

• **Name:** Pyoeng Gyun CHOE, M.D., Ph.D.

• **Current Position:**

Clinical Associate Professor,
Division of Infectious Diseases
Department of Internal Medicine
Seoul National University Hospital

• **Country:** Korea

• **Educational Background:**

1996 - 1998 Premedical Course, Seoul National University College of Natural Science
1998 - 2002 M.D., Seoul National University College of Medicine
2006 - 2011 M.S. in Medicine, Seoul National University College of Medicine
2011 - 2017 Ph.D. in Medicine, Seoul National University College of Medicine

• **Professional Experiences:**

POSTGRADUATE TRAINING:

March 2002 - Feb 2003:

Internship at the Seoul National University Hospital

March 2003 - Feb 2007:

Residency at the Dept. of Internal Medicine,
Seoul National University Hospital

Apr 2007 - May 2007:

Field Epidemiological Training program at the Korean Centers for
Disease Control

May 2010 - Feb 2011:

Fellow, Division of Infectious Diseases,
Department of Internal Medicine, Seoul National University Hospital

Nov 2014: Ebola Treatment Unit (ETU) Training Course

Centers for Disease Control and Prevention

ACADEMIC APPOINTMENT:

Sep 2011 – Present

Adjunct Assistant/Associate Professor
Department of Internal Medicine
Seoul National University College of Medicine

HOSPITAL APPOINTMENT:

Mar 2011 - Present:

Clinical Assistant/Associate Professor,
Division of Infectious Diseases
Department of Internal Medicine, Seoul National University Hospital

Sep 2012 - Present:

Chief, Isolation Unit

Seoul National University Hospital

Sep 2016 - Present:

Professor-in-charge for infection control
Infection Control Office
Seoul National University Hospital

• **Professional Organizations:**

May 2007 - Apr 2009:

Epidemic Intelligence Service Officer
Division of Public health
Jeonnam Provincial Government

May 2009 - Apr 2010:

Epidemic Intelligence Service Officer
Division of AIDS & TB Control
Korea Centers for Disease Control

Sep 2016 – Present

Committee Member
Korea National Healthcare-associated Infection Surveillance System

• **Main Scientific Publications:**

- 1) **Choe PG**, Song JS, Song KH, Jeon JH, Park WB, Park KU, Park SW, Kim NJ, Oh MD, Kim HB. Usefulness of routine lumbar puncture in non-HIV patients with latent syphilis of unknown duration. *Sex Transm Infect* 2010;86:39-40
- 2) Park WB*, **Choe PG***, Song KH, Jeon JH, Park SW, Kim HB, Kim NJ, Oh MD, Choe KW. Genetic factors influencing severe atazanavir-associated hyperbilirubinemia in a population with low UDP-glucuronosyltransferase 1A1*28 allele frequency. *Clin Infect Dis* 2010;51:101-106 (*Equally contributed)
- 3) **Choe PG**, Park WB, Song JS, Song KH, Jeon JH, Park SW, Kim HB, Chang KH, Oh MD, Choe KW, Kim NJ. Spectrum of intracranial parenchymal lesions in patients with human immunodeficiency virus infection in the Republic of Korea. *J Korean Med Sci* 2010;25:1005-1010
- 4) **Choe PG**, Park WB, Song JS, Kim NH, Song KH, Park SW, Kim HB, Kim NJ, Oh MD. Incidence of atazanavir-associated hyperbilirubinemia in Korean HIV patients: 30 months follow-up results in a population with low UDP-glucuronosyltransferase 1A1*28 allele frequency. *J Korean Med Sci* 2010;25:1427-1430
- 5) **Choe PG**, Park WB, Song JS, Kim NH, Park JY, Song KH, Park SW, Kim HB, Kim NJ, Oh MD. Late presentation of HIV disease and its associated factors among newly diagnosed patients before and after abolition of a government policy of mass mandatory screening. *J Infect* 2011;63:60-65
- 6) **Choe PG**, Choi HJ, Kim NH, Park WB, Song KH, Bang JH, Kim ES, Park SW, Kim HB, Oh MD, Kim NJ. High prevalence of low bone mass and associated factors in Korean HIV-positive male patients. *J Int AIDS Soc* 2014;17:18773

