

GOG Partners

Cervical Trials in Progress: The Checkpoint Era

Leslie Randall, MD

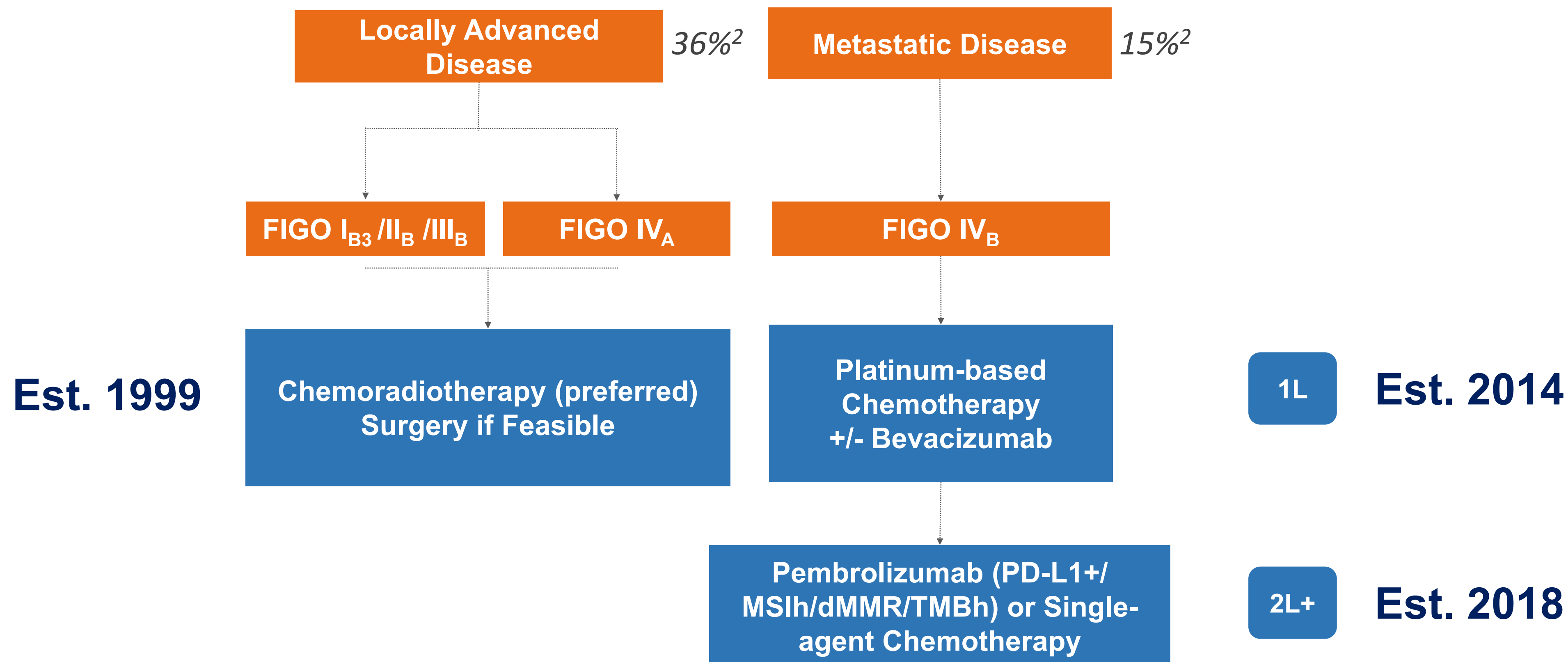
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Division of Gynecologic Oncology
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Virginia Commonwealth University**

**Clinical Advisor for Cervical Cancer Trials
GOG Partners**

GOG Partners Cervical Cancer Trials in Progress

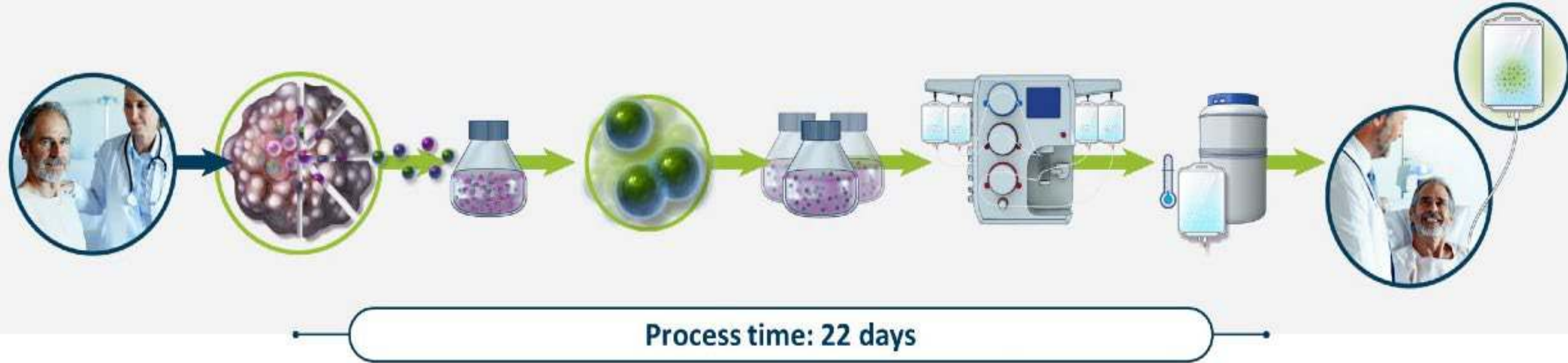
- **ENGOT Cx-11/GOG-3047/KEYNOTE-A18:** A Randomized, Phase 3, Double-Blind Study of Chemoradiotherapy With or Without Pembrolizumab for the Treatment of High-risk, Locally Advanced Cervical Cancer (US PI: Linda Duska, Co-PI: Ritu Salani)
- **GEICO 68-C/ENGOT Cx10/JGOG1084/GOG-3030:** Bevacizumab and Atezolizumab in Cervical Cancer (BEATcc): A Phase 3, Randomized Study of Chemotherapy and Bevacizumab with or without Atezolizumab for Metastatic, Recurrent, or Persistent Cervical Cancer (US PI: Leslie Randall, Co-PI: Katherine Moxley)
- **RaPiDS (GOG-3028):** A Randomized Phase II Study of Balstilimab (AGEN2034) as Monotherapy or in Combination with Zalifrelimab (AGEN1884) in Second-Line Cervical Cancer (US PI: Dave O'Malley, Co-PI: Camille Gunderson)

