



12° CONGRESSO NAZIONALE AIOM GIOVANI



Perugia, 6-7 Luglio 2018

# Palbociclib for mBC in real-world: a monocentric prospective study exploring efficacy (according to prior treatments), safety and subsequent therapies

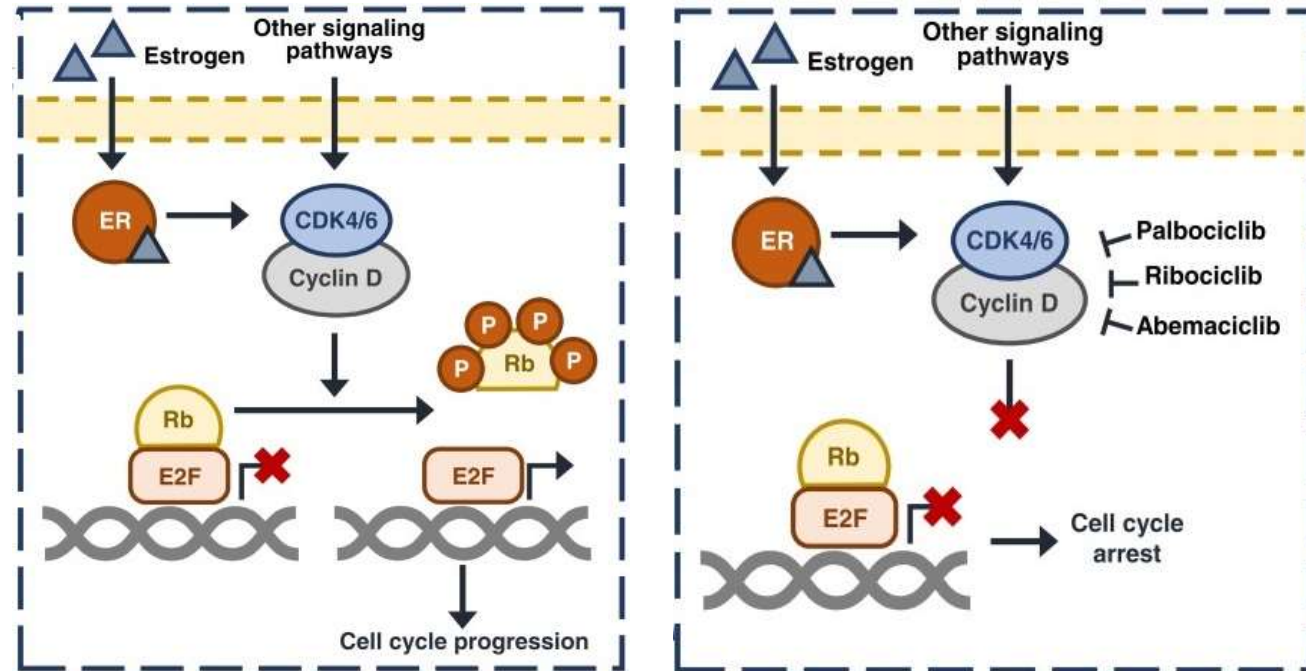
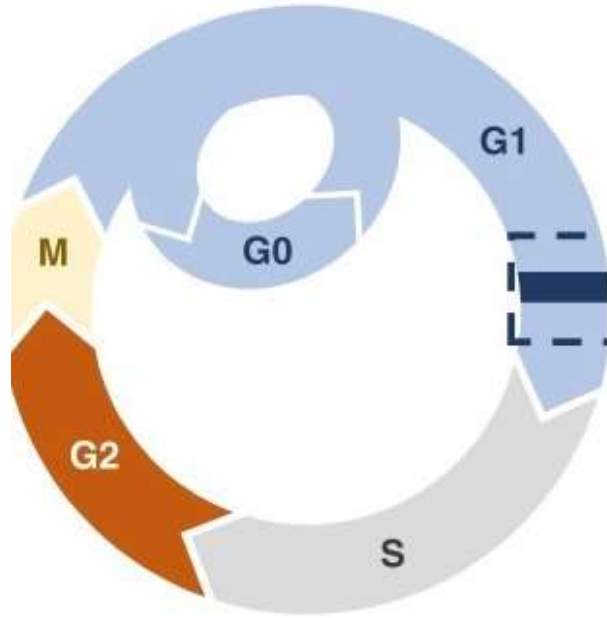
Menichetti A, Giorgi CA, Mantiero M, Giarratano T, Vernaci G, Miglietta F, Faggioni G, Frezzini S, Mioranza E, Falci C, Tasca G, Griguolo G, Boscolo A, Di Liso E, Ghiotto C, Guarneri V, Dieci MV



