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TI Can Ipilimumab restore immune response in advanced NSCLC after progression on anti- PD -1/ PD-L1 agents?

AU,AUFN,AULN Sternschuss, Michal; Peled, Nir; Allen, Aaron M; Dudnik, Elizabeth; Rotem, Ofer; et  
PUB al. **Thoracic Cancer** 11.8: 2331-2334. John Wiley & Sons, Inc. (Aug 2020)

Highlighting: Off | Single | Multi

AB **Abstract (summary)** Translate [unavailable for this document]

Anti-PD-1/PD-L1 agents play a crucial part in the treatment of non-small cell cancer (NSCLC) demonstrating improved overall response rate (ORR) and overall survival (OS). Recent studies evaluating combination treatment with anti-PD-1 and anti-CTLA-4 suggests improved outcome but also increased toxicity. Evidence is scarce regarding subsequent treatment with immune checkpoint inhibitors (ICPI) after progression on anti-PD-1/PD-L1. A total of 15 patients were treated with a combination of anti-PD1 agent and ipilimumab after confirmed progression of disease on anti-PD1/PDL1 alone during 2017. Clinical data were retrieved retrospectively. Disease control rate (DCR) was defined as partial response (PR) or stable disease (SD). The overall DCR was 33.3% (n = 5); two patients with PR and three patients with SD, three of whom had prior documented disease control on anti-PD1. The immune-related adverse event (irAE) rate was 40% (n = 6); two patients had grade 3 AE and one patient died of pneumonitis. While the median time to progression was two months (range 0.5–16), four of the five patients with PR/SD experienced durable benefit for 8–16 months. This small retrospective cohort of heavily pretreated unselected patients suggests ipilimumab might reboot the immune response in patients with advanced NSCLC following progression of disease on anti-PD1 therapy, while delaying exposure to the higher toxicity rates associated with upfront combination therapy. This strategy should be explored prospectively.

**Full text** Translate [unavailable for this document]

**Indexing (details)** Cite

SU **Subject** Patients;  
Dermatitis;  
Histology;  
Medical prognosis;  
Melanoma;  
Immunotherapy;  
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Disease control

TI **Title** Can Ipilimumab restore immune response in advanced NSCLC after progression on anti- PD -1/ PD-L1 agents?

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FAV	First available	2020-08-03
UD	Updates	2020-08-03
	Database	Publicly Available Content (1970 - current)

BRIEF REPORT

**Can Ipilimumab restore immune response in advanced NSCLC after progression on anti-PD-1/PD-L1 agents?**

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**Keywords**

Immune-related adverse events; ipilimumab; nivolumab; NSCLC.

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Thoracic Cancer 11 (2020) 2331–2334

**Abstract**

Anti-PD-1/PD-L1 agents play a crucial part in the treatment of non-small cell cancer (NSCLC) demonstrating improved overall response rate (ORR) and overall survival (OS). Recent studies evaluating combination treatment with anti-PD-1 and anti-CTLA-4 suggests improved outcome but also increased toxicity. Evidence is scarce regarding subsequent treatment with immune checkpoint inhibitors (ICPI) after progression on anti-PD-1/PD-L1. A total of 15 patients were treated with a combination of anti-PD1 agent and ipilimumab after confirmed progression of disease on anti-PD1/PDL1 alone during 2017. Clinical data were retrieved retrospectively. Disease control rate (DCR) was defined as partial response (PR) or stable disease (SD). The overall DCR was 33.3% (n = 5); two patients with PR and three patients with SD, three of whom had prior documented disease control on anti-PD1. The immune-related adverse event (irAE) rate was 40% (n = 6); two patients had grade 3 AE and one patient died of pneumonitis. While the median time to progression was two months (range 0.5–16), four of the five patients with PR/SD experienced durable benefit for 8–16 months. This small retrospective cohort of heavily pretreated unselected patients suggests ipilimumab might reboost the immune response in patients with advanced NSCLC following progression of disease on anti-PD1 therapy, while delaying exposure to the higher toxicity rates associated with upfront combination therapy. This strategy should be explored prospectively.

**Introduction**

Immune checkpoint inhibitors (ICPI) play an increasingly crucial role in the treatment paradigm of metastatic non-small cell lung cancer (mNSCLC) and are now considered the standard of care in both first and advanced lines setting, demonstrating improved objective response rate (ORR) and overall survival (OS) compared with traditional chemotherapy regimens.

