

Thoracic Subcommittee

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Co-Chairs:

[Charles Simone II](#), [Arturs Meijers](#), [Hideyuki Harada](#), [Wei Liu](#)

Charges:

- To develop consensus of particle therapy in thoracic cancer including lung, thymoma, lymphoma etc.
- To create guidelines for implementing pencil beam scanning in moving thoracic targets
- To initiate research collaborations among the institutions
- To provide educational programs, including QA procedures for particle therapy centers for treating thoracic malignancy

Bibliography:

- Consensus Statement on Proton Therapy in Mesothelioma. Zeng J, Badiyan SN, Garces YI, Wong T, Zhang X, Simone CB 2nd, Chang JY, Knopf AC, Mori S, Iwata H, Meijers A, Li H, Bues M, Liu W, Schild SE, Rengan R; International Particle Therapy Cooperative Group Thoracic Subcommittee.
[Pract Radiat Oncol. 2020 May 24:S1879-8500\(20\)30117-X. doi: 10.1016/j.prro.2020.05.004.\(see also PTCOG archive\)](#)
- Consensus Guidelines for Implementing Pencil-Beam Scanning Proton Therapy for Thoracic Malignancies on Behalf of the PTCOG Thoracic and Lymphoma Subcommittee;

Chang JY, Zhang X, Knopf A, Li H, Mori S, Dong L, Lu HM, Liu W, Badiyan SN, Both S, Meijers A, Lin L, Flampouri S, Li Z, Umegaki K, Simone CB 2nd, Zhu XR.

[Int J Radiat Oncol Biol Phys. 2017 Sep 1;99\(1\):41-50. doi: 10.1016/j.ijrobp.2017.05.014. Epub 2017 May 19. PMID:28816159](#)

- Consensus Statement on Proton Therapy in Early-Stage and Locally Advanced Non-Small Cell Lung Cancer.

Chang JY, Jabbour SK, De Ruyscher D, Schild SE, Simone CB 2nd, Rengan R, Feigenberg S, Khan AJ, Choi NC, Bradley JD, Zhu XR, Lomax AJ, Hoppe BS; International Particle Therapy Co-operative Group Thoracic Subcommittee.

[Int J Radiat Oncol Biol Phys. 2016 May 1;95\(1\):505-16. doi: 10.1016/j.ijrobp.2016.01.036. Epub 2016 Jan 23. Review.](#)

[PMID:27084663](#)

- Phase 2 Study of Stereotactic Body Radiation Therapy and Stereotactic Body Proton Therapy for High-Risk, Medically Inoperable, Early-Stage Non-Small Cell Lung Cancer.

Nantavithya C, Gomez DR, Wei X, Komaki R, Liao Z, Lin SH, Jeter M, Nguyen QN, Li H, Zhang X, Poenisch F, Zhu XR, Balter PA, Feng L, Choi NC, Mohan R, Chang JY.

[Int J Radiat Oncol Biol Phys. 2018 Jul 1;101\(3\):558-563. doi: 10.1016/j.ijrobp.2018.02.022.](#)

- Reirradiation of thoracic cancers with intensity modulated proton therapy.

Ho JC, Nguyen QN, Li H, Allen PK, Zhang X, Liao Z, Zhu XR, Gomez D, Lin SH, Gillin M, Komaki R, Hahn S, Chang JY.

[Pract Radiat Oncol. 2018 Jan-Feb;8\(1\):58-65. doi: 10.1016/j.prro.2017.07.002. Epub 2017 Jul 8.](#)

[PMID: 28867546](#)

- Proton Beam Radiotherapy and Concurrent Chemotherapy for Unresectable Stage III Non-Small Cell Lung Cancer: Final

Results of a Phase 2 Study.

Chang JY, Verma V, Li M, Zhang W, Komaki R, Lu C, Allen PK, Liao Z, Welsh J, Lin SH, Gomez D, Jeter M, O'Reilly M, Zhu RX, Zhang X, Li H, Mohan R, Heymach JV, Vaporciyan AA, Hahn S, Cox JD.

JAMA Oncol. 2017 Aug 10;3(8):e172032. doi: 10.1001/jamaoncol.2017.2032. Epub 2017 Aug 10.

PMID: 28727865

- Proton therapy for non-small cell lung cancer: the road ahead.

Brooks ED, Ning MS, Verma V, Zhu XR, Chang JY.

Transl Lung Cancer Res. 2019 Sep;8(Suppl 2):S202-S212. doi: 10.21037/tlcr.2019.07.08.

- Impact of Spot Size and Spacing on the Quality of Robustly Optimized Intensity Modulated Proton Therapy Plans for Lung Cancer.

Liu C, Schild SE, Chang JY, Liao Z, Korte S, Shen J, Ding X, Hu Y, Kang Y, Keole SR, Sio TT, Wong WW, Sahoo N, Bues M, Liu W.

Int J Radiat Oncol Biol Phys. 2018 Jun 1;101(2):479-489. doi: 10.1016/j.ijrobp.2018.02.009. Epub 2018 Feb 14.

- Proton therapy for early-stage non-small cell lung cancer (NSCLC).

Gomez DR, Li H, Chang JY.

Transl Lung Cancer Res. 2018 Apr;7(2):199-204. doi: 10.21037/tlcr.2018.04.12.

- Trends and Outcomes of Proton Radiation Therapy Use for Non-Small Cell Lung Cancer.

Moreno AC, Zhang N, Giordano SH, Liao Z, Gomez D, Chang JY, Lin SH.

Int J Part Ther. 2018 Fall;5(2):18-27. doi: 10.14338/IJPT/18-00029.1. Epub 2018 Nov 30.

PMID: 31773031