*Università degli Studi di Padova*  
*Istituto Oncologico Veneto IRCCS*



# BACKGROUND: CDK 4/6 inhibitors

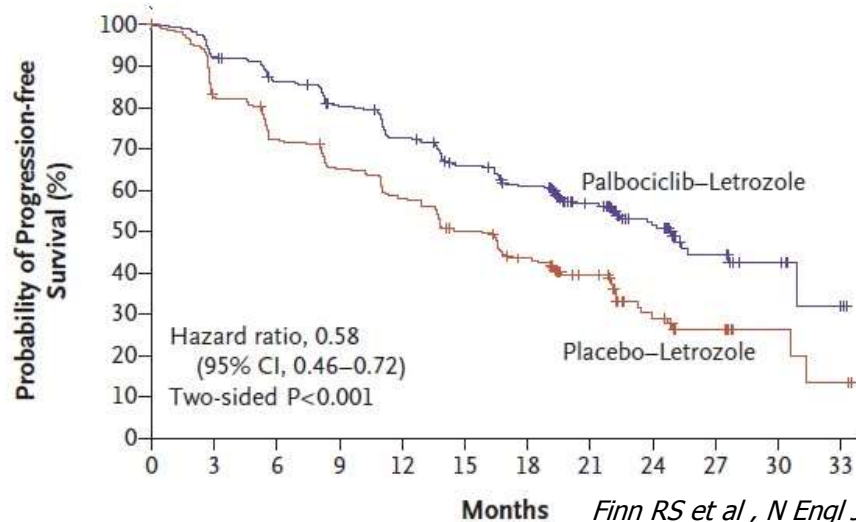
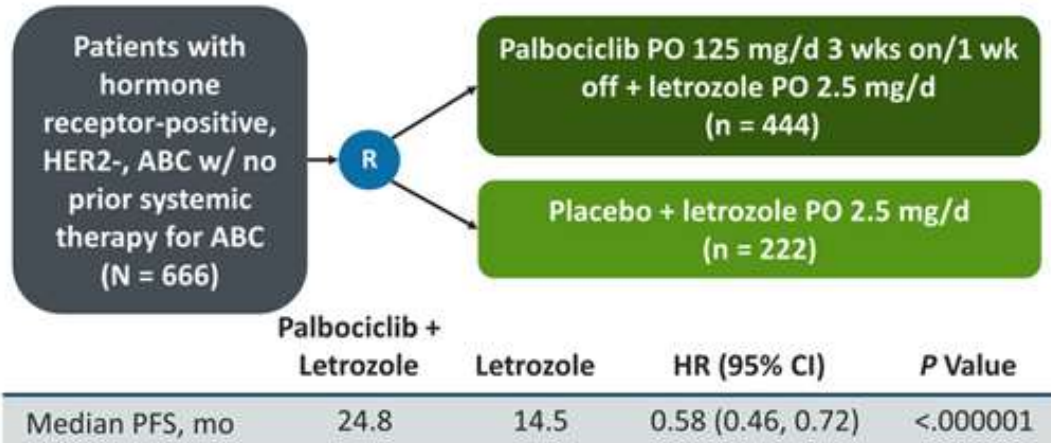


Sammons SL et al, *Curr Cancer Drug Target* 2017

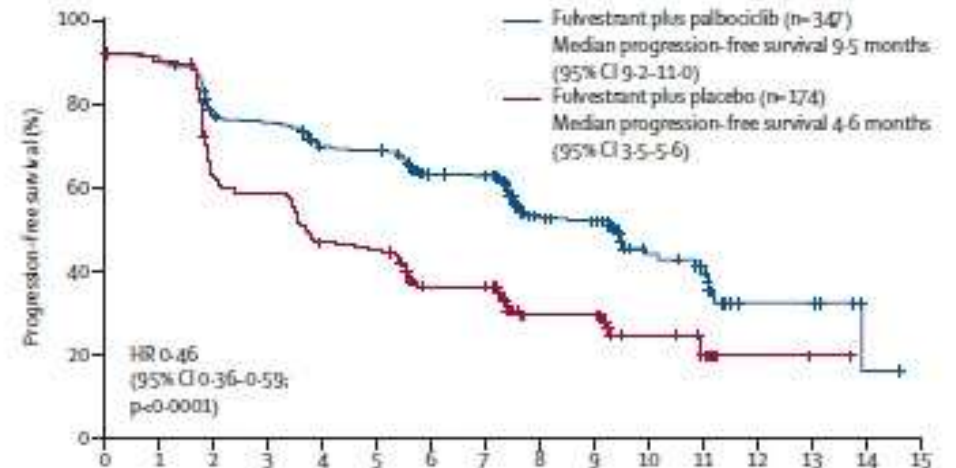
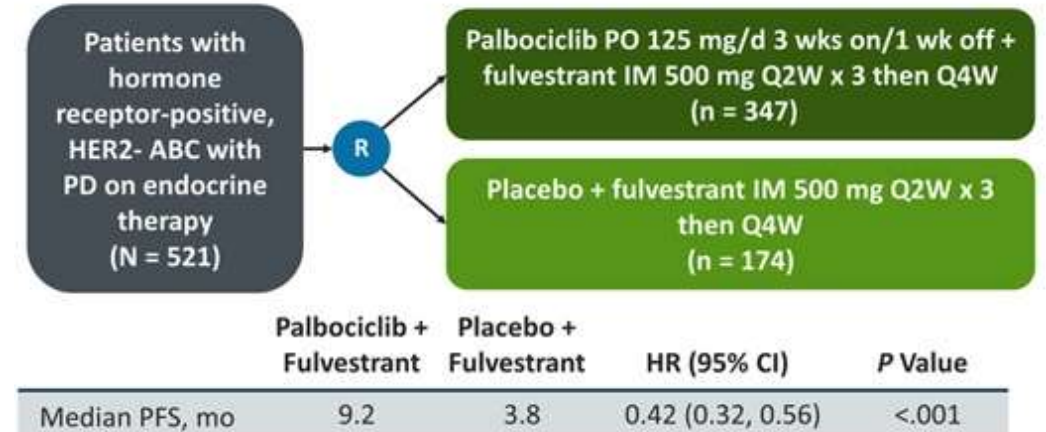
FDA-approved	Dose	Schedule	Indications
<b>Palbociclib</b>	125 mg daily	3 weeks on/1 week off	<b>First line, AI-sensitive with AI</b> <b>Progressing after ET, with Fulvestrant</b>
<b>Ribociclib</b>	600 mg daily	3 weeks on/1 week off	<b>First line, AI-sensitive with AI</b>
<b>Abemaciclib</b>	150 mg or 200 mg daily	Continuous	<b>First line, AI-sensitive with AI</b> <b>Progressing after ET with Fulvestrant</b> <b>Monotherapy after progression on ET and CT</b>