- 7) **Choe PG**, Kang YM, Kim G, Park WB, Park SW, Kim HB, Oh MD, Kim EC, Kim NJ. Diagnostic value of direct fluorescence antibody staining for detecting *Pneumocystis jirovecii* in expectorated sputum from patients with HIV infection. *Med Mycol* 2014;52:326-30
- 8) Oh MD*, **Choe PG***, Oh HS, Park WB, Lee SM, Park J, Lee SK, Song JS, Kim NJ. Middle East Respiratory Syndrome Coronavirus Superspreading Event Involving 81 Persons, Korea 2015. *J Korean Med Sci.* 2015;30(11):1701-5 (*Equally contributed)
- 9) Nam EY, Na SH, Kim SY, Yoon D, Kim CJ, Park KU, Min SK, Lee SE, **Choe PG***. Infected Aortic Aneurysm caused by Mycobacterium bovis after Intravesical Bacillus Calmette-Guerin Treatment for Bladder Cancer. *Infect Chemother.* 2015;47(4):256-60 (*Corresponding author)
- 10) **Choe PG**, Park J, Park WB, Kim TM, Song KH, Bang JH, Kim ES, Park SW, Kim HB, Kim NJ, Oh MD, Choe KW. Immune reconstitution inflammatory syndrome versus non-immune reconstitution inflammatory syndrome lymphoma in HIV patients on antiretroviral therapy. *Int J STD AIDS.* 2016;27(11):1013-5
- 11) Kim ES*, **Choe PG***, Park WB, Oh HS, Kim EJ, Nam EY, Na SH, Kim M, Song KH, Bang JH, Park SW, Kim HB, Kim NJ, Oh MD. Clinical progression and cytokine profiles of Middle East respiratory syndrome coronavirus infection. *J Korean Med Sci* 2016;31(11):1717-25 (*Equally contributed)
- 12) **Choe PG**, Perera RAPM, Park WB, Song KH, Bang JH, Kim ES, Kim HB, Ko LWR, Park SW, Kim NJ, Lau EHY, Poon LLM, Peiris M, Oh MD. MERS-CoV Antibody Responses 1 Year after Symptom Onset, South Korea. *Emerg Infect Dis* 2017;23(7):1079-84
- 13) **Choe PG**. Renal disease in persons infected with Human immunodeficiency virus in Korea. *Infect Chemother* 2017;49(3):238-40
- 14) Park WB, **Choe PG**, Jo JH, Kim SH, Bang JH, Kim HB, Kim NJ, Oh MD, Choe KW. Immune reconstitution inflammatory syndrome in the first year after HAART: influence on long-term clinical outcome. *AIDS* 2006;20:2390-2392
- 15) Park WB, **Choe PG**, Kim SH, Jo JH, Bang JH, Kim HB, Kim NJ, Oh M, Choe KW. One-year adherence to clinic visits after highly active antiretroviral therapy: a predictor of clinical progress in HIV patients. *J Intern Med* 2007;261:268-275
- 16) Park WB, **Choe PG**, Jo JH, Kim SH, Bang JH, Kim HB, Kim NJ, Oh MD, Choe KW. Tuberculosis manifested by immune reconstitution inflammatory syndrome during HAART. *AIDS* 2007;23:875-877
- 17) Park WB, **Choe PG**, Jo JH, Kim SH, Bang JH, Kim HB, Kim NJ, Oh MD, Choe KW. Amebic liver abscess in HIV-infected patients, Republic of Korea. *Emerg Infect Dis* 2007;13:516-517
- 18) Park WB, **Choe PG**, Kim SH, Jo JH, Bang JH, Kim HB, Kim NJ, Oh MD, Choe KW. Early modification of initial HAART regimen associated with poor clinical outcome in HIV patients. *AIDS Res Hum Retroviruses* 2007;23:794-800

