



ADXS11-001 immunotherapy in squamous or non-squamous persistent/recurrent metastatic cervical cancer: Results from stage 1 [and stage 2] of the phase II GOG/NRG-0265 study

NCT01266460

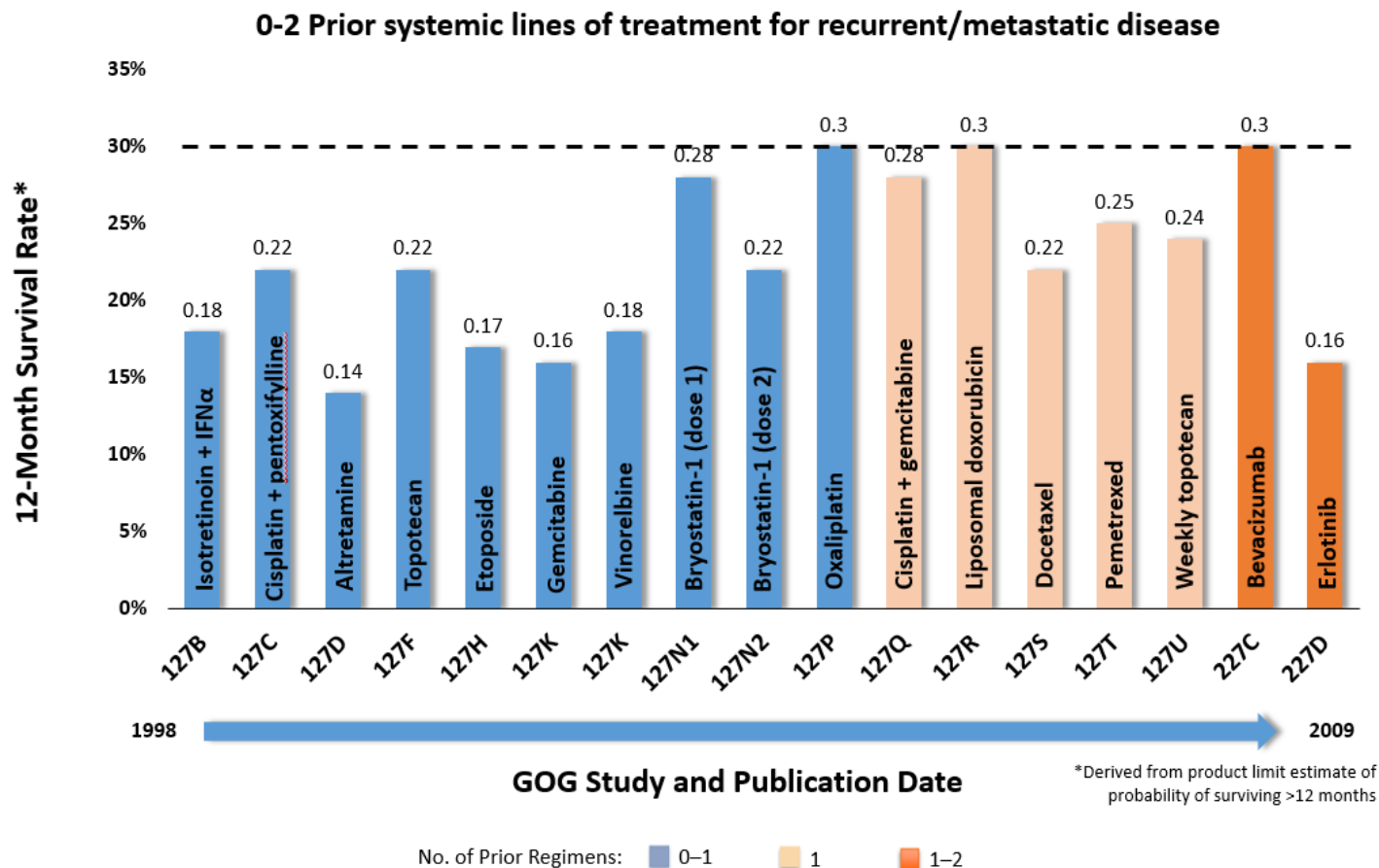
Warner Huh, MD¹, Don Dizon, MD², Matthew A. Powell, MD³, Charles A. Leath III, MD¹, Lisa M. Landrum, MD⁴, Edward Tanner, MD⁵, Robert Higgins, MD⁶, Stefanie Ueda, MD⁷, Michael McHale, MD⁸, Bradley J. Monk, MD⁹, Carol Aghajanian, MD¹⁰