# BACKGROUND: palbociclib

## First line setting: PALOMA 2



## Progression after ET: PALOMA 3



# METHODS

- Observational, single-institution, prospective study
- Approved by ethics committee
- From May 2017 to January 2018 (timeframe between AIFA palbociclib approval and price negotiation)

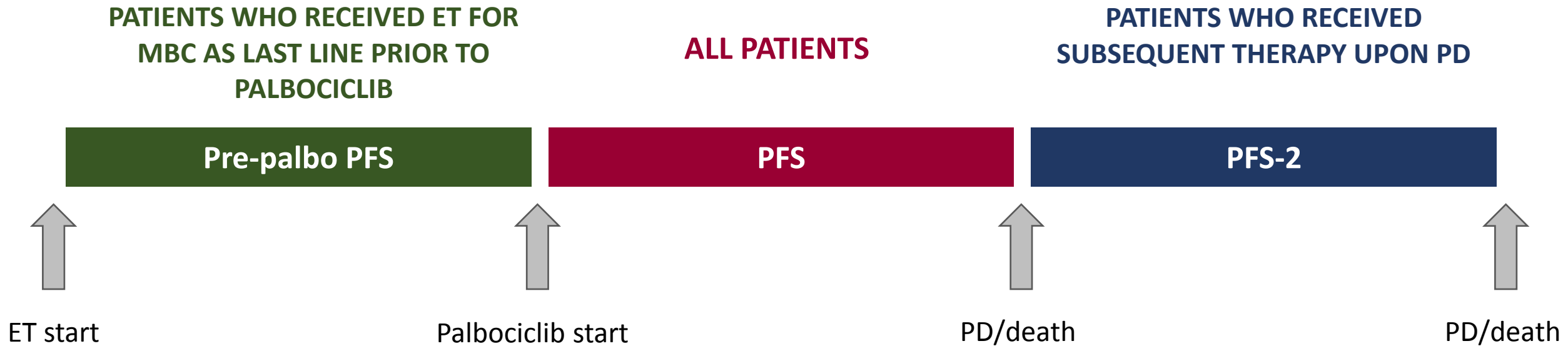
## Study Population

- Pre and postmenopausal women and men with HR positive, HER2 negative MBC
- **Palbociclib + ET** (Fulvestrant or AI) in any line of treatment following specific nominal concession

## Endpoints

- ORR RECIST 1.1
- PFS
- Safety (AEs NCTCAE v4.0)