- 19) Kim ES, Song JS, Lee HJ, **Choe PG**, Park KH, Cho JH, Park WB, Kim SH, Bang JH, Kim DM, Park KU, Shin S, Lee MS, Choi HJ, Kim NJ, Kim EC, Oh MD, Kim HB, Choe KW. A survey of community-associated methicillin-resistant *Staphylococcus aureus* in Korea. *J Antimicrob Chemother* 2007;60:1108-1114
- 20) Park WB, **Choe PG**, Song KH, Lee S, Jang HC, Jeon JH, Park SW, Park MH, Oh MD, Choe KW. Should HLA-B*5701 screening be performed in every ethnic group before starting abacavir? *Clin Infect Dis* 2009;48:365-367
- 21) Lee S, **Choe PG**, Song KH, Park SW, Kim HB, Kim NJ, Kim EC, Park WB, Oh MD. Is cefazolin inferior to nafcillin for treatment of methicillin-susceptible *Staphylococcus aureus* bacteremia? *Antimicrob Agents Chemother* 2011;66:5122-5126
- 22) Song JS, **Choe PG**, Song KH, Park WB, Park SW, Kim HB, Oh MD, Kim EC, Kim NJ. Risk factors for 30-day mortality in adult patients with pneumococcal bacteremia and the impact of antimicrobial resistance on clinical outcomes. *Epidemiol Infect* 2011;12:1-10
- 23) Park WB, Kim NH, Kim KH, Lee SH, Nam WS, Yoon SH, Song KH, **Choe PG**, Kim NJ, Jang IJ, Oh MD, Yu KS. The effect of therapeutic drug monitoring on safety and efficacy of voriconazole in invasive fungal infections: a randomized controlled trial. *Clin Infect Dis*. 2012;55(8):1080-7.
- 24) Jung Y, Lee MJ, Shin HY, Kim NH, Hwang JH, Park J, **Choe PG**, Park WB, Kim ES, Park SW, Park KU, Kim HB, Kim NJ, Kim EC, Song KH, Oh MD. Differences in characteristics between healthcare-associated and community-acquired infection in community-onset *Klebsiella pneumoniae* bloodstream infection in Korea. *BMC Infect Dis*. 2012;12(1):239
- 25) Park J, Kim TM, Hwang JH, Kim NH, **Choe PG**, Song KH, Kim ES, Park SW, Kim HB, Kim NJ, Park WB, Oh MD. Risk factors for febrile neutropenia during chemotherapy for HIV-related lymphoma. *J Korean Med Sci*. 2012;27(12):1468-71
- 26) Kim NH, Hwang JH, Song KH, **Choe PG**, Kim ES, Park SW, Kim HB, Kim NJ, Park WB, Oh MD. Tigecycline in carbapenem-resistant *Acinetobacter baumannii* bacteraemia: Susceptibility and clinical outcome. *Scand J Infect Dis*. 2013;45(4):315-9
- 27) Kim CJ, Kim NH, Song KH, **Choe PG**, Kim ES, Park SW, Kim HB, Kim NJ, Kim EC, Park WB, Oh MD. Differentiating rapid- and slow-growing mycobacteria by difference in time to growth detection in liquid media. *Diagn Microbiol Infect Dis*. 2013;75(1):73-6
- 28) Hwang JH, **Choe PG**, Kim NH, Bang JH, Song KH, Park WB, Kim ES, Park SW, Kim HB, Kim NJ, Oh MD, Choe KW. Incidence and risk factors of tuberculosis in patients with human immunodeficiency virus infection. *J Korean Med Sci*. 2013;28(3):374-7
- 29) Bang JH, Jung Y, Cheon S, Kim CJ, Song KH, **Choe PG**, Park WB, Kim ES, Park SW, Kim HB, Oh MD, Lee HS, Kim NJ. *Pseudomonas aeruginosa* bacteremia in patients with liver cirrhosis: a comparison with bacteremia caused by Enterobacteriaceae. *BMC Infect Dis*. 2013;13:332
- 30) Kang CK, Kim ES, Song KH, Kim HB, Kim TS, Kim NH, Kim CJ, **Choe PG**, Bang JH, Park WB, Park KU, Park SW, Kim NJ, Kim EC, Oh MD. Can a routine follow-up blood

culture be justified in *Klebsiella pneumoniae* bacteremia? A retrospective case-control study. *BMC Infect Dis*. 2013;13:365

