability Across National Boundaries. *Pharmacoepidemiol Drug Saf (Epub).* [[pubmed](#)]
6. Kim YG, **Yoon D (co-first)**, Park SY, Han SJ, Kim DJ, Lee KW, Park RW, Kim HJ, Dipeptidyl peptidase-4 inhibitors and risk of heart failure in patients with type 2 diabetes mellitus: A population-based cohort study. *Circ Heart Fail.* 2017 Sep;10(9). pii: e003957 [[pubmed](#)]
7. Kim YS, **Yoon D (co-first)**, Byun JH, Park H, Lee A, Kim IH, Lee S, Lim HS, Park RW, Extracting information from free-text electronic patient records to identify practice-based evidence of the performance of coronary stents. *PLoS One.* 2017 Aug 11;12(8):e0182889 [[pubmed](#)]
8. **Yoon D**. What We Need to Prepare for the Fourth Industrial Revolution. *Healthc Inform Res.* 2017 Apr; 23(02) 75-76 [[Link](#)]
9. Kim YG, Shin D, Park MY, Lee S, Jeon MS, **Yoon D (co-corresponding)**, Park RW, ECG-ViEW II, a freely accessible electrocardiogram database. *PLoS One.* 2017 Apr 24;12(4):e0176222 [[pubmed](#)]
10. Kim SW, Noh OK, Kim JH, Chun M, Oh YT, Kang SY, Lee HY, Park RW, **Yoon D**, Adjuvant concurrent chemoradiotherapy with low-dose daily cisplatin for extrahepatic bile duct cancer. *Cancer Chemother Pharmacol.* 2017 Apr 26 [[pubmed](#)]
11. Kim YG, Jung K, Park YT, Shin D, Cho SY, **Yoon D (co-corresponding)**, Park RW, Rate of electronic health record adoption in South Korea: a nation-wide survey. *Int J Med Inform.* 2017 May;101:100-107 [[Link](#)]
12. Kim YG, Byun JH, **Yoon D**, Jeon JY, Han SJ, Kim DJ, Lee KW, Park RW, Kim HJ, Renal protective effect of DPP-4 inhibitors in type 2 diabetes mellitus patients: A cohort study, *J Diabetes Res.* *J Diabetes Res.* 2016;2016:1423191. [[pubmed](#)]

▪ **2016**

1. **Yoon D**, Sheen SS, Lee S, Choi YJ, Park RW, Lim HS, Statins and Risk for New-onset Diabetes Mellitus: A Real-World Cohort Study Using a Clinical Research Database. *Medicine* 2016 Nov;95(46):e5429 [[pubmed](#)]
2. Jung K, Lee CJ, Park RW, **Yoon D**, Jung S, Kim Y, Moon J, Huh Y, Kwon J, The Best Prediction Model for Trauma Outcomes of the Current Korean Population: a Comparative Study of Three Injury Severity Scoring Systems. *Korean J Crit Care Med* 2016 31(3): 221-228 [[pubmed](#)]
3. Hwang Y, **Yoon D (co-first)**, Ahn EK, Hwang H, Park RW, Provider risk factors for medication administration error alerts: analyses of a large-scale closed-loop medication administration system using RFID and barcode. *Pharmacoepidemiol Drug Saf.* 2016 Dec;25(12):1387-1396. [[pubmed](#)]
4. Shin D, **Yoon D (co-first)**, Lim SG, Hong JM, Park RW, Lee JS, Comparison of the risk of gastrointestinal bleeding among different statin exposures with concomitant

