

Archive ouverte UNIGE

https://archive-ouverte.unige.ch

Article Commentaire 2017

Published Open
version Access

This is the published version of the publication, made available in accordance with the publisher's policy.

Can segmentectomy still be proposed as an alternative to lobectomy in 2016 ?

De Bari, Berardino; Durham Faivre, André-Dante; Bourhis, Jean; Ozsahin, Mahmut

How to cite

DE BARI, Berardino et al. Can segmentectomy still be proposed as an alternative to lobectomy in 2016? In: Journal of clinical oncology, 2017, vol. 35, n° 5, p. 573–574. doi: 10.1200/JCO.2016.69.9140

This publication URL: https://archive-ouverte.unige.ch/unige:181102

Publication DOI: <u>10.1200/JCO.2016.69.9140</u>

© This document is protected by copyright. Please refer to copyright holder(s) for terms of use.



JOURNAL OF CLINICAL ONCOLOGY

CORRESPONDENCE

Can Segmentectomy Still Be Proposed As an Alternative to Lobectomy in 2016?

To the Editor: The recent article in *Journal of Clinical Oncology* by Dai et al¹ explored the outcomes of lobectomy and of more conservative surgical procedures for early-stage lung cancer (ESLC) in a large retrospective population obtained from the SEER registry. Results of the study, even with its limits correctly acknowledged by the authors, globally support the results available in the literature: lobectomy obtains better overall survival (OS) and cancer-specific survival compared with segmentectomy and/or wedge resections. These data confirm that lobectomy remains the standard surgical treatment for ESLC.

Despite that, some messages that are given to the scientific community through a highly diffused journal are not, in our opinion, acceptable in 2016. Indeed, the authors support in their discussion the adoption of more limited resections when lobectomy could not be proposed. In our opinion, looking at the data presented in this article, it is not ethical to propose treatments that expose patients to a significantly higher risk of death, given that stereotactic ablative radiotherapy (SABR) is largely available and obtains the same oncologic outcomes as lobectomy. SABR is already accepted as a curative alternative to surgery in the US guidelines for medically inoperable ESLC.²

Looking at operable patients, such as those considered in the study by Dai et al, the authors declared in their discussion that the adoption of SABR is not supported by high-level evidence. This statement does not take into account that a recent pooled analysis of two randomized controlled trials comparing SABR and lobectomy for operable ESLC showed that SABR is at least as effective as radical surgery in terms of OS and recurrence-free survival³: 3-year OS was 95% (95% CI, 85 to 100) in the SABR group and 79% (95% CI, 64 to 97) in the surgery group (hazard ratio, 0.14 [95% CI, 0.017 to 1.190]; P=.037). Three-year recurrence-free survival was 86% (95% CI, 74 to 100) in the SABR group versus 80% (95% CI, 65 to 97) in the surgery group (hazard ratio, 0.69 [95% CI, 0.21 to 2.29];

P=.54). These results are surely affected by the small sample sizes of the pooled studies, which were stopped as a result of the lack of accrual. However, it is a meta-analysis of randomized controlled trials; therefore, for the moment, it provides the highest level of evidence in this field, and it cannot be neglected. Moreover, similar results have previously been published in other larger meta-analyses of nonrandomized data. 4,5

In conclusion, the merit of the study by Dai et al is that it confirms that surgical procedures other than lobectomy should be considered suboptimal in the modern era of thoracic oncology because of their significantly lower rates of OS and cancer-specific survival. However, we believe that it is time to consider SABR—and not more conservative surgical procedures—as the real alternative to lobectomy in ESLC, in the surgical community as well.

Berardino De Bari, André Durham, Jean Bourhis, and Mahmut Ozsahin

Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland

AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

Disclosures provided by the authors are available with this article at ascopubs.org/journal/jco.

REFERENCES

- **1.** Dai C, Shen J, Ren Y, et al: Choice of surgical procedure for patients with non–small-cell lung cancer ≤ 1 cm or > 1 to 2 cm among lobectomy, segmentectomy, and wedge resection: A population-based study. J Clin Oncol 34:3175-3182,
- National Comprehensive Cancer Network guidelines. Lung cancer. Version 4. 2016. https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf
- 3. Chang JY, Senan S, Paul MA, et al: Stereotactic ablative radiotherapy versus lobectomy for operable stage I non-small-cell lung cancer: A pooled analysis of two randomised trials. Lancet Oncol 16:630-637, 2015
- 4. Zheng X, Schipper M, Kidwell K, et al: Survival outcome after stereotactic body radiation therapy and surgery for stage I non-small cell lung cancer: A metaanalysis. Int J Radiat Oncol Biol Phys 90:603-611, 2014
- Soldà F, Lodge M, Ashley S, et al: Stereotactic radiotherapy (SABR) for the treatment of primary non-small cell lung cancer; Systematic review and comparison with a surgical cohort. Radiother Oncol 109:1-7, 2013

DOI: 10.1200/JCO.2016.69.9140; published at ascopubs.org/journal/jco on November 28, 2016.

AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

Can Segmentectomy Still Be Proposed As an Alternative to Lobectomy in 2016?

The following represents disclosure information provided by authors of this manuscript. All relationships are considered compensated. Relationships are self-held unless noted. I = Immediate Family Member, Inst = My Institution. Relationships may not relate to the subject matter of this manuscript. For more information about ASCO's conflict of interest policy, please refer to www.asco.org/rwc or ascopubs.org/jco/site/ifc.

Berardino De Bari No relationship to disclose

André Durham

Employment: Incyte (I), Novartis (I)

Jean Bourhis

No relationship to disclose

Mahmut Ozsahin

No relationship to disclose