# METHODS: survival endpoints



# RESULTS: patients' baseline characteristics

N = 62

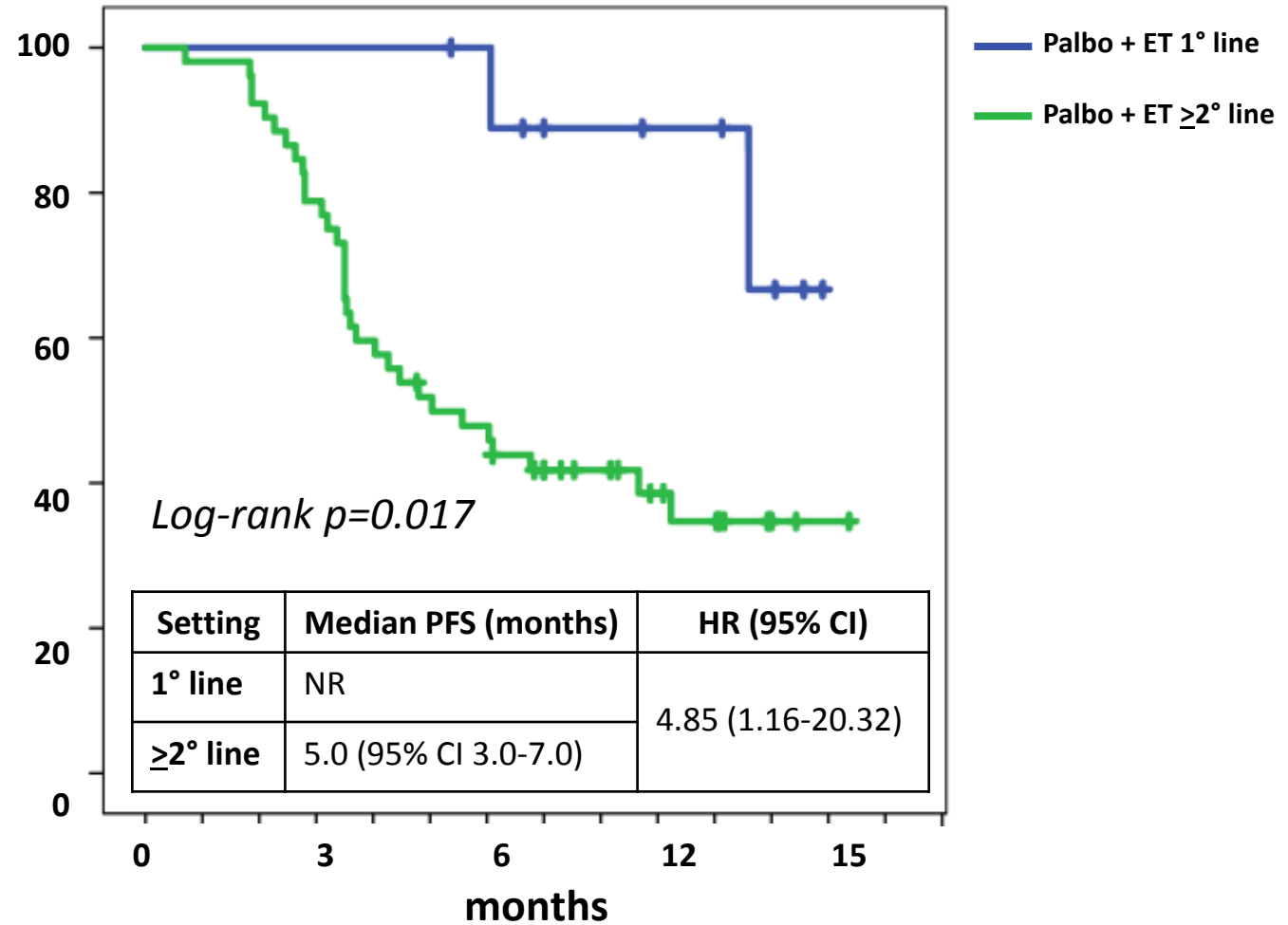
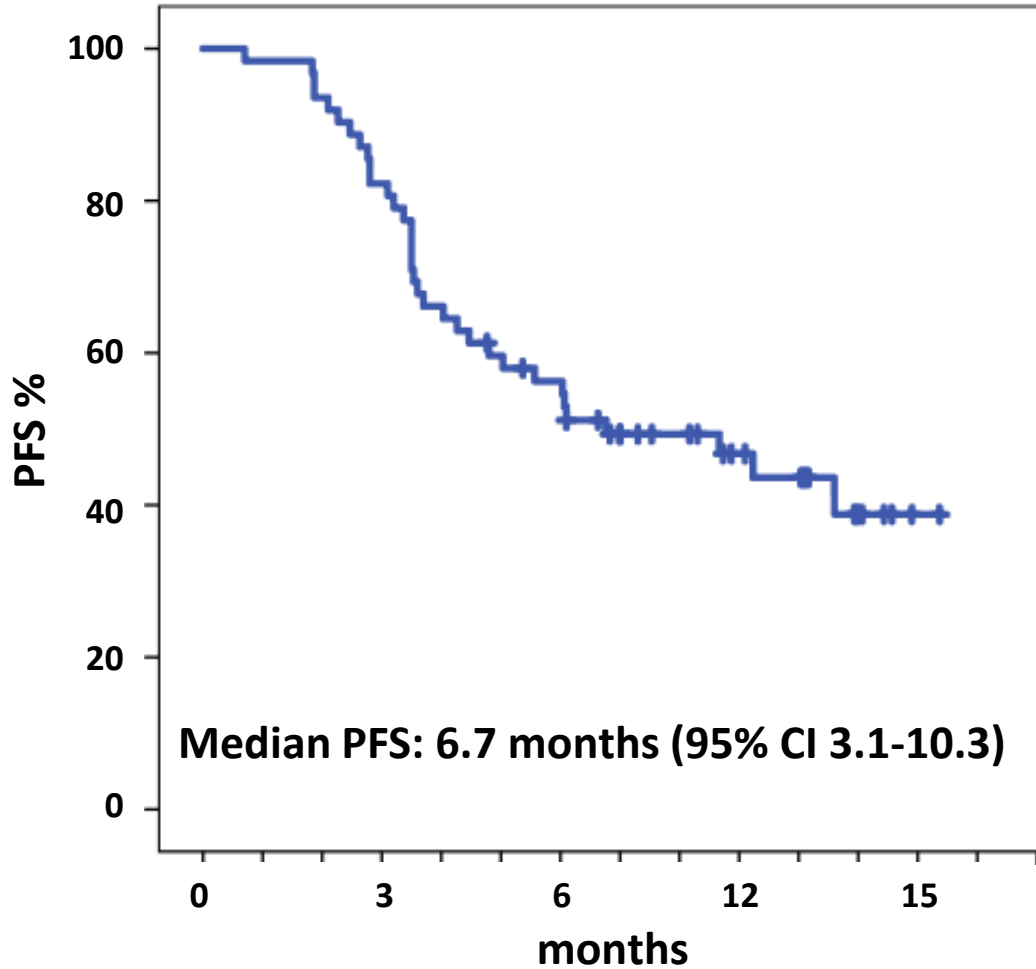
Characteristic		n (%)
<b>Age</b>	Median (range)	57.5 (36-78)
<b>Sex</b>	Female Male	61 (99) 1 (1)
<b>Performance Status (ECOG)</b>	0 -1 2	56 (90.3) 6 (9.7)
<b>Menopausal Status</b>	Premenopausal Postmenopausal	7 (11.5) 54 (88.5)
<b>TFI from the end of adjuvant ET to first relapse</b>	Stage IV at diagnosis No adjuvant ET ≤12 months >12 months	15 (24.2) 11 (17.7) 24 (38.7) 12 (19.4)

