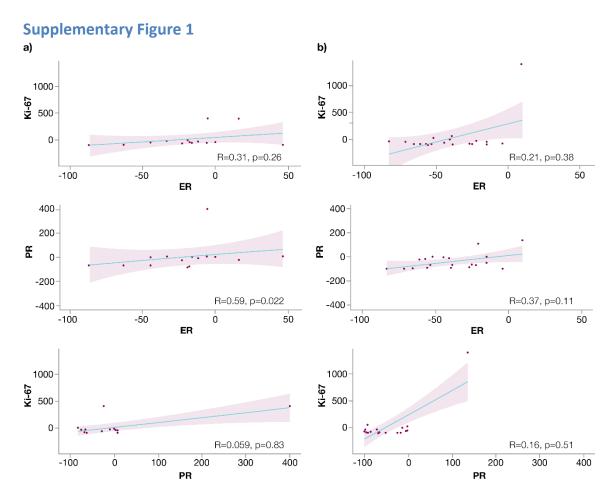
Supplementary materials

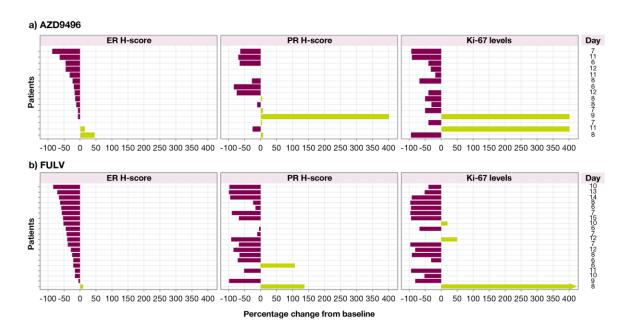


Supplementary Figure 1: Correlation between percentage changes in PD markers at on-treatment biopsy after treatment with a) AZD9496 and b) fulvestrant, by individual patient. Blue line represents the line of best fit by linear regression and shaded areas represent 80% CIs.

CI: confidence interval; ER: estrogen receptor; PD: pharmacodynamic; PR: progesterone receptor R: correlation coefficient

Supplementary Figure 2

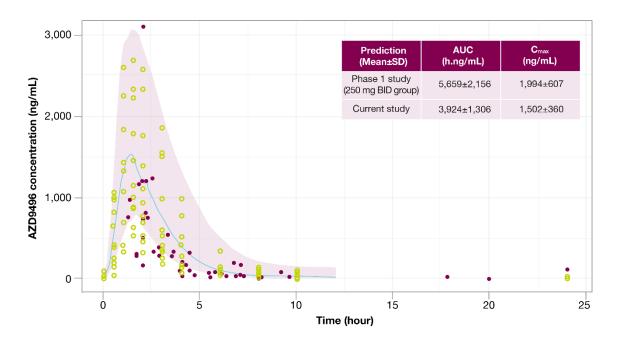
a)



Supplementary Figure 2: Pharmacodynamic marker percentage change by patient after receiving (a) AZD9496 or (b) fulvestrant. Each row represents the same patient. Right-hand 'Day' column represents the day of biopsy for each patient.

ER: estrogen receptor; PR: progesterone receptor

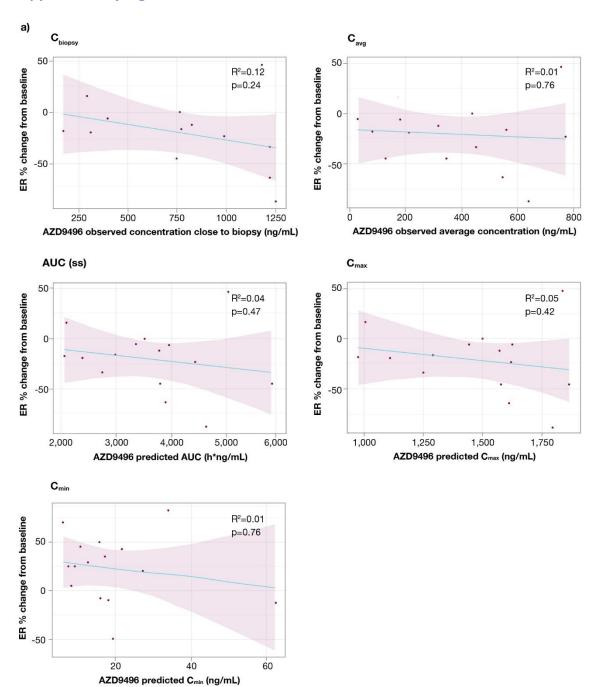
Supplementary Figure 3

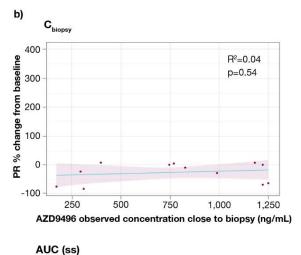


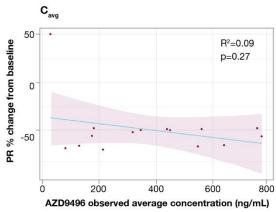
Supplementary Figure 3:- Plasma concentration of AZD9496, predicted *versus* observed. AZD9496 plasma concentration during current study (solid dots) compared with the predicted AZD9496 concentration based on the previous Phase 1 study¹ (hollow dots). Line represents the median prediction and the shaded area represents 95% CIs.