Cervical Cancer: Summary of High-Risk Disease Treatment¹

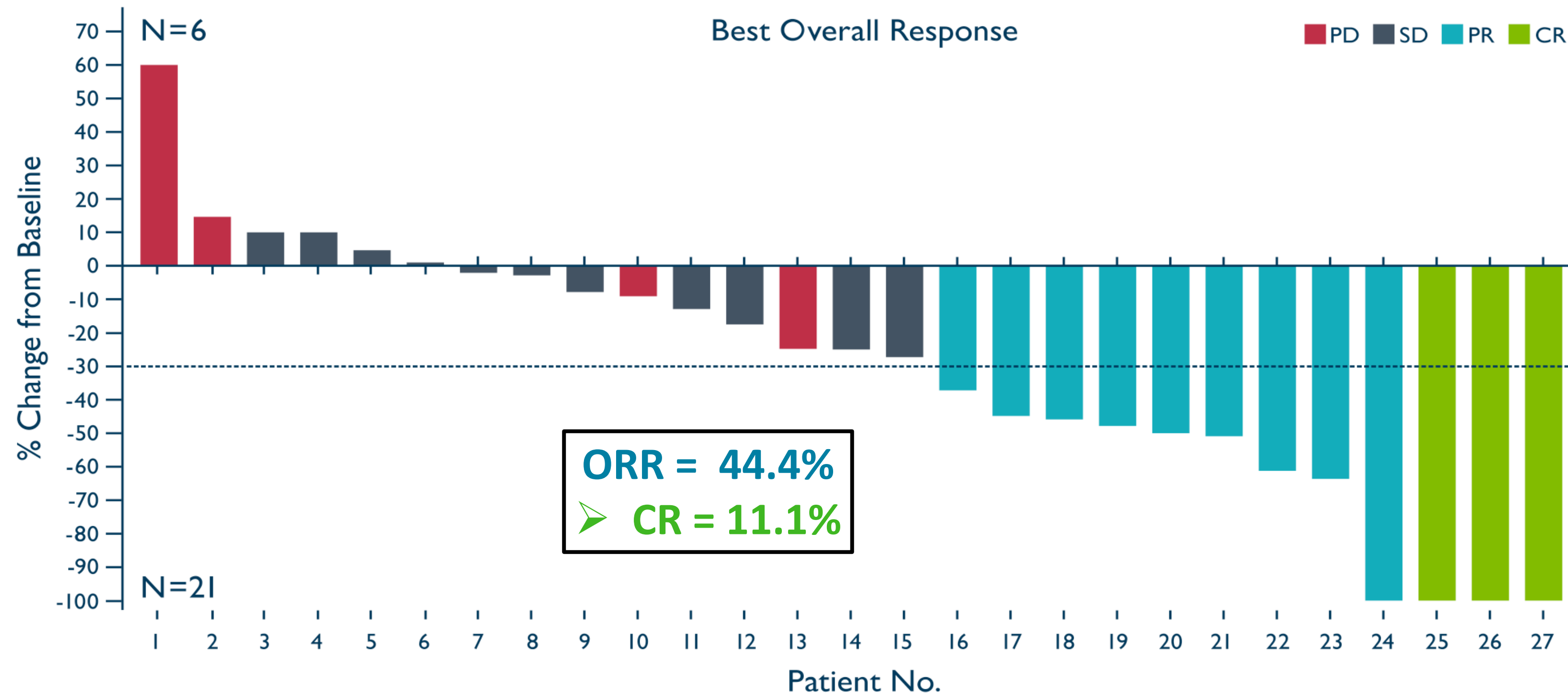


¹ [NCCN Cervical Cancer Guidelines v2.2019](#)

² [SEER Cancer Stat Facts: Cervical Cancer](#). National Cancer Institute. Bethesda, MD



Autologous TILs (LN-145) 2L+ FDA Breakthrough Designation

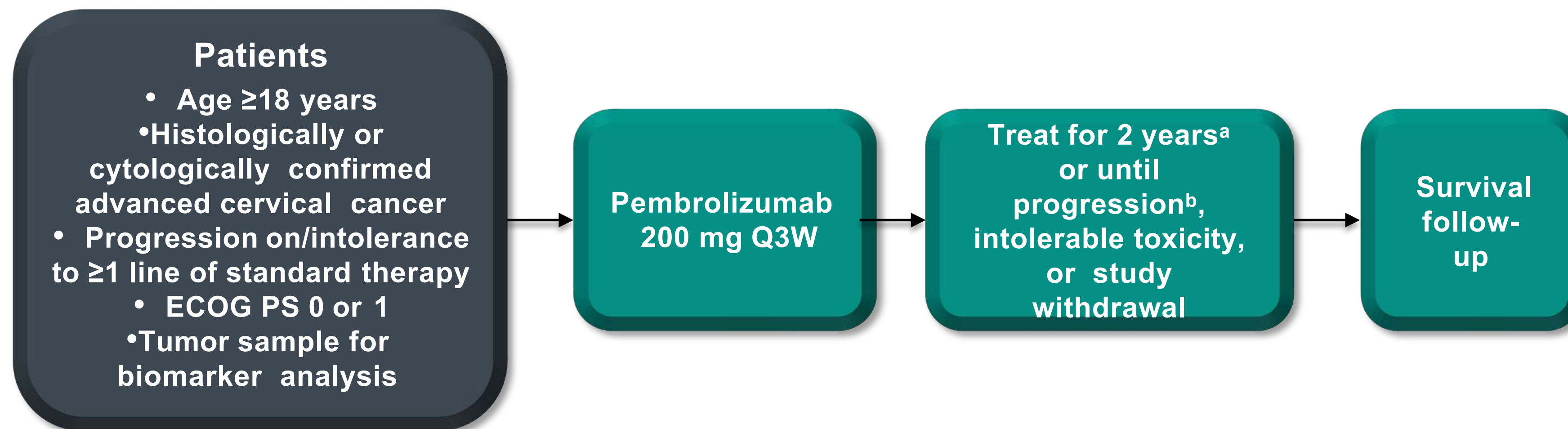


- 78% of patients had a reduction in tumor burden
- Median follow up is 7.4 months
- Mean number of TIL cells infused: 28×10^9
- Median number of IL-2 doses administered was 6.0

NCT03108495; Jazaeri AA et al. *J Clin Onc.* 2019;37(15)2538.

