

## Light-weight LLM

## Survival Head

Early Fusion (A) / Late Fusion (B)

### Pathology Report

The patient was diagnosed with endometrial carcinoma 18 months ago. Underwent total hysterectomy with pelvic lymph node dissection, showing isolated nodal involvement. Adjuvant chemoradiation was completed with good tolerance. ...

Additional patient information:  
Age: 67  
...

3-year surv prob **80%**

Transformer Layer

Transformer Layer

pelvic lymph node dissec

(B)

(A)

$z_i^{\text{text}}$

$x_i^{\text{cov}}$

$g_i^{\text{text}}$

$g_i^{\text{cov}}$

$g_i^{\text{ge}}$

$x_i^{\text{ge}}$

$z_i^{\text{ge}}$

$x_i^{\text{ge}'}$

$g_i$

$z_i^{\text{text}}$

$x_i^{\text{cov}}$

$g_i^{\text{text}}$

$g_i^{\text{cov}}$

$g_i^{\text{ge}}$

$x_i^{\text{ge}}$

$z_i^{\text{ge}}$

$x_i^{\text{ge}'}$

$g_i$

$S^v(t|x_i^{\text{text}})$

80%

3 yr

Verbal. Pred.

$S(t|x_i)$

Hidden-State  
Prediction

$S^{\text{comb}}(t|x_i)$

can be pre-trained