



第 73 回 日本医学放射線学会総会が

2014 年 4 月 10 日(木)～4 月 13 日(日)に

パシフィコ横浜にて開催されます。

当院からは PET センター長 尾辻 秀章 医師が

学術発表致しますので、ご紹介します。



第73回

日本医学放射線学会総会

**Face to Faces
Face to Communities
Face to the World**

会 期：2014年
4月10日(木)～13日(日)
会 場：パシフィコ横浜
会 長：金澤 右(岡山大学大学院)

向きあう、
つながる
そして広がる



肺の亜区域枝解剖の表形式表示の提案：気管支、肺動脈、肺静脈について

Proposal for table description of pulmonary subsegmental anatomical structures: Bronchus, pulmonary artery, and pulmonary vein

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[Objective] The anatomical structures of the lung used for diagnostic imaging are the bronchus, pulmonary artery, and pulmonary vein. Traditionally, the subsegmental anatomical name is associated with each structure, but the name does not describe the structure precisely. Therefore, we propose a new nomenclature system for the pulmonary anatomical structure by using a graph theory of mathematics.

[Materials and Methods] The included cases were analyzed by dynamic CT and were divided between the pulmonary arterial and venous phases. We used a directed acyclic graph with a rooted tree structure for determining the unique line description of the subsegmental pulmonary structures: bronchus, pulmonary artery, and pulmonary vein. We created a macro using an auto filter in Excel for the subsegmental anatomical analysis.

[Results] The subsegmental branch of the bronchus described the unique line by the traditional anatomical names. Several of the subsegmental branches of the pulmonary artery and most of the subsegmental branches of the pulmonary vein were not able to describe the unique line by the traditional anatomical names. None of the subsegmental pulmonary structures could be described by the exact unique line using only traditional names.

[Conclusion] We have proposed a systemic nomenclature of the subsegmental pulmonary structures by using a spreadsheet table. Our proposal will provide the fundamental nomenclature for pulmonary structures. Next, we would like to consider more cases to determine the actual table description of each subsegmental anatomical structure of the lung.