¹University of Alabama Birmingham, Obstetrics/Gynecology, Birmingham, AL; ²Massachusetts General Hospital Cancer Center, Gynecologic Oncology, Boston, MA; ³Washington University School of Medicine, Obstetrics/Gynecology, St. Louis, MO; ⁴University of Oklahoma Health Sciences Center, Section of Gynecologic Oncology, Oklahoma City, OK; ⁵Johns Hopkins Medical Institutions, Gynecology and Obstetrics, Baltimore, MD; ⁶Carolinas Medical Center, Obstetrics/Gynecology, Charlotte, NC; ⁷UCSF School of Medicine, Obstetrics, Gynecology and Reproductive Sciences, Division of Gynecologic Oncology, San Francisco, CA; ⁸UC San Diego Moores Cancer Center, Division of Gynecologic Oncology, La Jolla, CA; ⁹University of Arizona Cancer Center at Dignity Health St. Joseph's Hospital and Medical Center, Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, Phoenix, AZ; ¹⁰Memorial Sloan Kettering Cancer Center, Gynecologic Medical Oncology Service, New York, NY.

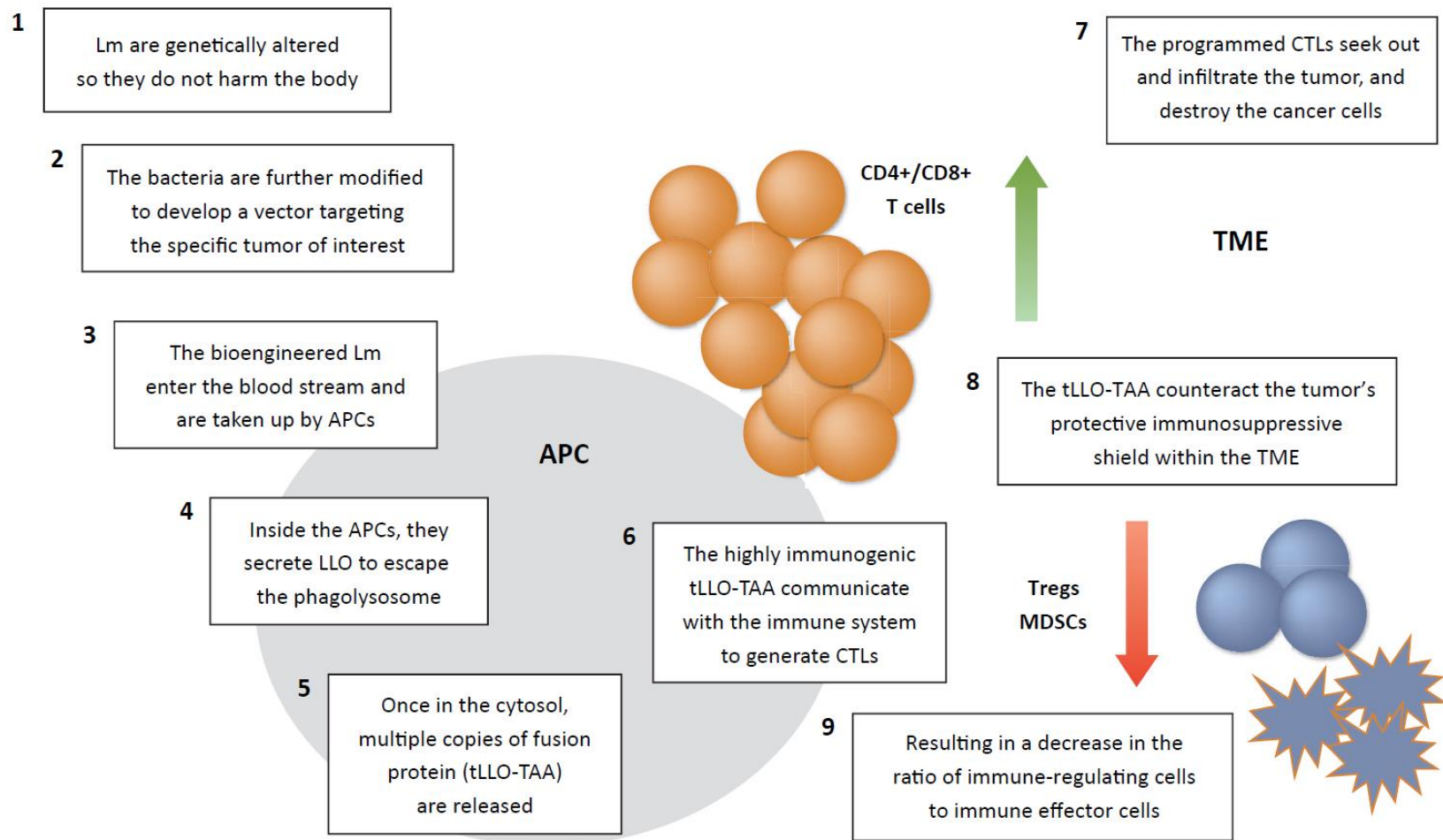
Background/Rationale

- PRmCC is a lethal disease: Median OS = 13–17 mo with access to first-line SOC, platinum-based doublet chemotherapy +/- bev¹
 - There is no therapy following failure of first-line treatment; survival only 4–7 mo²
- GOG conducted >20 ph 2 studies in PRmCC from 1998–2015
 - 12-month OS rate never significantly exceeded 30%
 - Only 1 study met the predefined efficacy and safety threshold to progress to second stage of enrollment (GOG-227C)
 - Bev median OS = 7.3 months and 12-month OS = 30%
 - Limited therapies beyond first line
- ADXS11-001 immunotherapy
 - Live attenuated *Listeria monocytogenes* (*Lm*) immunotherapy bioengineered to secrete an HPV-16 E7 protein fused with a truncated fragment of listeriolysin O (tLLO)
 - Targets HPV-transformed cells, inducing antitumor T-cell immunity and breaking immune tolerance in the tumor microenvironment
- Ph II randomized trial of ADXS11-001 +/- cisplatin in Indian pts with PRmCC (0–2 prior lines of therapy) demonstrated promising activity (12-mo survival rate = 32%) and acceptable toxicity³
 - Activity observed across all HPV types (16, 18, 45, other)

