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- **Educational Background:**

- 2014.3. - 2020.2. **Ph.D.** in Department of Internal Medicine, Graduate School of Chungnam National University, Daejeon, Korea
- 2011.3. - 2013.2. **M.S.** in Department of Internal Medicine, Graduate School of Chungnam National University, Daejeon, Korea
- 2002.3. - 2008.2. **M.D.** in College of Medicine, Chungnam National University, Daejeon, Korea

- **Professional Experience:**

- 2020.3- Present **Assistant Professor**, Department of Internal Medicine, Chungnam National University College of Medicine, Daejeon, Korea
- 2016.3 – 2020.2 **Clinical Assistant Professor**, Department of Internal Medicine, Chungnam National University Hospital, Daejeon, Korea
- 2015.3. - 2016.2. **Clinical Fellow**, Division of Oncology, Department of Internal Medicine, Asan medical center, Seoul, Korea
- 2014.3. - 2015.2. **Clinical Fellow**, Division of Hematology/Oncology, Department of Internal Medicine, Chungnam National University Hospital, Daejeon, Korea
- 2010.3. - 2014.2. **Residency** in Department of Internal medicine, Chungnam National University Hospital
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- **Professional Organizations:**

Member of KSMO, ESMO, EACR, ASCO, AACR

- **Main Scientific Publications:**

- * **First Author**

1. Kim N, **Ryu H**, Kim S, Joo M, Jeon HJ, Lee MW, Song IC, Kim MN, Kim JM, Lee HJ. CXCR7 promotes migration and invasion in head and neck squamous cell carcinoma by upregulating TGF- β 1/Smad2/3 signaling. Sci Rep. 2019 Dec 2;9(1):18100.
2. **Ryu H**, Baek SW, Moon JY, Jo IS, Kim N, Lee HJ. C-C motif chemokine receptors in gastric cancer. Mol Clin Oncol. 2018 Jan;8(1):3-8.

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5. **Ryu H**, Choi YS, Song IC, Yun HJ, Jo DY, Kim S, Lee HJ. Long-term treatment of residual or recurrent low-grade endometrial stromal sarcoma with aromatase inhibitors: A report of two cases and a review of the literature. *Oncol Lett*. 2015 Nov;10(5):3310-3314.
6. **Ryu H**, Park B, Moon JY, Lee MW, Choi YS, Song IC, Jo DY. Gangrenous Cryoglobulinemic Vasculitis in a Patient with Multiple Myeloma. *Korean J Med*. 2013 Dec;85(6):634-638. Korean.
7. **Ryu H**, Lee C, Jo DY. Solitary pulmonary plasmacytoma. *Blood Res*. 2013 Sep;48(3):170.
8. **Ryu H**, Lee HJ. Beau's Lines of the Fingernails. *Am J Med Sci*. 2014 Mar 24.

* **Contributing Author**

1. Yoo C, Kim KP, Jeong JH, Kim I, Kang MJ, Cheon J, Kang BW, **Ryu H**, Lee JS, Kim KW, Abou-Alfa GK, Ryoo BY. Liposomal irinotecan plus fluorouracil and leucovorin versus fluorouracil and leucovorin for metastatic biliary tract cancer after progression on gemcitabine plus cisplatin (NIFTY): a multicentre, open-label, randomised, phase 2b study. *Lancet Oncol*. 2021 Nov;22(11)
2. Won YW, Kim HJ, Kwon JH, Lee HY, Baek SK, Kim YJ, Kim DY, **Ryu H**. Life- Sustaining Treatment States in Korean Cancer Patients after Enforcement of Act on Decisions on Life-Sustaining Treatment for Patients at the End of Life. *Cancer Res Treat*. 2021 Oct;53(4):908-916
3. Lee HY, Kim HJ, Kwon JH, Baek SK, Won YW, Kim YJ, Baik SJ, **Ryu H**. The Situation of Life-Sustaining Treatment One Year after Enforcement of the Act on Decisions on Life-Sustaining Treatment for Patients at the End-of-Life in Korea: Data of National Agency for Management of Life-Sustaining Treatment. *Cancer Res Treat*. 2021 Oct;53(4):897-907.
4. Kim HJ, Kim YJ, Kwon JH, Won YW, Lee HY, Baek SK, **Ryu H**, Kim DY. Current Status and Cardinal Features of Patient Autonomy after Enactment of the Life- Sustaining Treatment Decisions Act in Korea. *Cancer Res Treat*. 2021 Oct;53(4):917-925.
5. Kang E, Keam B, Lee NR, Kang JH, Kim YJ, Shim HJ, Jung KH, Koh SJ, **Ryu H**, Lee J, Choo J, Yoo SH, Yun YH. Impact of family caregivers' awareness of the prognosis on their quality of life/depression and those of patients with advanced cancer: a prospective cohort study. *Support Care Cancer*. 2021 Jan;29(1):397-407.
6. Kim N, Kim S, Lee MW, Jeon HJ, **Ryu H**, Kim JM, Lee HJ. MITF Promotes Cell Growth, Migration and Invasion in Clear Cell Renal Cell Carcinoma by Activating the RhoA/YAP Signal Pathway. *Cancers (Basel)*. 2021 Jun 11;13(12):2920.
7. Baek SK, Kim HJ, Kwon JH, Lee HY, Won YW, Kim YJ, Baik S, **Ryu H**. Preparation and Practice of the Necessary Documents in Hospital for the "Act on Decision of Life-Sustaining Treatment for Patients

at the End-of-Life". *Cancer Res Treat.* 2021 Oct;53(4):926-934.