KEYNOTE-158: Study Design

- Ongoing, international, multicohort, open-label, phase 2 study of pembrolizumab in select advanced solid tumors that have progressed on standard-of-care therapy (NCT02628067)
- End points
 - Primary: ORR (RECIST v1.1, independent central review)
 - Secondary: DOR, PFS, OS



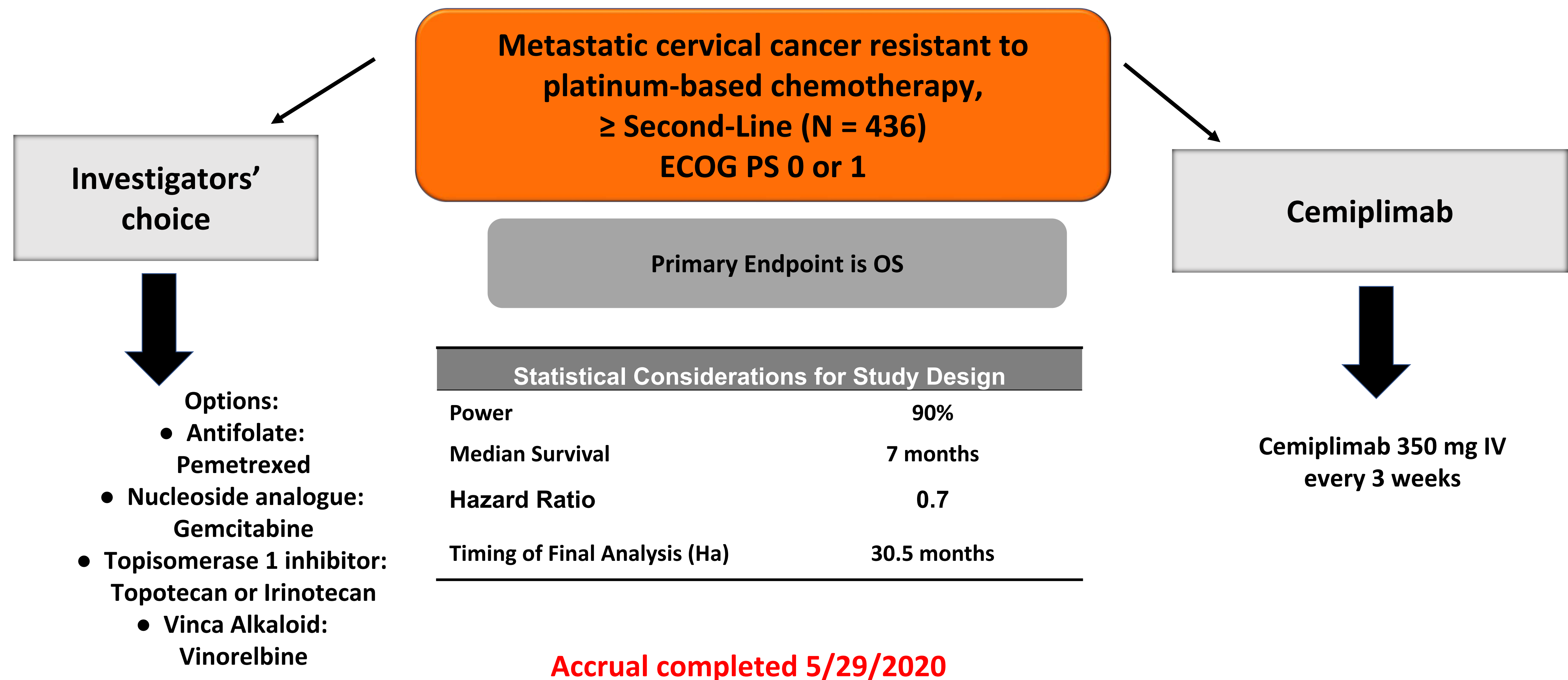
^aPatients with stable disease or better when pembrolizumab was discontinued and subsequent progressive disease were eligible to resume pembrolizumab for up to 1 year. ^bClinically stable patients remained on pembrolizumab until progressive disease was confirmed in a second assessment performed ≥4 weeks later. DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group Performance Status; OS, overall survival; ORR, objective response rate; PFS, progression-free survival; Q3W, once every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumors.

Summary of Response (RECIST v1.1, Central Review)

	Overall ^a N = 98	PD-L1 Positive ^b n = 82	PD-L1 Negative ^c n = 15
ORR, ^d % (95% CI)	14.3 (8.0-22.8)	17.1 (9.7-27.0)	0 (0-21.8)
Best overall response, n (%)			
Complete response	5 (5.1)	5 (6.1)	0
Partial response	9 (9.2)	9 (11.0)	0
Stable disease	16 (16.3)	13 (15.9)	3 (20.0)
Progressive disease	55 (56.1)	44 (53.7)	10 (66.7)
Non-evaluable ^e	4 (4.1)	3 (3.7)	1 (6.7)
No assessment ^f	9 (9.2)	8 (9.8)	1 (6.7)

^aIncludes 1 patient with unknown PD-L1 expression level. ^bCPS ≥1. ^cCPS <1. ^dAt the time of analysis, all responses were confirmed. ^eTarget lesions not captured on ≥1 post-baseline imaging assessment. ^fPost-baseline tumor assessment not performed. Data cutoff date: June 27, 2019.

GOG 3016/ENGOT-cx9: Randomized Phase III Trial of Cemiplimab Versus Investigator's Choice Chemotherapy in Cervical Cancer: "EMPOWER- CERVICAL 1"



EMPOWER/GOG 3016/ENGOT cx-9

Interim analysis press release 3.15.2021

	Median OS (mos.) Cemiplimab	Median OS (mos.) MD choice chemotherapy	HR (95% CI)
Intent to treat (ITT)	12	8.5	0.69 (0.56-0.84) p<0.001
Squamous cell histology	11	8.8	0.73 (0.58-0.91) p=0.003
Adenocarcinoma histology	13.3	7	0.56 (0.36-0.85) p<0.005
Toxicity-related treatment discontinuations in 8% cemiplimab vs 5% chemotherapy patients.			