12-Month Survival Rates in Pretreated PRmCC: The GOG Experience

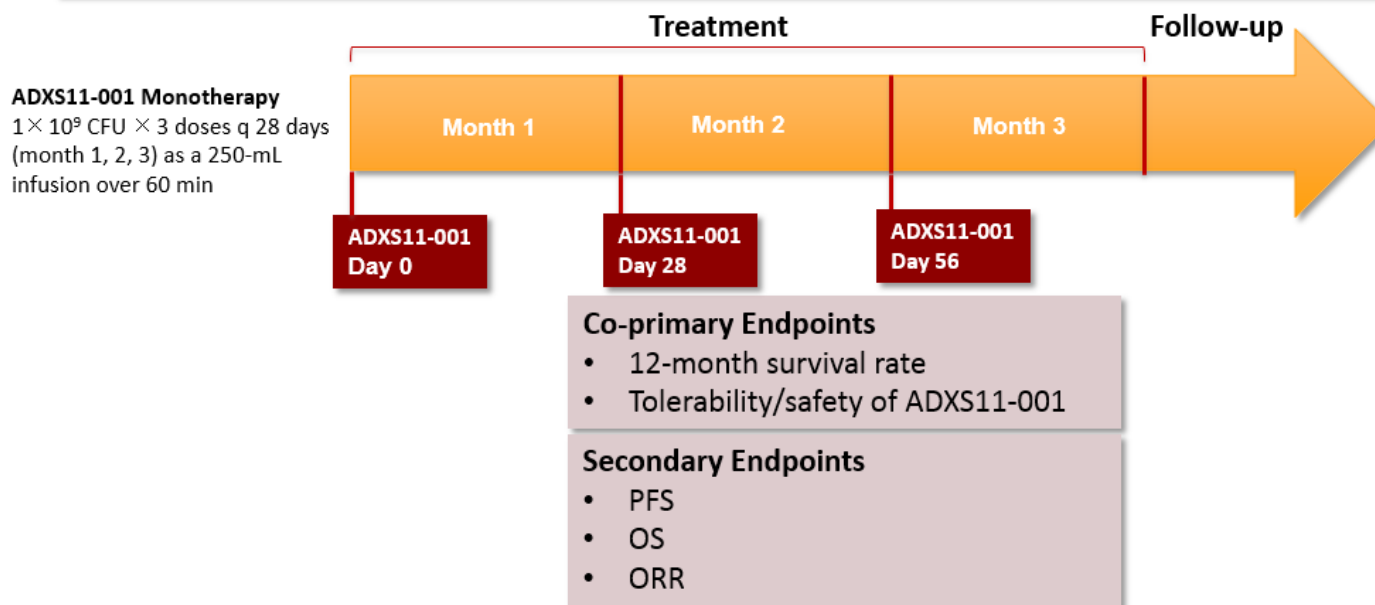


Step-by-Step *Lm*-LLO Immunomodulation



GOG/NRG-0265 Study Design and Eligibility

- N = ~63; Simon two-stage design
- ≥ 18 years
- Persistent/recurrent metastatic (PRmCC) squamous/non-squamous cervical cancer
- ≥ 1 prior line of systemic-dose therapy for PRmCC, *excluding that received as a component of primary curative treatment*
- Prior bevacizumab allowed, but not required
- GOG PS 0/1
- Measurable disease ≥ 1 target lesion (RECIST 1.1)



*Stage 2 amended to allow continuous (>3) dosing of ADXS11-001.

CONSORT Diagram

Stage 1
Enrollment period:
1/6/2012 – 5/6/2014

↓
N = 29 consented
↓

N = 26 treated



1 dose	4
2 doses	3
3 doses	18
>3 doses	NA*

Study complete

Stage 2
Enrollment period:
2/25/2015 – 9/24/2015

↓
N = 25 consented
↓

N = 24 treated



1 dose	5
2 doses	7
3 doses	10
>3 doses	2

ADXS11-001 placed on clinical hold

N = 10 patients still receiving ADXS11-001
at time of hold

- N = 4, >3 doses
- N = 6, <6 doses

54

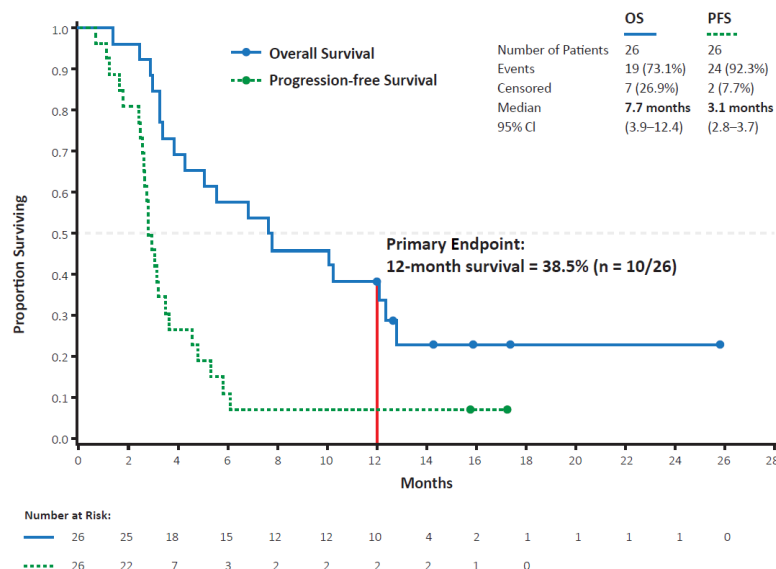
50

*Maximum of 3 doses allowed on stage 1 protocol.

