

## Clinical Trial Report

Section: Results

### Outcome Measurement:

- Recurrence-free Survival

### Results 1:

- Overall Number of Participants Analyzed: 100
- Unit of Measure: percentage of subjects 98 (92.2 to 99.5)

### Hypothesis 1 (Entailment)

Only 2 patients in the primary trial did not have Recurrence-free Survival

### Hypothesis 2 (Contradiction)

Adverse events were a common occurrence among participants in the primary clinical trial

### (1) Language Modelling Fine-tuning



LM LoRA



LLM

Generate

Entailment

OR

Contradiction

### (2) Triplet Fine-tuning



Triplet LoRA



LLM

Embed

Evidence

✗ Hypo 2

✓ Hypo 1

### (3) Merge LoRA Adapters

$$\theta_{\text{merged}} = \frac{1}{2}(\theta_{\text{LM}} + \theta_{\text{triplet}})$$

### (4) Inference



Merged LoRA



LLM

Generate

Entailment

OR

Contradiction