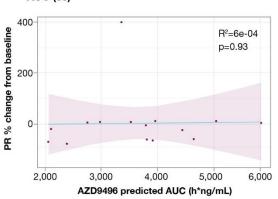
AUC: area under the concentration—time curve; CI: confidence interval; C_{max} : maximum plasma concentration; SD: standard deviation

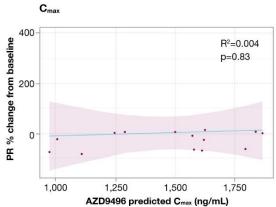
Supplementary Figure 4

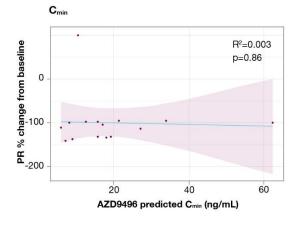


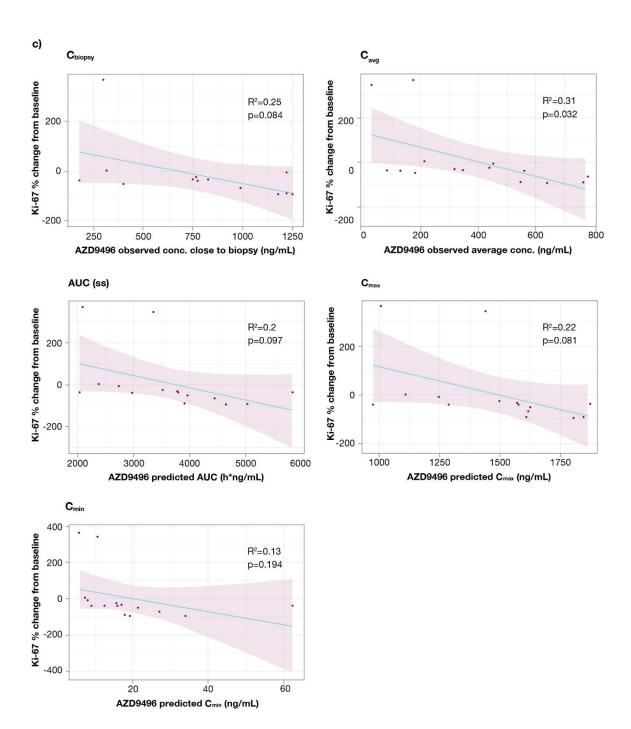




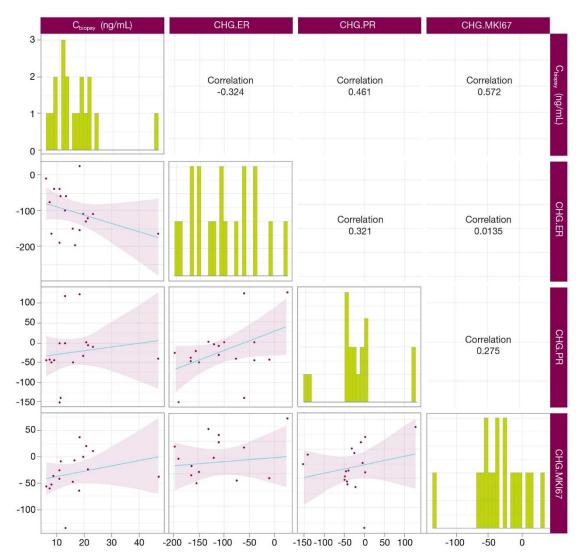








d)



Supplementary figure 4: PK/PD relationships at on-treatment biopsy between a) AZD9496 plasma concentration and ER percentage change from baseline, b) AZD9496 plasma concentration and PR percentage change from baseline, c) AZD9496 plasma concentration and Ki-67 percentage change from baseline, and d) observed fulvestrant concentration on day of biopsy and ER, PR, and Ki-67 levels. Blue line represents linear regression and shaded area represents 95% Cls. AUC: area under the concentration—time curve; C: concentration; C_{avg}: average of all plasma concentrations; CI: confidence interval; C_{max}: maximum plasma concentration; C_{min}: minimum plasma concentration; ER: estrogen receptor; PD: pharmacodynamics; PK: pharmacokinetics; PR: progesterone receptor; ss: steady state

Reference

1. Hamilton EP, Patel MR, Armstrong AC *et al*. A First-in-Human Study of the New Oral Selective Estrogen Receptor Degrader AZD9496 for ER⁺/HER2⁻ Advanced Breast Cancer. *Clin Cancer Res* 2018; **24**: 3510–8.