ENGOT cx-11/GOG-3047/KEYNOTE-A18

A Randomized, Phase 3, Double-Blind Study of Chemoradiotherapy
With or Without Pembrolizumab for the Treatment of
High-risk, Locally Advanced Cervical Cancer

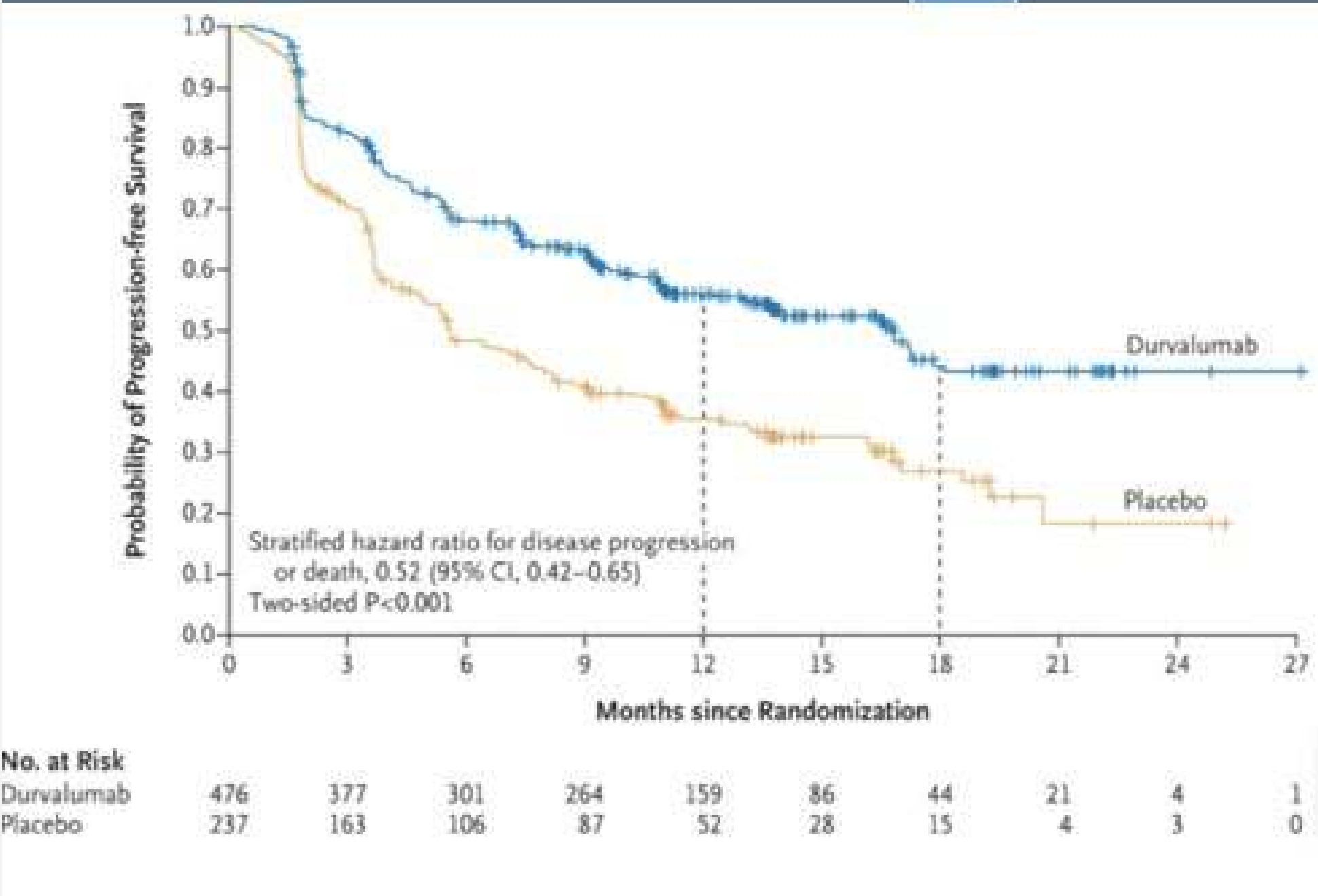
D. Lorusso¹; Y. Xiang²; N. Colombo³; R.L. Coleman⁴; L.M. Randall⁵; L. Duska⁶; K. Hasegawa⁷; A. Nogueira Rodrigues⁸; D. Cibula⁹; M. R. Mirza¹⁰; B. You¹¹; A. Oaknin¹²; M. Christiaens¹³; C. Taskiran¹⁴; J. Sehouli¹⁵; J. Korach¹⁶; C. Marth¹⁷; S. Keefe¹⁸; M. Puglisi¹⁸; S. Pignata¹⁹

ClinicalTrials.gov Identifier: NCT004221945

Sponsor: Merck Sharp & Dohme Corp.

PACIFIC: Phase III Trial of Durvalumab Post-CRT Maintenance for Locally-advanced, Unresectable NSCLC

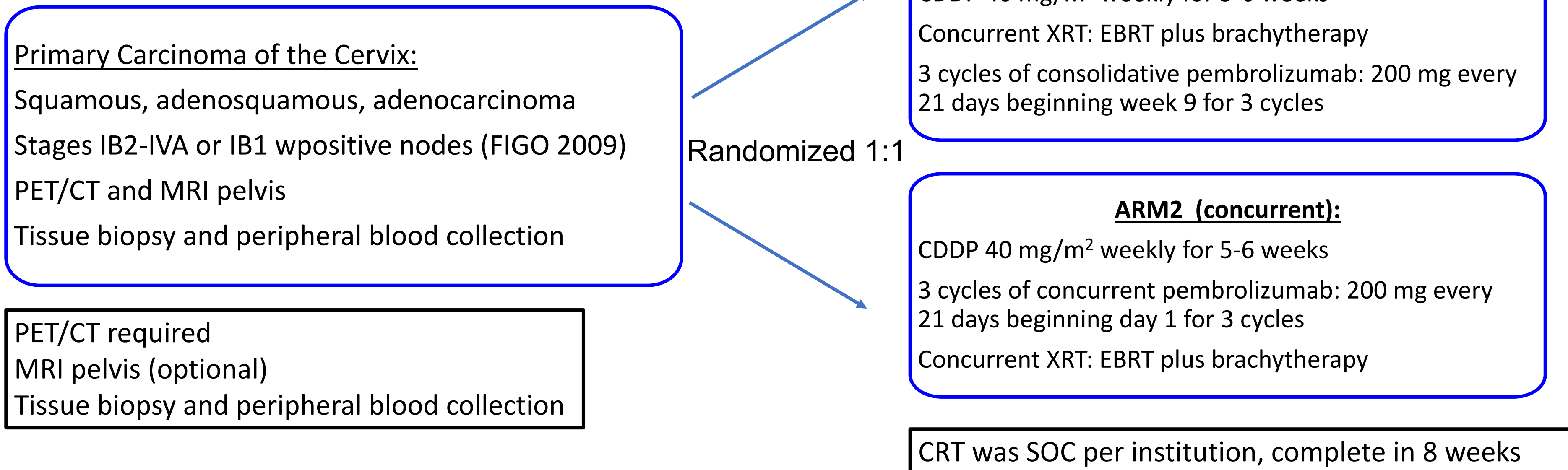
Study Population	R	Arms	Efficacy Endpoints
<ul style="list-style-type: none">NSCLC Stage 3 <u>Unresectable</u>Prior ≥2 cycles of platinum-based Tx with concurrent radiationN= 713	2:1	→ <u>Durvalumab</u> 10 mg/kg IV Q2W up to 12 months Vs → <u>Placebo</u>	Primary: PFS, OS Secondary: 12 mo PFS, 18 mo PFS, 24 mo OS, ORR, DOR, Time to death, Time to distant metastasis