Characteristic		n (%)
<b>Site of metastatic disease</b>	Bone-only Visceral +/- bone	11 (17.7) 51 (82.3)
<b>Previous CT lines for metastatic disease</b>	No Yes	27 (43.5) 35 (56.5)
<b>Previous ET for metastatic disease</b>	No Yes	13 (21.0) 49 (79.0)
<b>Previous everolimus + AI</b>	No Yes	51 (82.3) 11 (17.7)
<b>Setting of palbociclib treatment</b>	1° line ≥ 2° line	11 (16.2) 51 (83.8)
<b>Palbociclib association</b>	AI Fulvestrant <i>Fulv-naïve</i> <i>Fulv-pretreated</i>	16 (25.8) 46 (74.2) 22 (47.8) 24 (52.2)

# RESULTS: PFS

Median follow-up: 9.7 months

Tot PFS events: 34



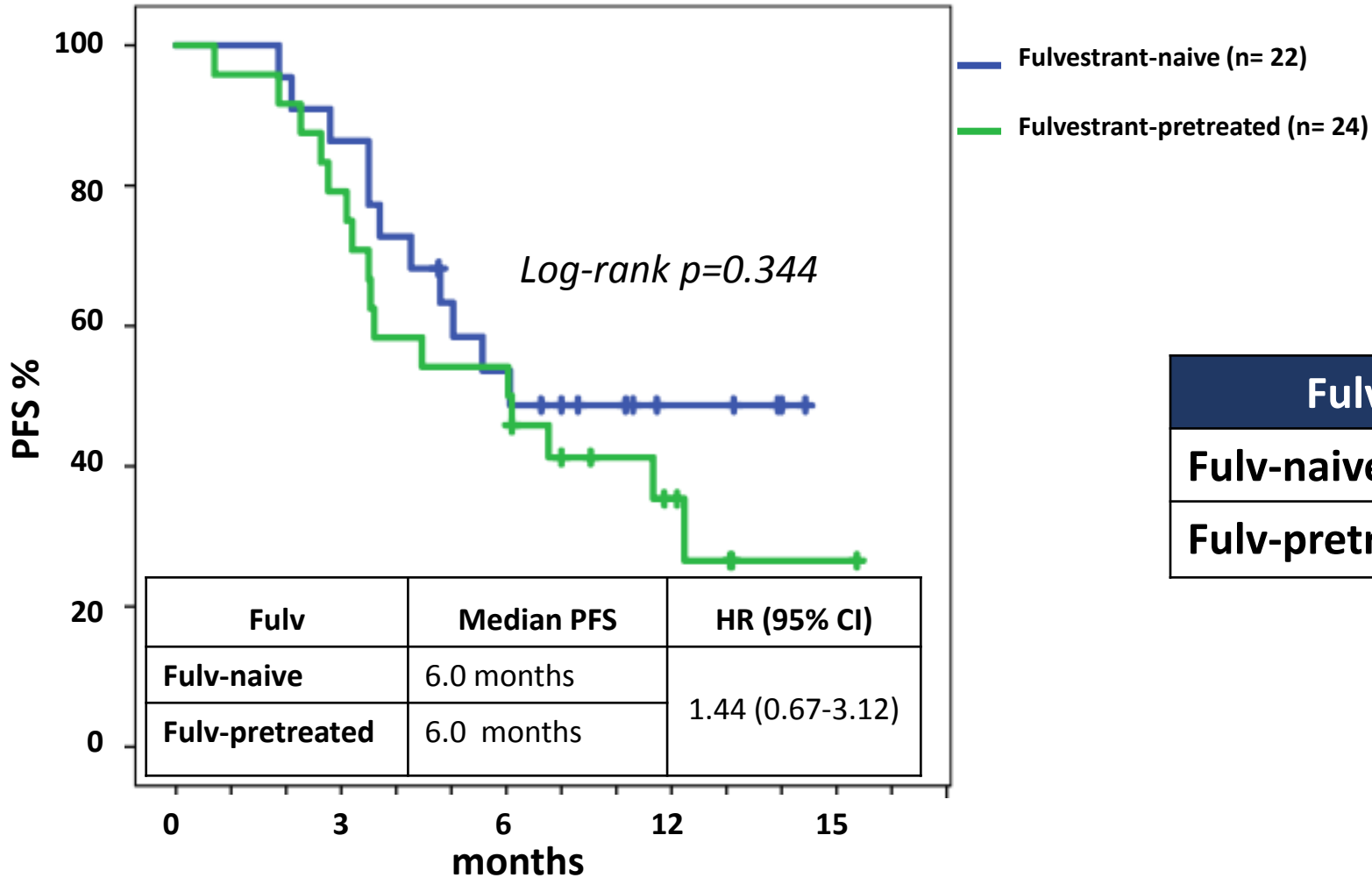
# RESULTS: ORR

<b>Best response</b>	<b>Overall, n (%)</b> <b>n = 51</b>	<b>1° line, n (%)</b> <b>n = 7</b>	<b>≥2° line, n (%)</b> <b>n = 44</b>
<b>CR</b>	0 (0.0)	0 (0.0)	0 (0.0)
<b>PR</b>	11 (17.8)	2 (20.0)	9 (17.3)
<b>SD</b>	17 (27.4)	5 (50.0)	12 (23.1)
<b>PD</b>	23 (37.1)	0 (0.0)	23 (44.2)