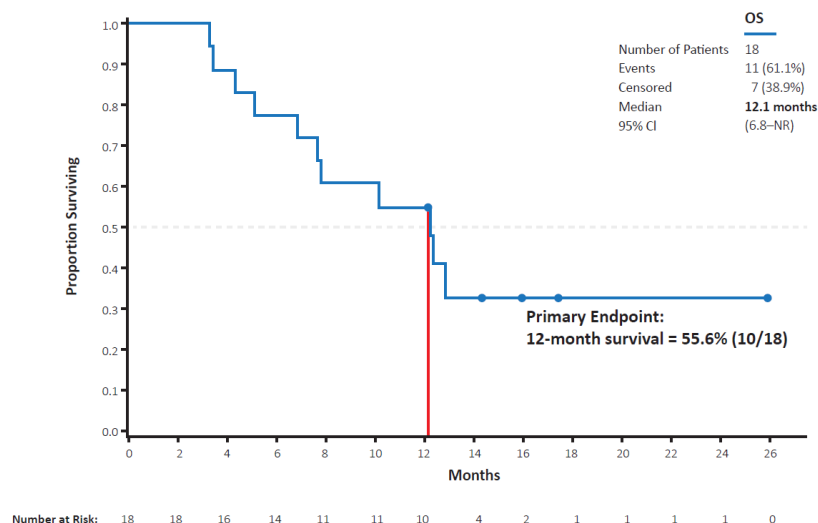
Overall Survival

STAGE 1

All patients



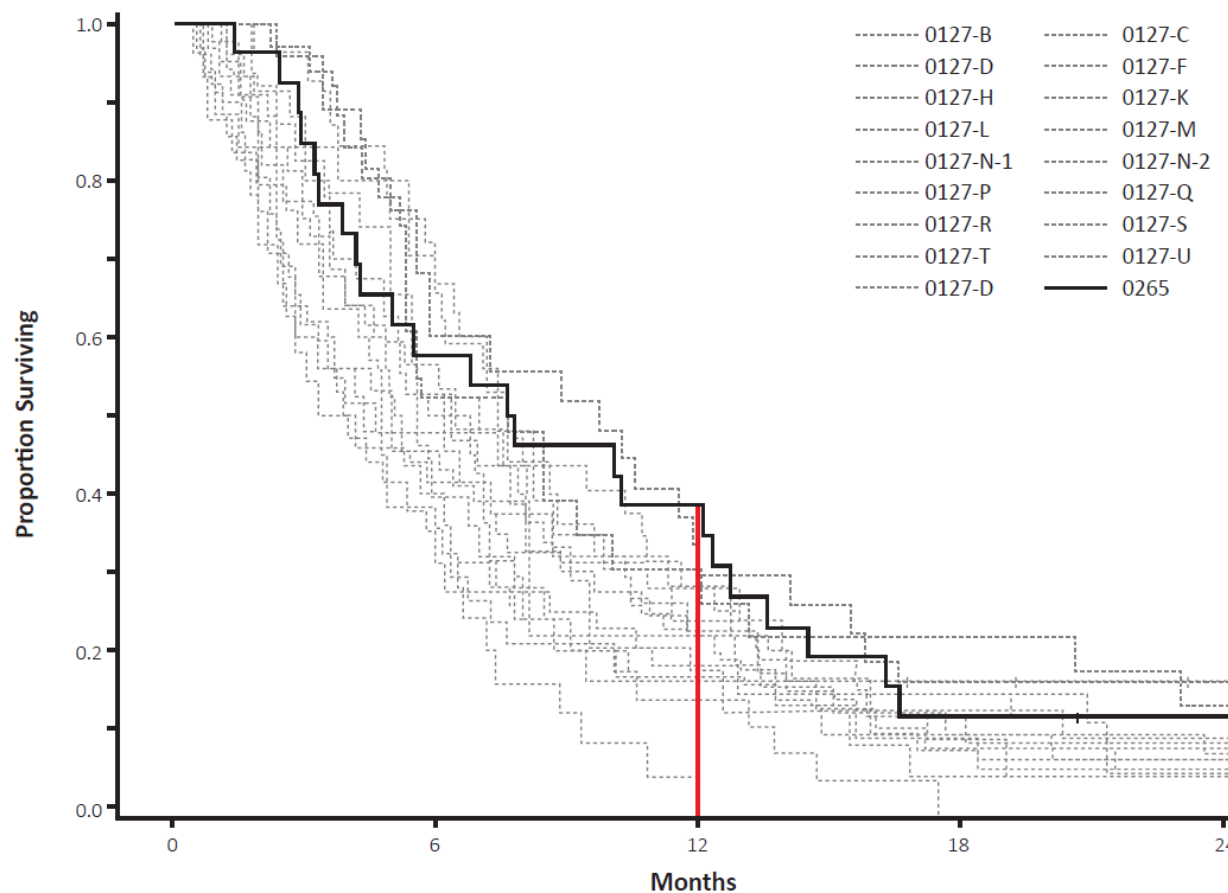
3 doses of ADXS11-001



STAGE 2

	All Patients (N = 24)	>3 Doses of ADXS11-001 (N = 12)
6-month OS	42% (n = 10/24)	67% (n = 8/12)
Median OS (95% CI)	4.8 months (3.8–NR)	NR (3.5–NR)
Median PFS (95% CI)	2.6 months (2.0–3.2)	—