	<u>Durvalumab</u>	<u>Placebo</u>
No of Events/ No of Patients	214/476	157/237
PFS (95% CI)	16.8 (13-18.1)	5.6 (4.6-7.8)
OS (95% CI)	NR (34.7 -NR)	28.7 (22.9-NR)
12 mo PFS (95% CI)	55.9 (51-60.4)	35.3 (29-41.7)
18 mo PFS (95% CI)	44.2 (37.7-50.5)	27 (19.9-34.5)
24 mo OS (95% CI)	66.3 (61.7-70.4)	55.6 (48.9-61.8)

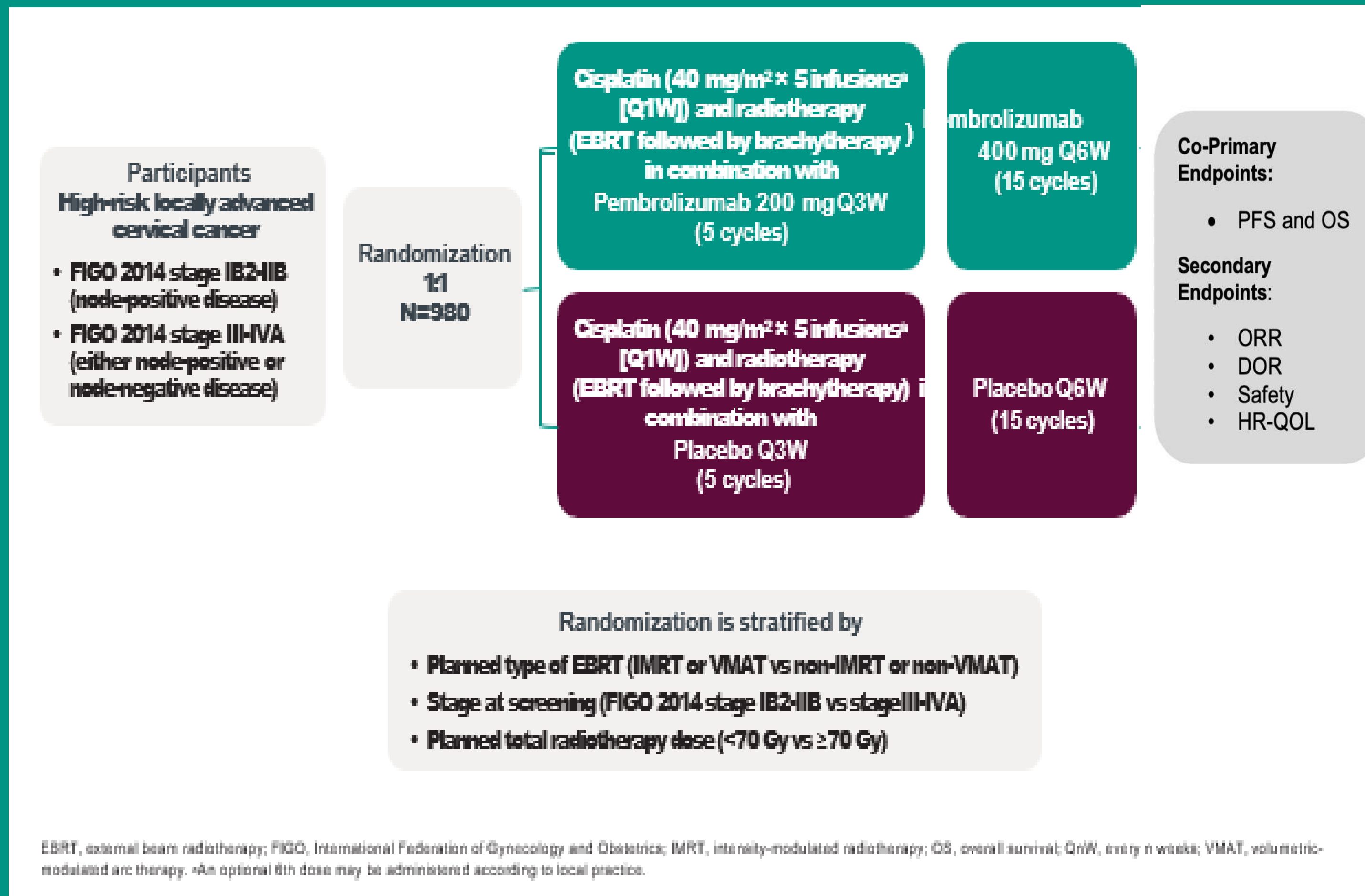
Antonia et al, NEJM 2017; Antonia et al, NEJM 2018

Duska, et al, SGO 2020: Randomized phase 2 translational study of pembrolizumab during and after CRT



GOG-3047/KEYNOTE-A18: Schema

Figure 2. ENGOT-cx11/GOG 3047/KEYNOTE-A18 Study Design





GEICO 68-C/ENGOT Cx10/JGOG1084/GOG-3030:

Bevacizumab and Atezolizumab in Cervical Cancer (BEATcc):
A Phase 3, Randomized Study of Chemotherapy and Bevacizumab with or without
Atezolizumab for Metastatic, Recurrent, or Persistent Cervical Cancer