- 31) Kim NH, Kang YM, Kim G, **Choe PG**, Song JS, Lee KH, Seong BL, Park WB, Kim NJ, Oh MD. An open-label, single arm, phase III clinical study to evaluate the efficacy and safety of CJ smallpox vaccine in previously vaccinated healthy adults. *Vaccine*. 2013;31:5239-42
- 32) Kim KH, Yi J, Kim G, Choi SJ, Jun KI, Kim NH, **Choe PG**, Kim NJ, Kee JK, Oh MD. Severe fever with thrombocytopenia syndrome, South Korea, 2012. *Emerg Infect Dis* 2013;19:1892-4
- 33) Jung Y, Song KH, Cho Je, Kim HS, Kim NH, Kim TS, **Choe PG**, Chung JY, Park WB, Bang JH, Kim ES, Park KU, Park SW, Kim HB, Kim NJ, Oh MD. Area under the concentration-time curve to minimum inhibitory concentration ratio as a predictor of vancomycin treatment outcome in methicillin-resistant *Staphylococcus aureus* bacteremia. *Int J Antimicrob Agents* 2014;43:179-83
- 34) Kim ES, Kim HB, Kim G, Kim KH, Park KH, Lee S, Choi YH, Yi J, Kim CJ, Song KH, **Choe PG**, Kim NJ, Lee YS, Oh MD, KIDN Study Group. Clinical and epidemiological factors associated with methicillin resistance in community-onset invasive *Staphylococcus aureus* infections: prospective multicenter cross-sectional study in Korea. *PLoS One* 2014;9:e114127.
- 35) Kim KH, Yi J, Oh WS, Kim NH, Choi SJ, **Choe PG**, Kim NJ, Lee JK, Oh MD. Human granulocytic anaplasmosis, South Korea, 2013. *Emerg Infect Dis* 2014;20:1708-11.
- 36) Kim MJ, Song KH, Kim NH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Lee HS, Oh MD, Kim NJ. Clinical outcomes of spontaneous bacterial peritonitis due to extended-spectrum beta-lactamase-producing *Escherichia coli* or *Klebsiella pneumoniae*: a retrospective cohort study. *Hepatol Int* 2014; 8: 582-7.
- 37) Lee S, Kwon KT, Kim HI, Chang HH, Lee JM, **Choe PG**, Park WB, Kim NJ, Oh MD, Song DY, Kim SW. Clinical implications of cefazolin inoculum effect and β -lactamase type on methicillin-susceptible *Staphylococcus aureus* bacteremia. *Microb Drug Resist* 2014;20:568-74
- 38) Kang CK, Cho JE, Choi YJ, Jung Y, Kim NH, Kim CJ, Kim TS, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park KU, Park SW, Kim NJ, Oh MD, Kim HB. agr dysfunction affects staphylococcal cassette chromosome mec type-dependent clinical outcomes in methicillin-resistant *Staphylococcus aureus* bacteremia. *Antimicrob Agents Chemother* 2015;59:3125-32
- 39) Kang SJ, Jang HC, Jung SI, **Choe PG**, Park WB, Kim CJ, Song KH, Kim ES, Kim HB, Oh MD, Kim NJ, Park KH. Clinical characteristics and risk factors of pyogenic spondylitis caused by gram-negative bacteria. *PLoS One* 2015;10:e0127126
- 40) Kim CJ, Kang SJ, **Choe PG**, Park WB, Jang HC, Jung SI, Song KH, Kim ES, Kim HB, Oh MD, Park KH, Kim NJ. Which tissues are best for microbiological diagnosis in patients with pyogenic vertebral osteomyelitis undergoing needle biopsy? *Clin Microbiol Infect* 2015;21:931-5.