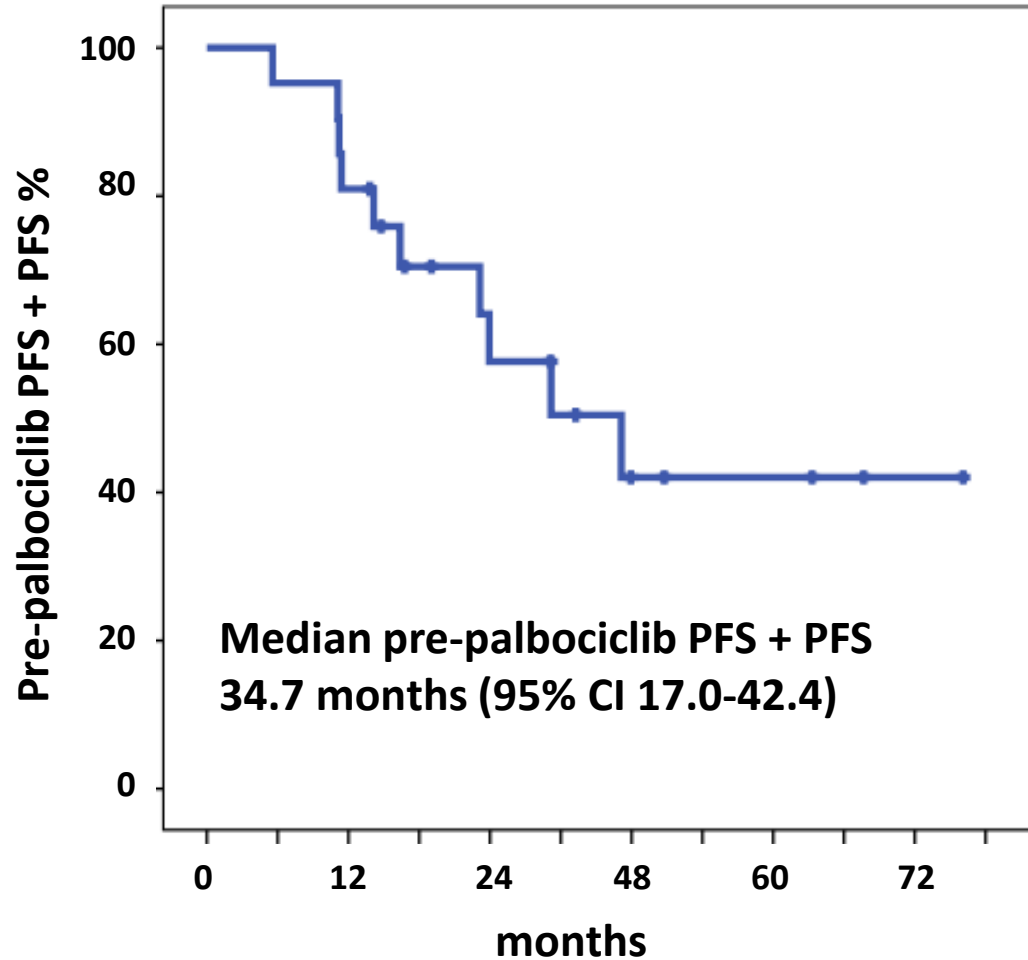
# RESULTS: PFS according to prior therapy