Different approaches are being evaluated to maximize treatment efficacy. One approach is combination of inhibitors targeting different immune checkpoints. Anti-programmed death 1 (PD-1) and anticytotoxic T cell lymphocyte-4 (CTLA-4) antibodies have distinct,

complementary mechanisms of action and thus, the combination may improve antitumor immunity as demonstrated in other malignancies. A phase 1 study evaluating combination therapy in unselected treatment naïve mNSCLC patients suggested improved ORR and durable responses, at a range of 33%–37% grade 3/4 immune-related adverse events (irAEs).<sup>1</sup> A more recently published phase 3 trial compared combination immunotherapy to standard chemotherapy in patients with a high tumor mutational burden (TMB) and found improved progression-free survival (PFS) and ORR.<sup>2</sup> This trial also reported a grade 3/4 irAE rate of 31.2% as compared with 7%–26% in the major randomized control trials of single agent anti-PD-1/PD-L1.

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Field Name	Field Code	Example	Description and Notes
Abstract	AB	ab(t near/1 cell near/1 lymphoma) ab("non-small cell cancer" OR nslc)	Almost all articles in Publicly Available Content have an abstract. Use adjacency and/or Boolean operators to narrow or broaden your search and double quotes to search for a precise phrase.
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All fields	ALL	all(icpi OR "immune checkpoint inhibitors")	'All' searches all fields except the full text. Use proximity and/or Boolean operators to narrow search results.
All fields + text	--	continuous pre/1 glucose pre/1 monitoring	To search all fields including the full text, do not use any field qualifier.
Author <sup>1</sup> Author First Name Author Last Name	AU AUFN AULN	au("dudnik, elizabeth") aufn(elizabeth) auln(dudnik)	Names are captured as they appear in the source, so you will sometimes find authors with surname and initial(s), sometimes with surname and full first name(s).
First author	FAU	fau(sternschuss)	First name listed in Author field. It is included in the Author browse, but its position cannot be specified in the Author browse.
Author affiliation	AF	af(davidoff cancer center) af(israel)	These are the authors' affiliations and countries, when available.
Company	CO	co(medtronic) co(merck)	If a company or organization is a prominent subject of the article it is indexed and searchable with CO.
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DOI	DOI	doi(10.1111/1759-7714.13502)	Digital Object Identifier. Search the portion of the number that follows <a href="http://dx.doi.org">http://dx.doi.org</a>
First available	FAV	fav(20200808)	This date indicates the first time a document was loaded on Dialog.
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<sup>1</sup> A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse Fields.

Field Name	Field Code	Example	Description and Notes
Issue	ISS	iss(8)	Issue is also searchable via the Look Up Citation tool.
Journal title	JN	jn("thoracic cancer")	This is the full journal name (periodical title). A Look-Up list available under Publication title.
Identifier (Keyword)	IF	if(ipilimumab) su(ipilimumab)	These are keywords provided by the authors. They are not available in every document. Searchable with both IF and SU
Language	LA	la(english)	This is the language in which the document was originally published.
Language of abstract	SL	sl(spanish)	Some documents have both an English and a foreign-language abstract. Both are searchable in their respective languages.
Pagination	PG	pg(2331) pg(2331-2334)	This may be a single page number or a range. Any part of it is searchable.
Publication date	PD	pd(20190501) pd(>20180415) pd(20200101-20201231)	This is the publication date of the article. Date range searching is supported.
Publication title <sup>1</sup>	PUB	pub("thoracic cancer") pub(biorxiv)	This is the title of the publication.
Publication type <sup>1</sup>	STYPE	stype("working papers") stype(journals) stype(conference)	Most documents are from journals or working paper repositories, but a small number of other publication types are available too.
Publication year	YR	yr(2020) yr(2013-2020)	Date range searching is supported.
Publisher	PB	pb(wiley)	This is the publisher of the journal.
Publisher location	PBLOC	pbloc(united kingdom)	This is the country of the journal's publisher.
Subject <sup>1</sup>	SU	su(immunotherapy) su(immunotherapy and ipilimumab)	Subject terms assigned by ProQuest appear in the SU field. A search in SU also includes author keywords from Keyword/Identifier (IF)
Text	TX	tx("oncolytic viruses") tx(virus oncoliticos)	Some articles are not in English
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Title only	TIO	tio("continuous glucose monitoring")	TIO searches the Title only, not Subtitle or Alternate title.
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<b>Citation / Abstract</b>	Bibliographic record plus Abstract and Indexing	✓ <sup>2</sup>	✓
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