Param	Description	T1,T2 dep	Sp1=Sp2=Sp3=1
θ_1	$\mathrm{P}\left(D^+\right)$		
θ_2	$P\left(T_1^+ \mid D^+\right)$		
θ_3	$\mathrm{P}\left(T_1^- \mid D^-\right)$		=1 (→ P(T1+|D-)=0
θ_4	$P\left(T_2^+ \mid D^+ \cap T_1^+\right)$		
θ_5	$\mathrm{P}\left(T_2^+ \mid D^+ \cap T_1^-\right)$		
θ_6	$\mathrm{P}\left(T_2^- \mid D^- \cap T_1^-\right)$		=1 (→ P(T2+|D-)=0
θ_7	$\mathrm{P}\left(T_2^- \mid D^- \cap T_1^+\right)$		n.e.
θ_8	$P\left(T_3^+ \mid D^+ \cap T_1^+ \cap T_2^+\right)$		
θ_9	$\mathrm{P}\left(T_3^+ \mid D^+ \cap T_1^+ \cap T_2^-\right)$	= θ_8	
θ_{10}	$\mathrm{P}\left(T_3^+ \mid D^+ \cap T_1^- \cap T_2^+\right)$	= θ_8	
θ_{11}	$\mathrm{P}\left(T_3^+ \mid D^+ \cap T_1^- \cap T_2^-\right)$	= θ_8	
θ_{12}	$\mathrm{P}\left(T_3^- \mid D^- \cap T_1^- \cap T_2^-\right)$		=1 (P(T3+|D-)=0
θ_{13}	$\mathrm{P}\left(T_3^- \mid D^- \cap T_1^- \cap T_2^+\right)$	= θ_{12}	n.e.
θ_{14}	$\mathrm{P}\left(T_3^- \mid D^- \cap T_1^+ \cap T_2^-\right)$	= θ_{12}	n.e.
θ_{15}	$\mathrm{P}\left(T_3^- \mid D^- \cap T_1^+ \cap T_2^+\right)$	= θ_{12}	n.e.
θ_{16}	$P\left(T_4^+ \mid D^+ \cap T_1^+ \cap T_2^+ \cap T_3^+\right)$		
θ_{17}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^+ \cap T_2^+ \cap T_3^-\right)$	= θ_{16}	
θ_{18}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^+ \cap T_2^- \cap T_3^+\right)$	= θ_{16}	
θ_{19}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^+ \cap T_2^- \cap T_3^-\right)$	= θ_{16}	
θ_{20}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^- \cap T_2^+ \cap T_3^+\right)$	= θ_{16}	
θ_{21}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^- \cap T_2^+ \cap T_3^-\right)$	= θ_{16}	
θ_{22}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^- \cap T_2^- \cap T_3^+\right)$	= θ_{16}	
θ_{23}	$\mathrm{P}\left(T_4^+ \mid D^+ \cap T_1^- \cap T_2^- \cap T_3^-\right)$	= θ_{16}	
θ_{24}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^- \cap T_2^- \cap T_3^-\right)$		
θ_{25}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^- \cap T_2^- \cap T_3^+\right)$	= θ_{24}	n.e.
θ_{26}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^- \cap T_2^+ \cap T_3^-\right)$	= θ_{24}	n.e.
θ_{27}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^- \cap T_2^+ \cap T_3^+\right)$	= θ_{24}	n.e.
θ_{28}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^+ \cap T_2^- \cap T_3^-\right)$	= θ_{24}	n.e.
θ_{29}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^+ \cap T_2^- \cap T_3^+\right)$	= θ_{24}	n.e.
θ_{30}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^+ \cap T_2^+ \cap T_3^-\right)$	= θ_{24}	n.e.
θ_{31}	$\mathrm{P}\left(T_4^- \mid D^- \cap T_1^+ \cap T_2^+ \cap T_3^+\right)$	= θ_{24}	n.e.
	unrestricted: 31p	**11p**	**17p**

n.e.=not estimated

$$
\begin{aligned}
p &= \theta_1 \\
Se_1 &= \theta_2 \\
Sp_1 &= \theta_3 \\
Se_2 &= \theta_2\theta_4 + (1-\theta_2)\theta_5 \\
Sp_2 &= \theta_3\theta_6 + (1-\theta_3)\theta_7 \\
Se_3 &= \theta_2\{\theta_4\theta_8 + (1-\theta_4)\theta_9\} + (1-\theta_2)\{\theta_5\theta_{10} + (1-\theta_5)\theta_{11}\} \\
Sp_3 &= \theta_3\{\theta_6\theta_{12} + (1-\theta_6)\theta_{13}\} + (1-\theta_3)\{\theta_7\theta_{14} + (1-\theta_7)\theta_{15}\} \\
Se_4 &= \theta_2\{\theta_4\langle\theta_8\theta_{16} + (1-\theta_8)\theta_{17}\rangle + (1-\theta_4)\langle\theta_9\theta_{18} + (1-\theta_9)\theta_{19}\rangle\} \\
&\quad + (1-\theta_2)\{\theta_5\langle\theta_{10}\theta_{20} + (1-\theta_{10})\theta_{21}\rangle + (1-\theta_5)\langle\theta_{11}\theta_{22} + (1-\theta_{11})\theta_{23}\rangle\} \\
Sp_4 &= \theta_3\{\theta_6\langle\theta_{12}\theta_{24} + (1-\theta_{12})\theta_{25}\rangle + (1-\theta_6)\langle\theta_{13}\theta_{26} + (1-\theta_{13})\theta_{27}\rangle\} \\
&\quad + (1-\theta_3)\{\theta_7\langle\theta_{14}\theta_{28} + (1-\theta_{14})\theta_{29}\rangle + (1-\theta_7)\langle\theta_{15}\theta_{30} + (1-\theta_{15})\theta_{31}\rangle\}
\end{aligned}
$$