## efficacy of palbociclib + Fulv according to prior Fulv exposure



Fulv	$\geq 3^{\circ}$ lines	
Fulv-naive	46%	<b>p 0.002</b>
Fulv-pretreated	88%	

# RESULTS: pre-palbociclib PFS + PFS



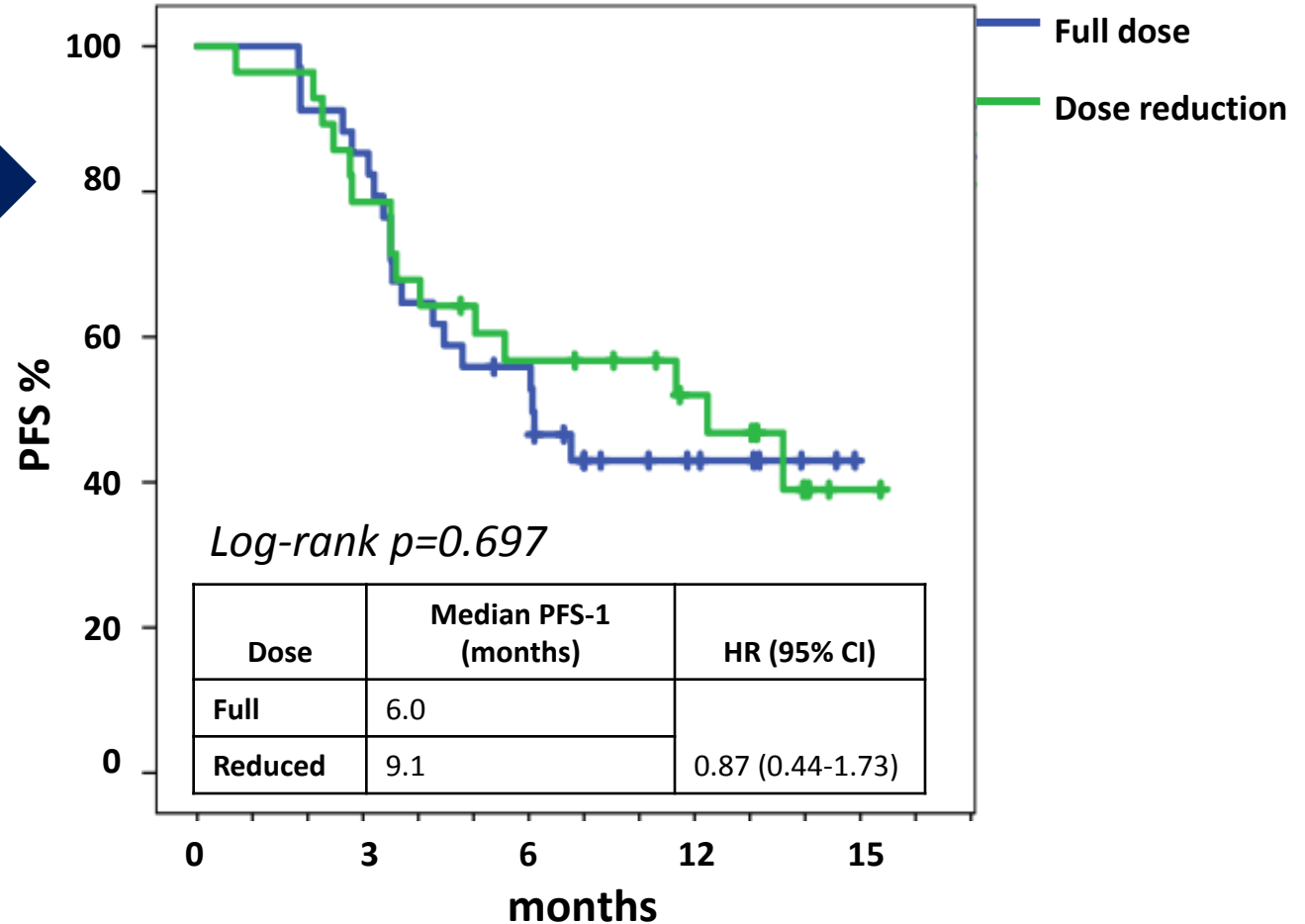
Characteristic (n = 21)		n (%)
<b>Site of metastatic disease</b>	Bone-only	12 (57.1)
	Visceral +/- bone	9 (42.9)
<b>TFI from the end of adjuvant ET to first relapse</b>	Stage IV at diagnosis	4 (19.0)
	No adjuvant ET	4 (19.0)
	<12 months	6 (28.6)
	≥12 months	7 (33.3)

# RESULTS: safety

AE	Any grade	G1-2	G3	G4
<b>Hematologic toxicity</b>	61 (98.4)			
Neutropenia	60 (96.8)	14 (22.6)	35 (56.5)	11 (17.7)
Febrile Neutropenia	2 (3.2)			
Thrombocytopenia	38 (61.3)	30 (48.4)	7 (11.3)	1 (1.6)
Anaemia	41 (66.1)	39 (62.9)	2 (3.2)	0 (0.0)
<b>Non-hematologic toxicity</b>	44 (71.0)			
Increased AST and/or ALT	33 (53.2)	27 (43.6)	5 (8.1)	1 (1.6)
Stomatitis	7 (11.3)	7 (11.3)	0 (0.0)	0 (0.0)
Nausea	5 (8.1)	4 (6.4)	1 (1.6)	0 (0.0)
Vomiting	2 (3.2)	2 (3.2)	0 (0.0)	0 (0.0)
Diarrhoea	6 (9.7)	6 (9.7)	0 (0.0)	0 (0.0)
Fatigue	14 (22.6)	13 (20.9)	1 (1.7)	0 (0.0)
Rash	1 (1.6)	1 (1.6)	0 (0.0)	0 (0.0)