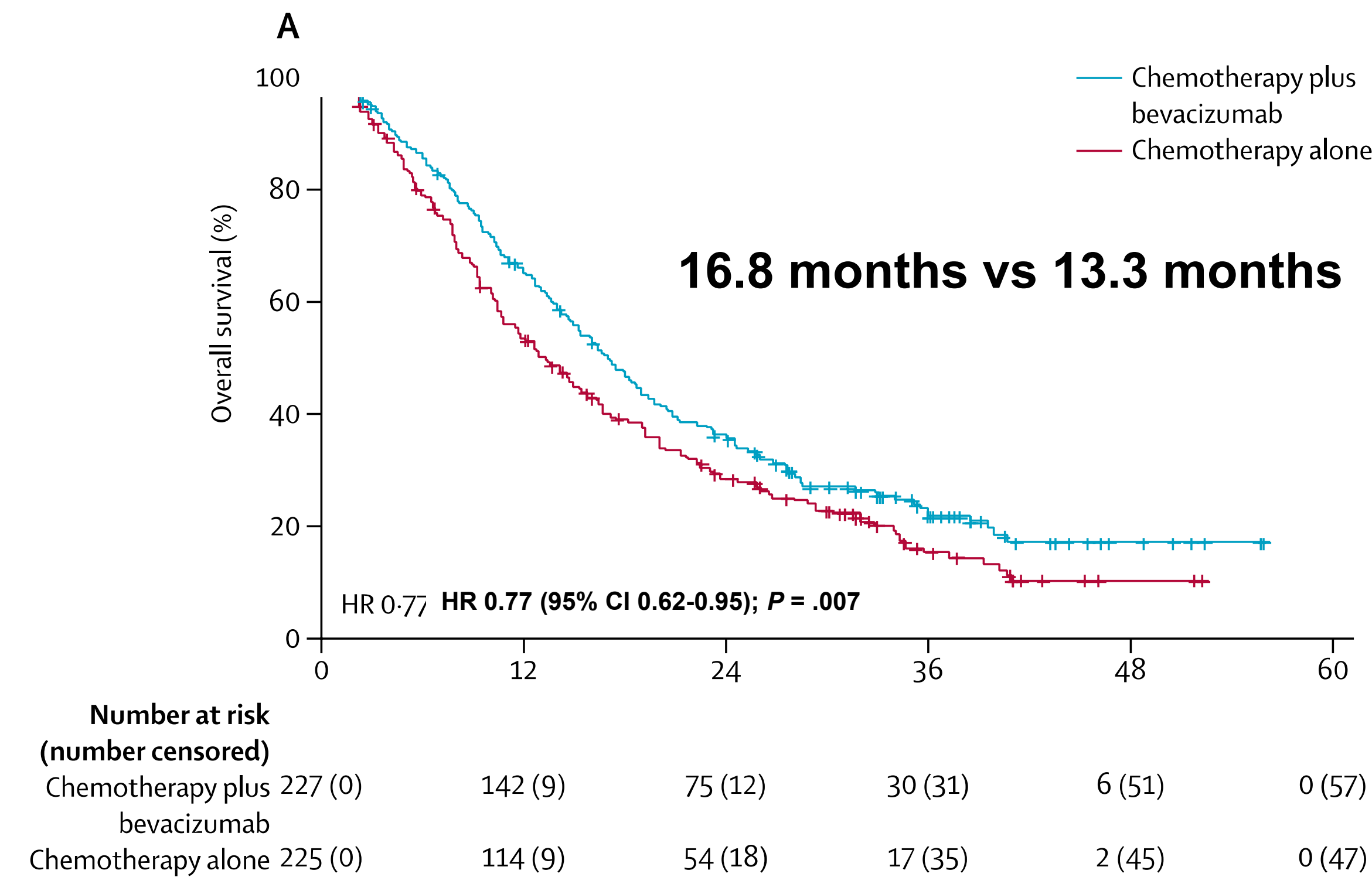
Leslie M. Randall¹, Laurance Gladieff², Munetaka Takekuma³, Hanna Dahlstrand⁴, Kristina Lindelmann⁵,
Ugo De Giorgi⁶, Nicoletta Colombo⁷, Linn Woelber⁸, Ana Oaknin⁹

