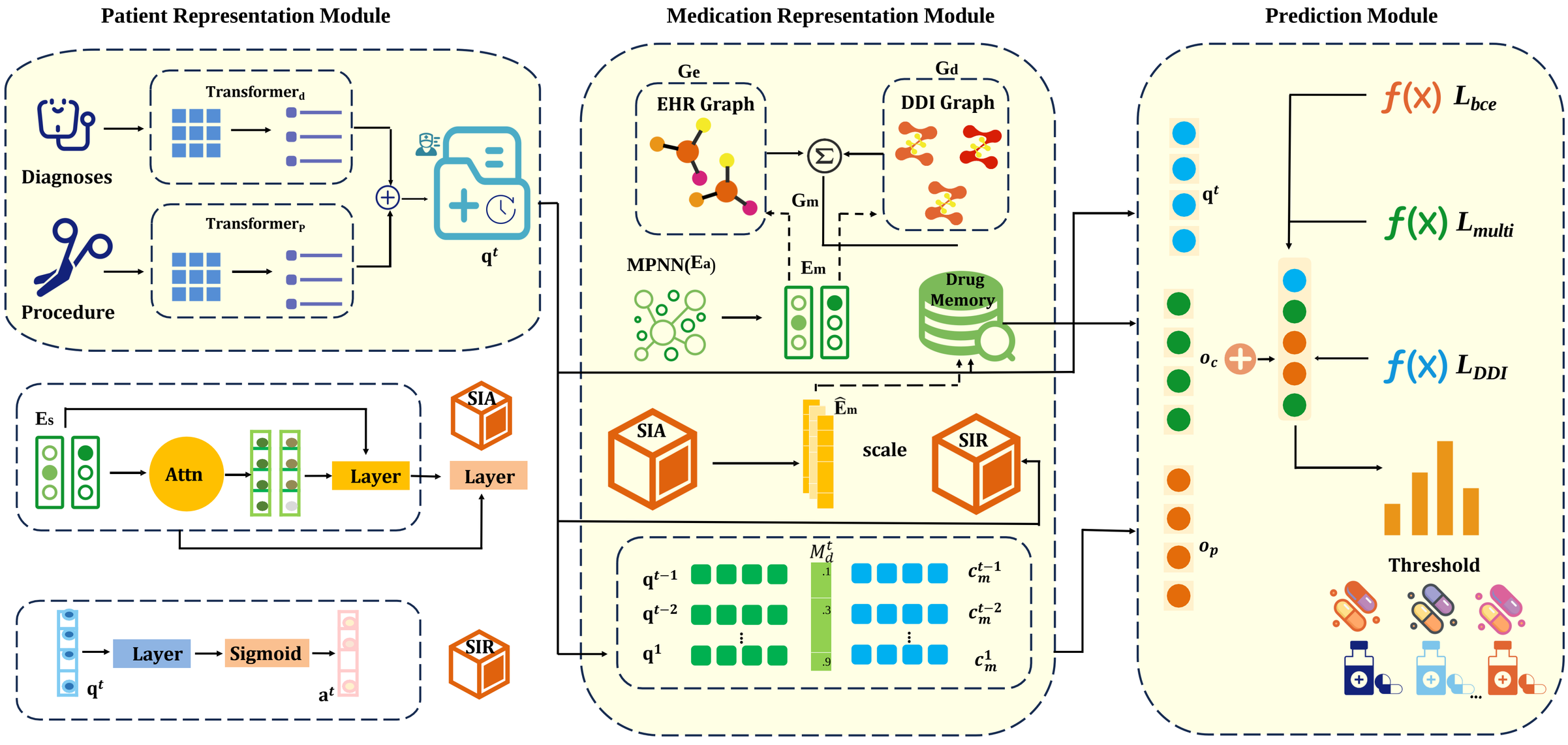
Patient Representation Module
Medication Representation Module
Prediction Module
Diagnoses
Transformer$_d$
Procedure
Transformer$_P$
q^t
Ge
EHR Graph
Gd
DDI Graph
Gm
MPNN(E_a)
E_m
Drug Memory
$\hat{E}_m$
SIA
scale
SIR
E_s
Attn
Layer
Layer
SIA
Layer
Sigmoid
q^t
a^t
SIR
q^{t-1}
q^{t-2}
q^1
M_d^t
.1
.3
.9
c_m^{t-1}
c_m^{t-2}
c_m^1
q^t
o_c
o_p
$f(x)$ L_{bce}
$f(x)$ L_{multi}
$f(x)$ L_{DDI}
Threshold
...