# RESULTS: dose reductions and interruptions

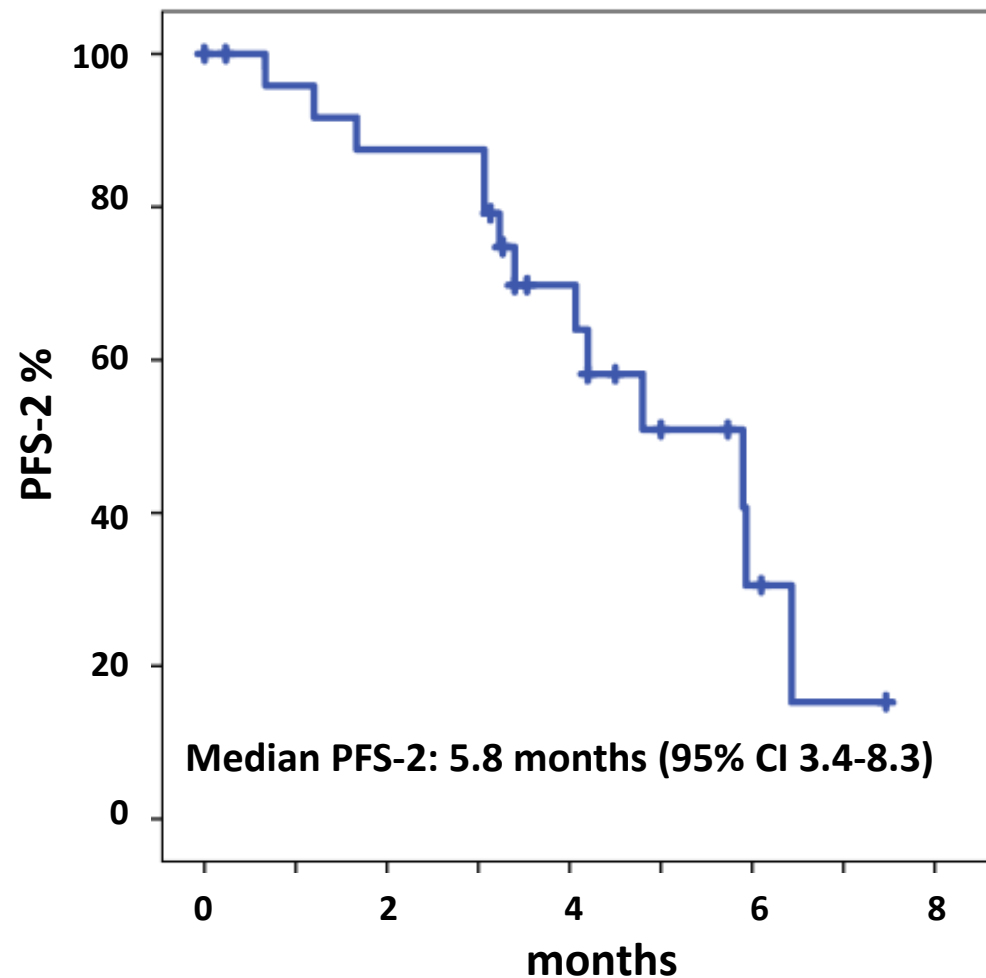
Characteristic	Frequency (%)
<b>Dose reduction</b>	
Yes	28 (45.2)
No	34 (54.8)
<b>Temporary Interruption</b>	
Yes	17 (27.4)
Hematologic toxicity	8 (47.1)
Non-hematologic toxicity	3 (17.6)
Surgical procedures	6 (35.3)
No	45 (72.6)
<b>Definitive Interruption</b>	
Yes	35 (56.5)
Disease progression	34 (97.1)
Toxicity	1 (2.9)
No	27 (43.5)



# RESULTS: subsequent therapy and PFS-2

Treatment post-palbociclib	Frequency (%)
<b><u>Systemic anticancer treatment</u></b>	26 (76.5)
<b>Chemotherapy</b>	24 (92.3)
Caelyx	4 (15.4)
Capecitabine	7 (26.9)
Carboplatin + Gemcitabine	1 (3.8)
Eribuline	6 (23.1)
Nab-paclitaxel	5 (19.3)
MTX – Ciclofosfamide	1 (3.8)
<b>Endocrine Therapy</b>	2 (7.7)
Everolimus + Exemestane	2 (7.7)
<b><u>Best Supportive Care</u></b>	8 (23.5)

Best Response	Frequency (%)
CR	0 (0.0)
PR	1 (4.2)
SD	15 (62.5)
PD	8 (33.3)



# CONCLUSIONS

- Efficacy of palbociclib + ET treatment in real-world setting.

## PALOMA-3

Median PFS 9.5 months

- **59%** visceral disease
- **33%** CT for metastatic disease
- **0%** previous everolimus + AI

## Our experience

Median PFS 6.7 months

- **82%** visceral disease
- **43%** more than 3 lines of CT
- **18%** previous everolimus + AI

## Other real-world experience

Median PFS 5.8 months

- **83%** visceral disease
- **53%** more than 2 lines of CT
- **100%** previous everolimus

Du Rusquec P. et al, 2017

- Safety was in line with results pivotal trials.

# CONCLUSION and DISCUSSION

## Relevant clinical questions addressed:

- No differences in PFS between fulvestrant-naïve vs fulvestrant-pretreated patients. Is there a possibility for treatment re-challenge? (Malorni L. et al, Ann Oncol 2018)
- No differences in PFS between patients treated with full-dose vs patients who required dose reduction confirmed in a real-world setting. (Verma S et al, Oncologist 2016)
- Some patients can achieve a long benefit from ET followed by palbociclib combination. How to select these patients?
- Chemotherapy is recommended by guidelines after the exhaustion of endocrine sensitivity. Our results confirm the role of cytotoxic treatment in this setting, by showing efficacy after ET+CDK4/6 inhibitors.

# ACKNOWLEDGMENTS

**Division of Medical Oncology 2, Istituto Oncologico Veneto IRCCS, Padova**



Prof. PierFranco Conte

Prof. Valentina Guarneri

Dott.ssa Maria Vittoria Dieci

Dott.ssa Mara Mantiero

Dott. Carlo Alberto Giorgi

Dott. Tommaso Giarratano

Dott. Giovanni Faggioni

Dott.ssa Grazia Vernaci

Dott.ssa Simona Frezzini

Dott.ssa Giulia Tasca

Dott.ssa Federica Miglietta

Dott.ssa Gaia Griguolo

Dott.ssa Eleonora Mioranza

Dott.ssa Cristina Falci

Dott.ssa Elisabetta Di Liso

Dott.ssa Cristina Ghiotto