ClinicalTrials.gov Identifier: NCT03556839

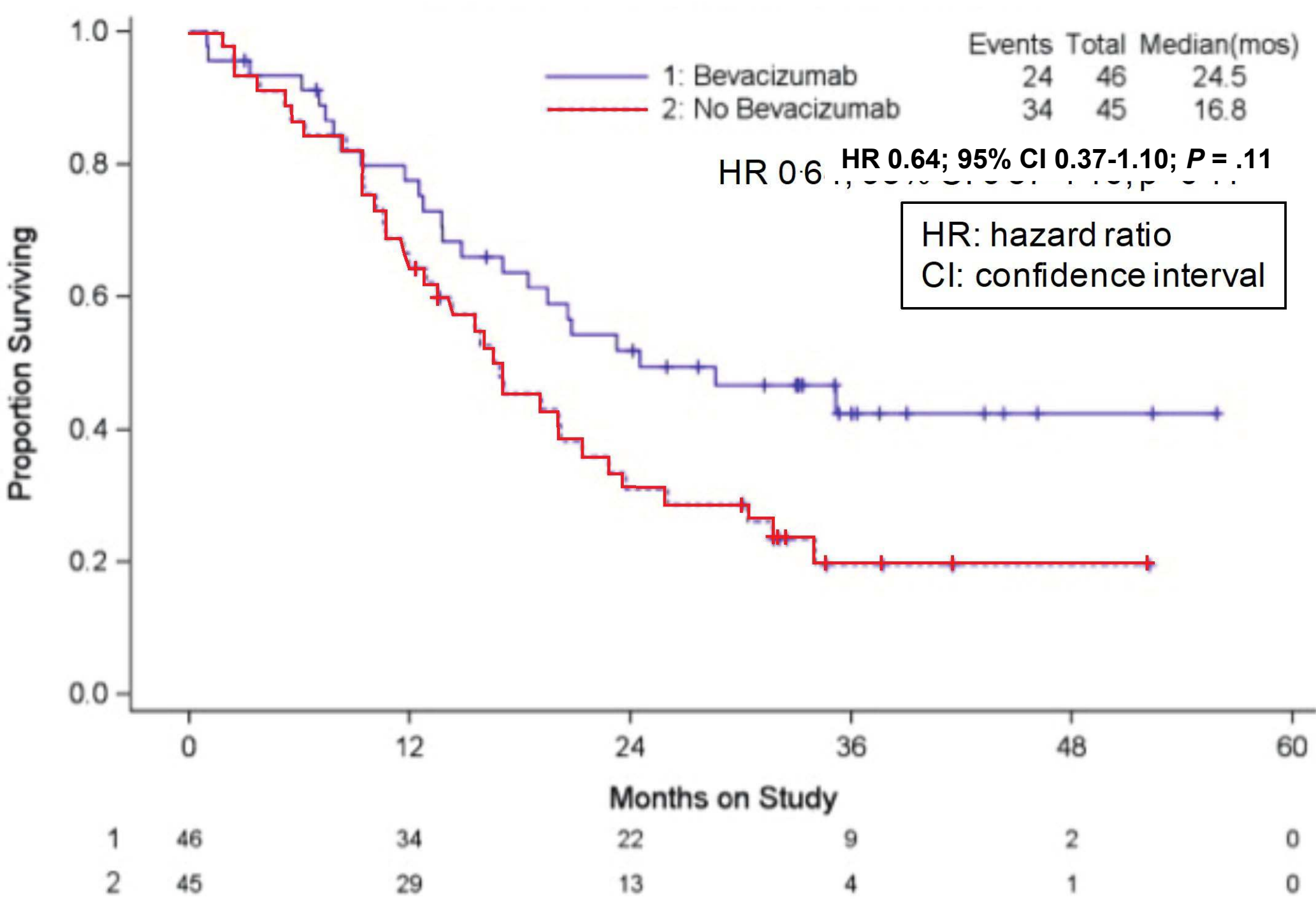
Sponsor: GEICO/Roche

GOG 240 : Mature OS

ITT



Not Previously Irradiated

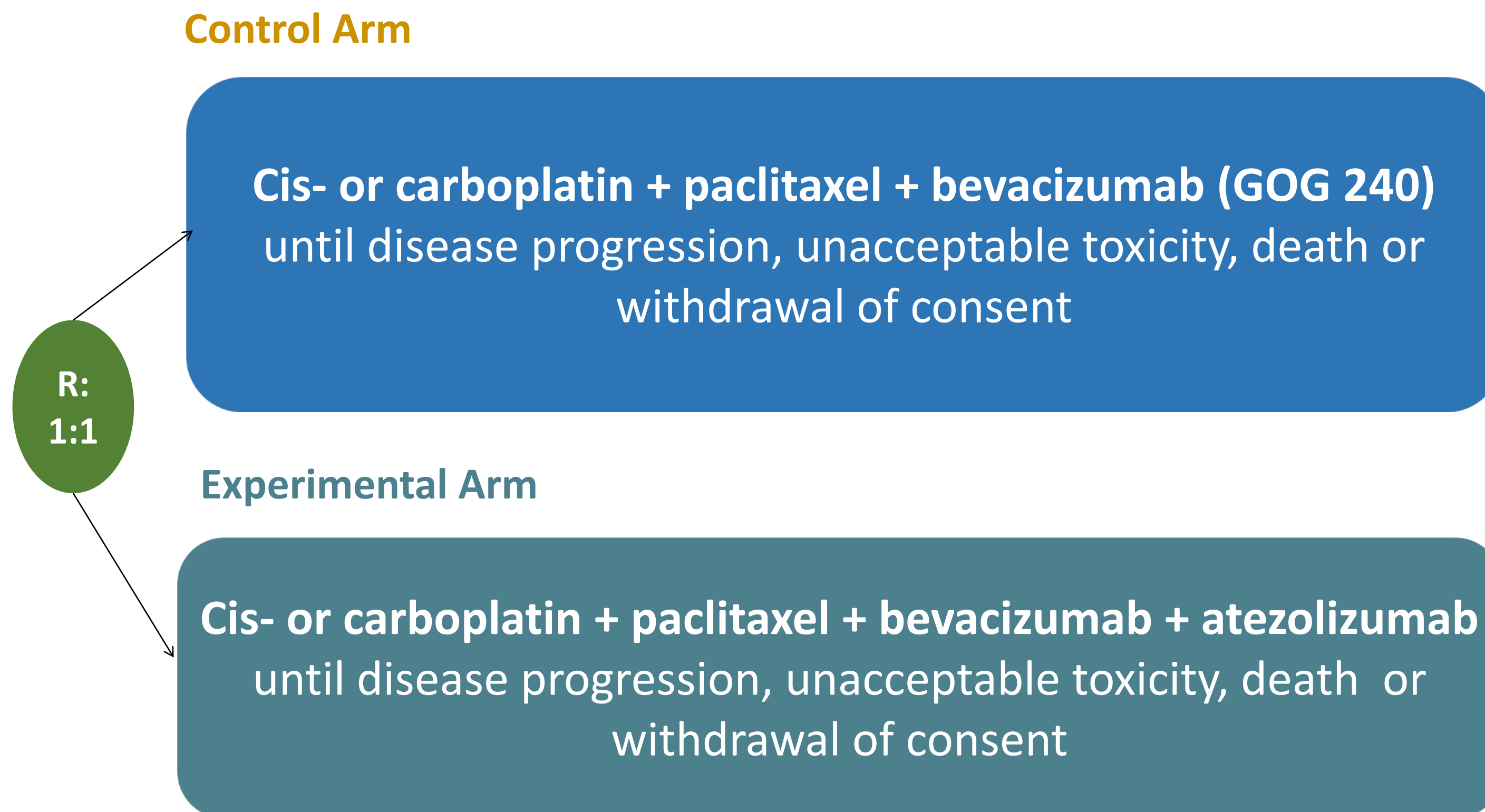


ITT, intent to treat

Tewari KS, et al. *Lancet*. 2017;390(10103):1654-1663.

BEATcc: Study Design

- Primary Stage IVB, persistent or recurrent carcinoma of the cervix
- Measurable disease by RECIST v1.1
- ECOG-PS: 0-1
- No previous systemic chemotherapy for advanced or recurrent disease
- Available tissue (archival or fresh)
- N=404 pts



Primary Endpoint:
Overall survival (OS)

Secondary Endpoints:

- PFS
- ORR
- DOR
- Safety
- HR-QOL

Stratification Factors:

- Prior ChemoRT
- Histology: SCC vs Adeno (including AdenoSquamous)
- Chemotherapy Backbone: Cisplatin vs Carboplatin

US BEAT cc/GOG-3030 Participating Sites

Institution Name	PI
LSU Shreveport	Destin Black
University of Virginia	Linda Duska
Lyndon Baines Johnson Hospital	Michaela Onstad
Women & Infants Hospital of Rhode Island	Cara Mathews
University of Oklahoma Health Sciences Center	Katherine Moxley
Virginia Commonwealth University	Leslie Randall
University of California, Irvine	Krish Tewari

RaPiDS (GOG-3028): A Randomized Phase II Study of Balstilimab as Monotherapy or in Combination with Zalifrelimab in Second-Line Cervical Cancer

