1. Medical prompts generation

Clinical & biological data

Clinical record

Follow-up 1

Follow-up 2

Follow-up 3

Follow-up 4

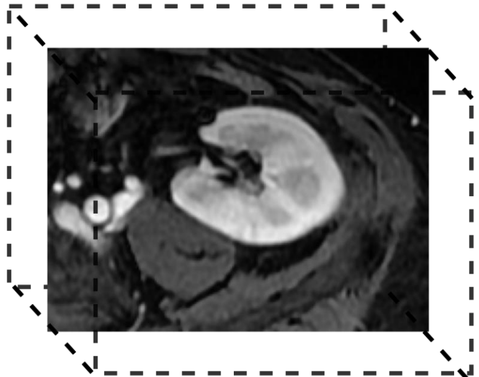
	Variable A	Variable B	…
Patient 1	value	value	
Patient 2			
…			

Manual sentences template

- The age of the donor is high.
- The glomerular filtration rate is very low.
- At first-year follow-up exam.
- The creatine level was unstable.

Large Language Model prompting → Weak text annotations

2. Representation learning setup



Renal transplant MRI

The age of the kidney donor is high. The patient's glomerular filtration rate was measured to be very low at the first-year follow-up appointment. The creatinine levels showed unstable variation.

x_i

E_I Image Encoder → f_i → f_t^T

$\mathcal{L}_{i \to t}$

x_t

E_T Text Encoder → f_t → f_i^T

$\mathcal{L}_{t \to i}$

$$\mathcal{L}_{contrastive} = (\mathcal{L}_{i \to t} + \mathcal{L}_{i \to t})/2$$