- administration of warfarin: electronic health record-based retrospective cohort study. *PLoS One*. 2016 Jul 7;11(7):e0158130 [[pubmed](#)]
5. Chung WY, **Yoon D**, Lee KS, Jung YJ, Kim YS, Sheen SS, Park KJ. The Usefulness of Serum CXCR3 Ligands for Evaluating the Early Treatment Response in Tuberculosis: A Longitudinal Cohort Study. *Medicine (Baltimore)*. 2016 Apr;95(17):e357 [[pubmed](#)]
 6. Lim SG, Park RW, Shin SJ, **Yoon D**, Kang JK, Hwang JC, Kim SS, Kim JH, Lee KM, The relationship between the failure to eradicate *Helicobacter pylori* and previous antibiotics use. *Dig Liver Dis*. 2016 Apr;48(4):385-90 [[pubmed](#)]
 7. **Yoon D**, Schuemie MJ, Kim JH, Kim DK, Park MY, Ahn EK, Jung EY, Park DK, Cho SY, Shin D, Hwang Y, Park RW, A normalization method for combination of laboratory test results from different electronic healthcare databases in a distributed research network. *Pharmacoepidemiol Drug Saf*. 2016 Mar;25(3):307-16 [[pubmed](#)]
 8. Lee HW, Noh OK, Oh YT, Choi JH, Chun M, Kim HI, Heo J, Ahn MS, Park SY, Park RW, **Yoon D**, Radiation Therapy-First Strategy After Surgery With or Without Adjuvant Chemotherapy in Stage IIIA-N2 Non-Small Cell Lung Cancer. *Int J Radiat Oncol Biol Phys*. 2016 Mar 1;94(3):621-7 [[pubmed](#)]
 9. **Yoon D**, Ahn EK, Park MY, Cho SY, Ryan P, Schuemie MJ, Shin D, Park H, Park RW, Conversion and Data Quality Assessment of Electronic Health Record Data at a Korean Tertiary Teaching Hospital to a Common Data Model for Distributed Network Research. *Healthc Inform Res*. 2016 Jan;22(1):54-8 [[pubmed](#)]
- **2015**
 1. Sheen SS, Park RW, **Yoon D**, Shin GT, Kim H, Park IW. The Model for End-stage Liver Disease score is potentially a useful predictor of hyperkalemia occurrence among hospitalized angiotensin receptor blocker users, *J Clin Pharm Ther*. 2015 Feb;40(1):48-54 [[pubmed](#)]
 - **2014**
 1. Yi B, Kang DK, **Yoon D**, Jung YS, Kim KS, Yim H, Kim TH. Is there any correlation between model-based perfusion parameters and model-free parameters of time-signal intensity curve on dynamic contrast enhanced MRI in breast cancer patients?, *Eur Radiol*. 2014 May;24(5):1089-96 [[pubmed](#)]
 2. Oh YJ, Park RW, **Yoon D**, Kim M, Han SS, Jang HR, Kim H, Heo NJ, Park SK, Lee H, Joo KW, Lim CS, Kim YS, Kim DK. Non-linear association of serum 25-hydroxyvitamin D with urinary albumin excretion rate in normoalbuminuric subjects, *BMC Nephrol*. 2014 Jun 24;15:97 [[pubmed](#)]
 - **2013**
 1. Park IW, Sheen SS, **Yoon D**, Lee SH, Shin GT, Kim H, Park RW. Onset time of hyperkalaemia after angiotensin receptor blocker initiation: when should we start serum potassium monitoring?, *J Clin Pharm Ther*. 2014 Feb;39(1):61-8 [[pubmed](#)]
 2. **Yoon D**, Park I, Schuemie MJ, Park MY, Kim JH, Park RW. A quantitative method for assessment of prescribing patterns using electronic health records, *PLoS One*. 2013 Oct 10;8(10):e75214 [[pubmed](#)]
 3. Yim SY, **Yoon D (co-first)**, Park MC, Lee IJ, Kim JH, Lee MA, Kwack KS, Lee JD, Lee JH, Soh EY, Na YI, Park RW, Lee K, Jun JB. Integrative analysis of congenital muscular torticollis: from gene expression to clinical significance, *BMC Med Genomics*. 2013;6 Suppl 2:S10 [[pubmed](#)]
 - **2012**

1. Park MY, **Yoon D (co-first)**, Choi NK, Lee J, Lee K, Lim HS, Park BJ, Kim JH, Park RW. Construction of an Open-Access QT Database for Detecting the Proarrhythmia Potential of Marketed Drugs: ECG-ViEW, Clin Pharmacol Ther. 2012 Sep;92(3):393-6 [[pubmed](#)]
 2. Park I, Sheen SS, Lim HS, **Yoon D**, Park MY, Lee SH, Shin GT, Kim H, Park RW. Comparison of hyperkalemic risk in hospitalized patients treated with different angiotensin receptor blockers: a retrospective cohort study using a Korean clinical research database, Am J Cardiovasc Drugs. 2012 Aug;12(4):255-62 [[pubmed](#)]
 3. **Yoon D**, Park MY, Choi NK, Park BJ, Kim JH, Park RW. Detection of Adverse Drug Reaction Signals Using an Electronic Health Records Database: Comparison of the Laboratory Extreme Abnormality Ratio (CLEAR), Clin Pharmacol Ther. 2012 Mar;91(3):467-74. [[pubmed](#)]
 4. **Yoon D**, Chang BC, Kang SW, Bae H, Park RW. Adoption of Electronic Health Records in Korean Tertiary Teaching and General Hospitals, Int J Med Inform. 2012 Mar;81(3):196-203 [[pubmed](#)]
- **2011**
1. **Yoon D**, Kim H, Suh-Kim H, Park RW, Lee K. Differentially co-expressed interacting protein pairs discriminate samples under distinct stages of HIV type 1 infection, BMC Syst Biol. 2011 Dec 14;5 Suppl 2:S1 [[pubmed](#)]
 2. Park MY, **Yoon D (co-first)**, Lee K, Kang SY, Park I, Lee SH, Kim W, Kam HJ, Lee YH, Kim JH, Park RW. A novel algorithm for detection of adverse drug reaction signals using a hospital electronic medical record database, Pharmacoepidemiol Drug Saf. 2011 Jun;20(6):598-607 [[pubmed](#)]
-