9. Kim S, Lee SI, Kim N, Joo M, Lee KH, Lee MW, Jeon HJ, **Ryu H**, Kim JM, Sul JY, Song GY, Kim JY, Lee HJ. Decursin inhibits cell growth and autophagic flux in gastric cancer via suppression of cathepsin C. *Am J Cancer Res.* 2021 Apr 15;11(4):1304-1320.

10. Lee MW, Yeon SH, Heo BY, Kwon J, **Ryu H**, Lee HJ, Yun HJ, Jo DY, Song IC. Impact of pre-transplant use of antibiotics on the graft-versus-host disease in adult patients with hematological malignancies. *Hematology.* 2021 Dec;26(1):96-102.

11. Song IC, Yeon SH, Lee MW, **Ryu H**, Lee HJ, Yun HJ, Kim SY, Jo DY. Thrombotic and hemorrhagic events in 2016 World Health Organization-defined Philadelphia-negative myeloproliferative neoplasm. *Korean J Intern Med.* 2021 Sep;36(5):1190-1203.

12. Lee MW, Yeon SH, **Ryu H**, Song IC, Lee HJ, Yun HJ, Kim SY, Lee JE, Shin KS, Jo DY. Volumetric splenomegaly in patients with essential thrombocythemia and prefibrotic/early primary myelofibrosis. *Int J Hematol.* 2021 Jul;114(1):35-43.

13. Song IC, Yeon SH, Lee MW, **Ryu H**, Lee HJ, Yun HJ, Sun BJ, Park JH, Jeong JO, Jo DY. Pulmonary hypertension in patients with chronic myeloid leukemia. *Medicine (Baltimore).* 2021 Aug 20;100(33):e26975.

14. Lee MW, Yeon SH, Seo WH, **Ryu H**, Lee HJ, Yun HJ, Jo DY, Song IC. A comparison of post-transplantation cyclophosphamide versus antithymocyte-globulin in patients with hematological malignancies undergoing HLA-matched unrelated donor transplantation. *Medicine (Baltimore).* 2020 Aug 21;99(34):e21571.

15. Chae H, Jeong H, Cheon J, Chon HJ, **Ryu H**, Kim IH, Kang MJ, Jeong JH, Ryoo BY, Kim KP, Yoo C. Efficacy and safety of second-line nab-paclitaxel plus gemcitabine after progression on FOLFIRINOX for unresectable or metastatic pancreatic ductal adenocarcinoma: multicenter retrospective analysis. *Ther Adv Med Oncol.* 2020 May 27;12:1758835920923424.

16. Lee MW, **Ryu H**, Choi YS, Song IC, Lee HJ, Yun HJ, Sun BJ, Jeong JO, Jo DY. Pulmonary hypertension in patients with Philadelphia-negative myeloproliferative neoplasms: a single-center retrospective analysis of 225 patients. *Blood Res.* 2020 Jun 30;55(2):77-84.

17. Kang E, Keam B, Lee NR, Kang JH, Kim YJ, Shim HJ, Jung KH, Koh SJ, **Ryu H**, Lee J, Choo J, Yoo SH, Yun YH. Impact of family caregivers' awareness of the prognosis on their quality of life/depression and those of patients with advanced cancer: a prospective cohort study. *Support Care Cancer.* 2020 May 6.

18. Lee MW, **Ryu H**, Song IC, Yun HJ, Jo DY, Ko YB, Lee HJ. Efficacy of cisplatin combined with topotecan in patients with advanced or recurrent ovarian cancer as second- or higher-line palliative chemotherapy. *Medicine (Baltimore).* 2020 Apr;99(17):e19931.

19. Song IC, Lee MW, Baek SW, **Ryu H**, Choi YS, Jo DY. Helicobacter pylori testing in a population

- of Korean patients with pernicious anemia. *Blood Res.* 2020 Mar;55(1):69.
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22. Yun YH, Kang EK, Lee J, Choo J, **Ryu H**, Yun HM, Kang JH, Kim TY, Sim JA, Kim Y. Development and validation of the quality care questionnaire -palliative care (QCQ-PC): patient-reported assessment of quality of palliative care. *BMC Palliat Care.* 2018 Mar 5;17(1):40.
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