GOG/NRG-0265: Survival in the Context of Historical GOG PRmCC Clinical Trials



Objective Response

OBJECTIVE RESPONSE

- Investigator assessment of tumor best response

	Stage 1 (N = 26)	Stage 2 (N = 24)
Tumor best response, n (%)		
CR	0 (0)	1 (4)
SD	7 (27)	8 (33)
PD	10 (38)	11 (46)
NE	6 (23)	4 (17)

Safety/Tolerability – Stage 1

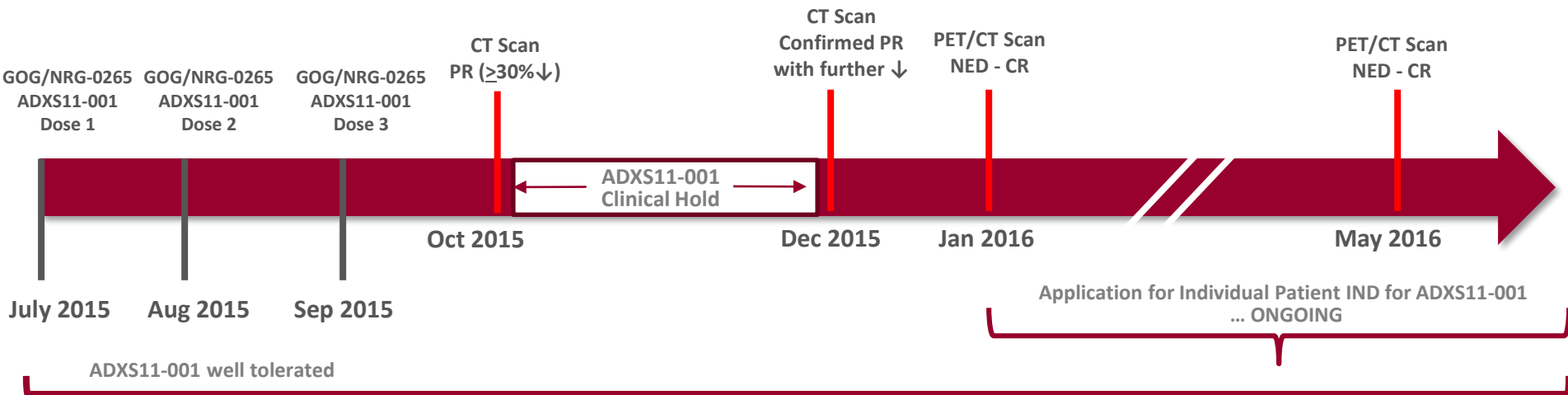
Adverse Event Summary (n=26)			
Adverse event (AE)	Grade 1-4	Grade 3	Grade 4
Patients with ≥ 1 treatment-related AE (TRAE), n (%)	24 (92)	4 (15)	1 (4)*
TRAEs occurring in $\geq 10\%$ of patients			
Fatigue	15 (58)	-	-
Chills	14 (54)	-	-
Fever	11 (42)	-	-
Nausea	10 (39)	-	-
Headache	9 (35)	-	-
Hypotension	7 (27)	2 (8)	-
Vomiting	6 (23)	-	-
Cytokine release syndrome	5 (19)	3 (12)	-
Myalgia	5 (19)	-	-
Abdominal pain	4 (15)	-	-
General pain	4 (15)	-	-
Flu-like symptoms	3 (11)	-	-
AST elevation	3 (11)	-	-

Safety findings among patients enrolled in Stage 2 are similar to those reported in detail for Stage 1