David M O'Malley, Leslie M. Randall, Brent A. Blumenstein, Marek Ancukiewicz, Remigiusz Kaleta,
and Bradley J. Monk

ClinicalTrials.gov Identifier: NCT03894215
Sponsor: Agenus

Preliminary Data, ESMO 2020

Two Parallel, Single-arm Trials Testing Balstilimab Alone and with Zalifrelimab in Recurrent/Metastatic Cervical Cancer

Population

- Histologically confirmed SCC, ASC, AC of the cervix relapsed after platinum-based treatment
- Measurable baseline dx
- ECOG PS 0–1

Treatment

(for up to 24 mon)

Bal (n = 161)
3 mg/kg q2w
(NCT03104699)

Bal + Zal (n = 155)
Bal 3 mg/kg q2w+ Zal 1 mg/kg q6w
(NCT03495882)

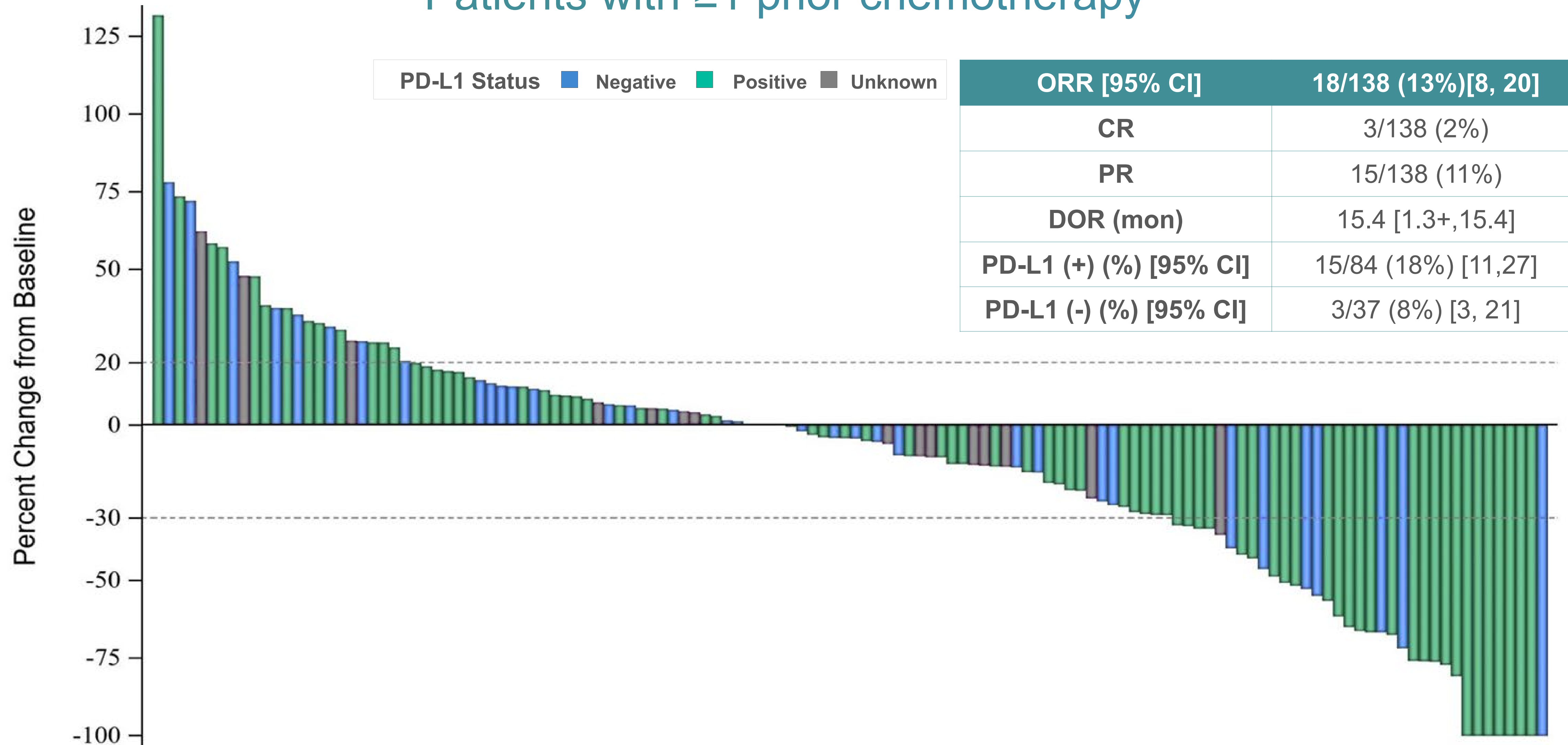
Follow-up

Imaging
every 6 wks
through 2 yrs

- **Primary endpoint:** Independent Review Committee (IRC) ORR by RECIST 1.1
- **Secondary endpoints:** OS, PFS, DOR

Tumor Response with Balstilimab Monotherapy

- Patients with ≥ 1 prior chemotherapy



•Tumor Response with Balstilimab plus Zalifrelimab

•Patients with ≥ 1 prior chemotherapy



FDA Grants Balstilimab/Zalifrelimab Dual Immunotherapy Fast Track Designation in Cervical Cancer

March 12, 2020

Jason M. Broderick



Relevant Topics ▼

The FDA has granted a Fast Track designation to the combination of the PD-1 inhibitor balstilimab and the CTLA-inhibitor zalifrelimab for the treatment of patients with relapsed or refractory metastatic cervical cancer.

GOG-3028 - A Two Arm, Randomized, Non Comparative Blinded Phase 2 Trial of AGEN2034 (anti PD-1) as a Monotherapy or in Combination Therapy with AGEN1884 (anti-CTLA4) or with Placebo in Women with Recurrent Cervical Cancer (Second Line) – RaPiDS

Patient Eligibility

- Cervical cancer that has relapsed after a platinum-based treatment (first line) regimen for advanced (recurrent, unresectable, or metastatic) disease
- Measurable disease on imaging based on RECIST version 1.1
 - ECOG PS ≤ 1
- sufficient and adequate formalin-fixed paraffin embedded (FFPE)

Randomization 1:1

Treatment up to 24 months

Balstilimab (300 mg) every 3 weeks
Placebo every 6 weeks

Balstilimab (300 mg) every 3 weeks
Zalifrelimab (1 mg/kg) every 6 weeks

Primary Endpoint

- ORR according to RECIST 1.1

Thank You!!
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