To med(iastinoscopy) or not to med(iastinoscopy)

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Variation in health care delivery is not a new concept. Wennberg and Gittelsohn’s seminal work1 examining the disparities in the use of health care services in Vermont laid the foundation for much of health Services research more than 40 years ago.1 Variations in use of a particular service indicate a level of uncertainty; uncertainty in either the effectiveness of the particular service, the need to perform a service, or the quality of the service provided.

In this issue of the Journal, Thornblade and colleagues2 provide yet another example. Invasive mediastinal staging by mediastinoscopy, endobronchial ultrasonography, or endoscopy ultrasonography is known to be underutilized.3-10 The work of Thornblade and colleagues2 demonstrates variability in the use of invasive mediastinal staging that cannot be explained by patient or other clinical factors. Much like the work of Wennberg and Gittelsohn1 in Vermont, variability exists within a geographically restricted area of Puget Sound, Wash.

What does this mean, and why do we care? The variation in the use of mediastinal staging could suggest that the evidence supporting its use is weak, and its effectiveness thus is disputable in the minds of many providers. Alternatively, it could mean that knowledge gaps regarding the most current guidelines exist for many providers, leading to suboptimal lung cancer staging. Either suggests that there is a quality gap in the processes of care delivery warranting either further investigation or provider education.

The potential for less than optimal patient care should in and of itself be enough for us to care. Other stakeholders, however, are starting to look at variation in health care. Unwarranted tests not only can lead to harm but also can be expensive. The Choosing Wisely campaign by the American Board of Internal Medicine and other specialties is an attempt to reduce variability by discouraging the use of ineffective tests. The Leapfrog Group, a national nonprofit organization that surveys hospitals for quality and popularized minimum volume thresholds for procedures such as esophagectomies, now has a 2018 initiative examining the appropriateness of procedures, including lung and esophageal resection. Although not well defined, this is a first dive into reducing variability. For example, one could ask whether invasive mediastinal staging was done for fluodeoxyglucose-avid nodes on a positron emission tomographic computed tomographic scan. Insurers may in the future not pay providers if they fail to adhere to the standard of care.

Thornblade and colleagues2 are to be commended on their work. Their findings challenge us to examine whether their findings are widespread, if so to ask why, and then to remedy the situation. Otherwise, someone else will.

Central Message
Variation in the use of mediastinal staging suggests that the evidence supporting its use is weak or that gaps in knowledge exist, leading to suboptimal lung cancer staging.

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References

