

# Using the chemicals in the human body to predict the optimal dose of orally administered anticancer drugs.

ACTRN12614001289606

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**Status** RECRUITING  
**Sponsor** Flinders University  
**Enrollment** 78 participants

## Plain Language Summary

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This study is looking for natural body chemicals (called endogenous metabolites) that can predict how quickly a healthy person breaks down certain anti-cancer drugs. An enzyme called CYP3A4 processes many medications in the liver, but people vary widely in how active this enzyme is. Identifying a reliable body marker for CYP3A4 activity could help doctors personalise cancer drug doses so each patient gets the right amount — not too much and not too little.

You may be eligible if:

- You are male
- You are between 21 and 35 years old
- You are in good health
- You are a non-smoker
- Your BMI is between 18 and 30

You may NOT be eligible if:

- You smoke cigarettes
- You have taken any prescription, over-the-counter, herbal, or recreational drugs in the last 7 days
- You have drunk grapefruit juice in the last 48 hours
- You have had a previous allergic reaction to any study drug

Talk to your doctor about whether this trial might be right for you.

## Key Eligibility Criteria

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### Inclusion (3)

- Healthy
- Non-smoker
- BMI in the range 18 to 30

### Exclusion (4)

- Use of prescription, over-the-counter, complimentary or recreational drugs during seven days prior and for the duration of the study. Paracetamol is permitted.
- Current cigarette smoker.
- Consumption of grapefruit juice in the period 48 hours prior and for the duration of the study.
- Prior allergy or adverse reaction to any of the drugs used in the study.

## Locations (1 total)

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Flinders Medical Centre - Bedford Park, SA, Australia

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<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12614001289606>

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