- 41) Kim JW, Min CK, Mun YC, Park Y, Kim BS, Nam SH, Koh Y, Kwon JH, **Choe PG**, Park WB, Kim I. Varicella-zoster virus-specific cell-mediated immunity and herpes zoster development in multiple myeloma patients receiving bortezomib- or thalidomide-based chemotherapy. *J Clin Virol* 2015;73:64-9.
- 42) Kim MK, Nam EY, Na SH, Shin MJ, Lee HS, Kim NH, Kim CJ, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim NJ, Oh MD, Kim HB. Discrepancy in perceptions regarding patient participation in hand hygiene between patients and health care workers. *Am J Infect Control* 2015;43:510-5.
- 43) Kim NH, Koo HL, **Choe PG**, Cheon S, Kim MS, Lee MJ, Jung YH, Park WB, Song KH, Kim ES, Bang JH, Kim HB, Park SW, Kim NJ, Oh MD, Kim EC. Inappropriate Continued Empirical Vancomycin Use in a Hospital with a High Prevalence of Methicillin-Resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother* 2015;59:811-7
- 44) Lee MJ, Kim M, Kim NH, Kim CJ, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim NJ, Oh MD, Kim HB. Why is asymptomatic bacteriuria overtreated?: A tertiary care institutional survey of resident physicians. *BMC Infect Dis* 2015;15:289
- 45) Park SW, Perera RA, **Choe PG**, Lau EH, Choi SJ, Chun JY, Oh HS, Song KH, Bang JH, Kim ES, Kim HB, Park WB, Kim NJ, Poon LL, Peiris M, Oh MD. Comparison of serological assays in human Middle East respiratory syndrome (MERS)-coronavirus infection. *Euro Surveill* 2015;20:pii=30042
- 46) Song KH, Kim HB, Kim HS, Lee MJ, Jung Y, Kim G, Hwang JH, Kim NH, Kim M, Kim CJ, **Choe PG**, Chung JY, Park WB, Kim ES, Park KU, Kim NJ, Kim EC, Oh MD. Impact of area under the concentration-time curve to minimum inhibitory concentration ratio on vancomycin treatment outcomes in methicillin-resistant *Staphylococcus aureus* bacteraemia. *Int J Antimicrob Agents* 2015;46:689-95
- 47) Park WB, Perera RA, **Choe PG**, Lau EH, Choi SJ, Chun JY, Oh HS, Song KH, Bang JH, Kim ES, Kim HB, Park SW, Kim NJ, Man Poon LL, Peiris M, Oh MD. Kinetics of serologic responses to MERS coronavirus infection in human, South Korea. *Emerg Infect Dis.* 2015;21:2186-9.
- 48) Na SH, Kim CJ, Kim M, Park JS, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Park KU, Kim NJ, Oh MD, Kim HB. Impact of the multiplex polymerase chain reaction in culture-positive samples on appropriate antibiotic use in patients with *Staphylococcus* bacteremia *Diagn Microbiol Infect Dis.* 2016;84:353-7
- 49) Nam EY, Song KH, Kim NH, Kim M, Kim CJ, Lee JO, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Bang SM, Kim NJ, Oh MD. Differences in characteristics between first and breakthrough neutropenic fever after chemotherapy in patients with hematologic disease. *Int J Infect Dis.* 2016;44:4-7
- 50) Park WB, Kwon NJ, **Choe PG**, Choi SJ, Oh HS, Lee SM, Chong H, Kim JI, Song KH, Bang JH, Kim ES, Kim HB, Park SW, Kim NJ, Oh MD. Isolation of Middle East Respiratory Syndrome coronavirus from a patient of the 2015 Korean outbreak. *J Korean Med Sci.* 2016;31:315-20.

