

Agenus' Bali/Zali Combination in Advanced Cervical Cancer

Durable (12 month follow up), Objective Response Rate of ~26% in patients in a Phase II trial

Advanced cervical cancer is a horrifying disease particularly for young women who come from poor backgrounds and have limited health care coverage. [This](#) year more than 14,000 women will be diagnosed with cervical cancer in the US and more than 4,000 women will die. A recent article in the New Yorker profiled the growing prevalence of cervical cancer in states like Alabama, where resources to vaccinate and screen women are lacking¹.

Newly diagnosed patients receive chemotherapy, which has high toxicity and limited activity; the majority of patients relapse in as early as six months or less². Adding bevacizumab (a VEGF inhibitor), another approved treatment, marginally improves time to tumor recurrence, but

leads to other difficult side effects, like fistulas³. Following recurrence, the three other drugs approved for use in cervical cancer have limited activity (see Table 1), with patients relapsing in 2-3 months⁴ on average.

Currently available treatments in cervical cancer are ineffective, and seriously compromise the quality of life of patients. **Agenus is committed to changing this reality.**

Data from cervical cancer clinical trials with Agenus' "bali/zali" (PD-1 and CTLA-4 antibodies) have shown a near doubling

of response rates, with clinical responses in 14 of the first 55 patients, with a median follow up of ~12 months. We continue to see compelling objective responses in additional patients beyond our previously presented interim analysis data set.

This combination therapy has also delivered improved safety as compared to the standard of care chemotherapy, where high grade treatment related adverse events can occur in as

Note that Keytruda® was approved by the FDA with ~14% response rate in PD-L1 positive patients, with ~92% of patients having squamous cell histology⁴– these patients generally show better response rates than non PD-L1 positive patients.

Zalifrelimab & balstilimab combination therapy, dosed in a similar patient population, but also includes patients with adenocarcinoma (patients with poorer prognosis) in a Phase

II clinical trial, has an estimated ORR of ~26% after ~12 months of follow up (see Table 1). What is most exciting is that these responses are durable in some cases beyond a year; we are optimistic that if these trends continue, we may see certain patients effectively cured.

Table 1. Balstilimab +/- zalifrelimab activity vs. currently available agents in 2L+ cervical cancer

	Chemotherapy Topotecan ⁵	Roche Bevacizumab ⁶	Merck Pembrolizumab ⁴	AGEN PD1 Balstilimab	AGEN - PD1 plus CTLA4 Bali/Zali
Response rate	12.5%	10.9%	14.3% (PD-L1 positive only)	14.3% (all-comers)	~26% (all-comers)
Complete response	2.5%	0%	2.6%	2.4%	7.3%
Partial response	10%	10.9%	11.7%	11.9%	18.2%

~2X more patients than previously reported.
~2x more active than available treatments

many as ~68% of patients⁵. On April 7, 2020 and March 12, 2020, we announced receipt of FDA Fast Track Designation for the investigation of treatment of advanced cervical cancer with our "bali" monotherapy and "bali/zali" combination, respectively.

With additional follow up, an interim analysis of balstilimab monotherapy showed improved response rates of 14.3% (1 CR, 5 PR) in all patients, regardless of PD-L1 biomarker status, and including both squamous cell and adenocarcinoma patients.

What this data speaks to is that, while PD-1 is the backbone of cancer immunotherapies, the addition of CTLA-4 seems to deliver the "combo push" to make these responses potentially curative. **To this end, we are seeing three-fold higher complete responses in our "bali/zali" combination therapy as compared to currently marketed therapies (Table 1).**

Our goal is to make these effective therapies accessible to patients in need, regardless of where they live or what insurance coverage they have.

References

1. Eyal Press, A Preventable Cancer Is on the Rise in Alabama. The New Yorker. March 30, 2020
2. Monk BJ et al., J Clin Oncol. 2009 Oct 1;27(28):4649-55
3. Tewari KS et al., Lancet. 2017 Oct 7;390(10103):1654-1663
4. Chung HC et al., J Clin Oncol. 2019 Jun 10;37(17):1470-1478
5. Bookman et al., Gynecol Oncol. 2000 Jun;77(3):446-9
6. Monk et al., J Clin Oncol. 2009 Mar 1;27(7):1069-74

Forward-Looking Statements: This Agenus Newsletter includes forward-looking statements that are made pursuant to the safe harbor provisions of the federal securities laws, including statements regarding the potential efficacy of zalifrelimab and balstilimab. These statements are subject to risks and uncertainties, including those described in our SEC filings.