```
\begin{aligned} & \mathbf{for} \ t = 1 \ to \ T \ \mathbf{do} \\ & \theta^* \sim N(\theta^{(t-1)}, \tau) \\ & \alpha = \frac{\tilde{p}(\theta^*|D)}{\tilde{p}(\theta^{(t-1)}|D)} \\ & U \sim Ber(p = min(1, \alpha)) \\ & \mathbf{if} \ U == 1 \ \mathbf{then} \\ & \mid \ \theta^{(t)} \leftarrow \theta^* \\ & \mathbf{else} \\ & \mid \ \theta^{(t)} \leftarrow \theta^{(t-1)} \\ & \mathbf{end} \\ \end{aligned}
```