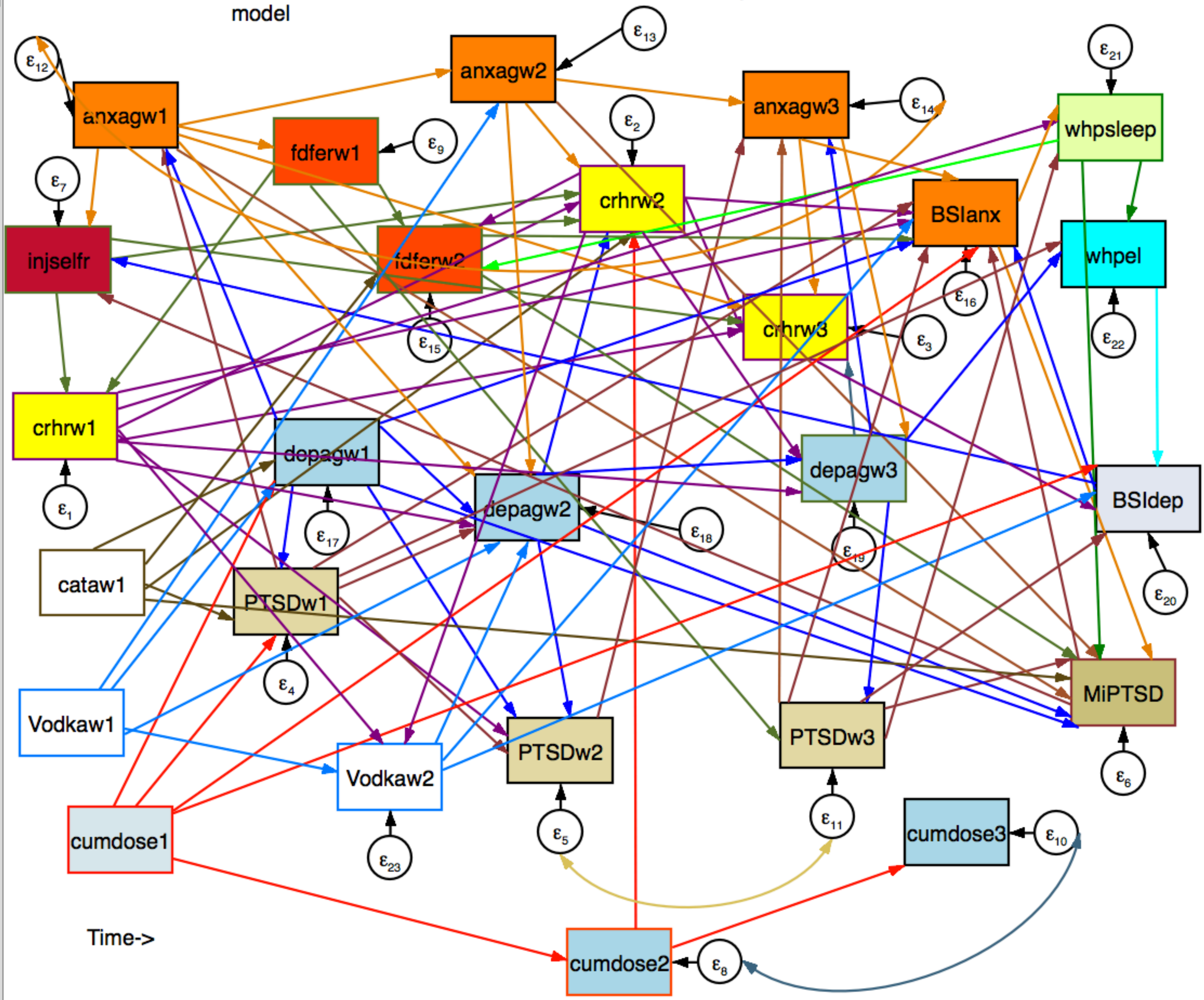Trimmed female Cumulative external dose -Chornobyl related health threat PTSD model