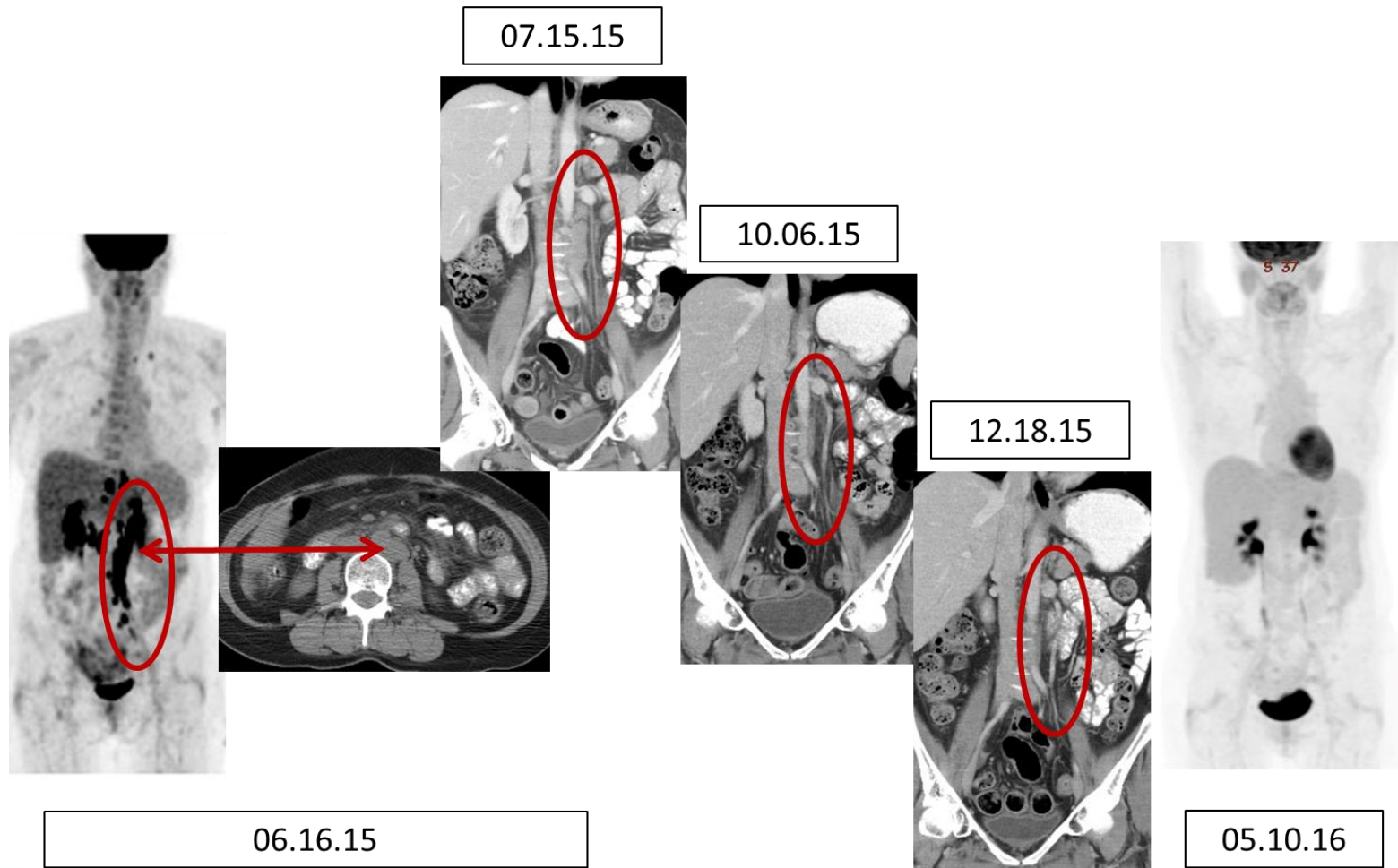
GOG/NRG-0265 Case Study:

Durable Complete Response to ADXS11-001

- 66-year-old woman diagnosed with squamous cell cancer of the cervix in 2006, surgically treated with radical hysterectomy in 2007
- Pelvic recurrence in 2014
 - Paclitaxel/carboplatin × 8 cycles (6 cycles with bevacizumab) → cisplatin (2 cycles) + pelvic radiation. Treatment completed August 2014
- Systemic recurrence June 2015
 - Enrolled in GOG/NRG-0265



GOG/NRG-0265 Case Study: Resolution of LN Mets (PET, Diagnostic CT)



Conclusions

- In patients with PRmCC and progression following ≥ 1 prior lines of systemic therapy, ADXS11-001 is well tolerated and demonstrates a 38.5% rate of 12-month survival (n = 10/26)
- Although preliminary, findings from stage 2 reinforce the rationale for further controlled investigation of ADXS11-001 in PRmCC, and suggest consistent survival benefit in a heavily bevacizumab-pretreated population (31% vs 83% in stage 1 and stage 2, respectively), particularly among those patients receiving 3 or more doses of immunotherapy
- An international Advaxis-sponsored phase III study of ADXS11-001 as adjuvant treatment of high-risk locally advanced cervical cancer (AIM2CERV) is under development in collaboration with the GOG Foundation