- 51) Yoon D, Koo HL, **Choe PG**, Song KH, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Oh MD, Kim NJ. The purpose of appropriateness of carbapenem use in a single university hospital, 2009-2013. *Expert Rev Clin Pharmacol*. 2016;9:863-5.
- 52) Kim CJ, Song JS, Choi SJ, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Kim NJ, Kim EC, Oh MD. Serotype distribution and antimicrobial susceptibilities of invasive *Streptococcus pneumoniae* isolates from adults in Korea from 1997 to 2012. *J Korean Med Sci*. 2016;31:715-23.
- 53) Park WB, Cho JY, Park SI, Kim EJ, Yoon S, Yoon SH, Lee JO, Koh Y, Song KH, **Choe PG**, Yoo KS, Kim ES, Bang SM, Kim NJ, Kim I, Oh MD, Kim HB, Song SH. Effectiveness of increasing the frequency of posaconazole syrup administration to achieve optimal plasma concentrations in patients with haematological malignancy. *Int J Antimicrob Agents*. 2016;48(1):106-10.
- 54) Jang HC, Park WB, Kim UJ, Chun JY, Choi SJ, **Choe PG**, Jung SI, Jee Y, Kim NJ, Choi EH, Oh MD. First Imported Case of Zika Virus Infection into Korea. *J Korean Med Sci*. 2016;31:1173-7.
- 55) Kim M, Song KH, Kim CJ, Song M, **Choe PG**, Park WB, Bang JH, Hwang H, Kim ES, Park SW, Kim NJ, Oh MD, Kim HB. Electronic Alerts with Automated Consultations Promote Appropriate Antimicrobial Prescriptions. *PLoS One*. 2016;11:e0160551.
- 56) Lee SH, Park WB, Lee S, Park S, Kim SW, Lee JM, Chang HH, Kwon KT, **Choe PG**, Kim NJ, Kim HB, Oh MD. Association between type A bla_Z Gene Polymorphism and Cefazolin Inoculum Effect in Methicillin-Susceptible Staphylococcus aureus. *Antimicrob Agents Chemother*. 2016;60(11):6928-32
- 57) Oh MD, Park WB, **Choe PG**, Choi SJ, Kim JI, Chae J, Park SS, Kim EC, Oh HS, Kim EJ, Nam EY, Na SH, Kim DK, Lee SM, Song KH, Bang JH, Kim ES, Kim HB, Park SW, Kim NJ. Viral Load Kinetics of MERS Coronavirus Infection. *N Engl J Med* 2016;375(13):1303-5
- 58) Kim CJ, Kim EJ, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Oh MD, Kim NJ. Comparison of characteristics of culture-negative pyogenic spondylitis and tuberculous spondylitis: a retrospective study. *BMC Infect Dis*. 2016 Oct 12;16(1):560
- 59) Na SH, Kim EJ, Nam EY, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Oh MD, Kim NJ. Comparison of clinical characteristics and outcomes of spontaneous bacterial peritonitis and culture negative neutrocytic ascites. *Scand J Gastroenterol*. 2017;52(2):199-203.
- 60) Kim MJ, Nam EY, Park KU, **Choe PG**, Park WB, Song KH, Kim ES, Kim HB, Oh MD, Kim NJ. Limited usefulness of the interferon-gamma release assay in patients with HIV infections and negative tuberculin skin test results in a country with an intermediate tuberculosis burden. *Infect Dis (Lond)* 2017;49(5):420-2
- 61) Keam B, Kim MK, Choi Y, Choi SJ, **Choe PG**, Lee KH, Kim TM, Kim TY, Oh DY, Kim DW, Im SA, Kim NJ, Heo DS, Park WB, Oh MD. Optimal timing of influenza vaccination

during 3-week cytotoxic chemotherapy cycles. *Cancer*. 2017;123(5):841-8.

- 62) Kang CK, Song KH, **Choe PG**, Park WB, Bang JH, Kim ES, Park SW, Kim HB, Kim NJ, Cho SI, Lee JK, Oh MD. Clinical and Epidemiologic Characteristics of Spreaders of Middle East Respiratory Syndrome Coronavirus during the 2015 Outbreak in Korea. *J Korean Med Sci*. 2017;32(5):744-9.
- 63) Lee MJ, Kim KH, Yi J, Choi SJ, **Choe PG**, Park WB, Kim NJ, Oh MD. *In vitro* antiviral activity of ribavirin against severe fever with thrombocytopenia syndrome virus. *Korean J Intern Med*. 2017;32(4):731-7.
- 64) Yoon D, Shin SH, Jang HC, Kim ES, Song EH, Moon SM, Shin SY, **Choe PG**, Sung JJ, Choi EH, Oh MD, Jee Y, Kim NJ. Epidemiology and Clinical Characteristics of Zika Virus Infections Imported into Korea from March to October 2016. *J Korean Med Sci*. 2017;32(9):1440-4.
- 65) Kang CK, Kim YK, Jung SI, Park WB, Song KH, Park KH, **Choe PG**, Jang HC, Lee S, Kim YS, Kwak YG, Kwon KT, Kiem S, Kim CJ, Kim ES, Kim HB. agr functionality affects clinical outcomes in patients with persistent methicillin-resistant *Staphylococcus aureus* bacteraemia. *Eur J Clin Microbiol Infect Dis*. 2017;36(11):2187-91
- 66) Park H, Youk J, Kim HR, Koh Y, Kwon JH, Yoon SS, Park S, Choe PG, Kim NJ, Oh MD, Park WB, Kim I. Infectious complications in multiple myeloma receiving autologous stem cell transplantation in the past 10 years. *Int J Hematol*. 2017 Aug 20. [Epub ahead of print]
- 67) Kim EJ, Yu KS, Na SH, Nam EY, Oh HS, Kim M, Yoon SH, Lee JO, Koh Y, Song KH, Choe PG, Cho JY, Song SH, Kim ES, Kim HB, Bang SM, Kim NJ, Oh MD, Kim I, Park WB. Risk factors for suboptimal drug concentration of posaconazole oral suspension in patients with hematologic malignancy. *J Mycol Med*. 2017 Aug 31. [Epub ahead of print]