

$k^a$	$\varepsilon^b$	<b>BE%</b> <sup>c</sup>	<b>BIC score</b> <sup>d</sup>
2	NA	22.727	-5197.827
3	NA	32.432	-5120.670
4	NA	40.000	-5126.657

Table S 7: Percentage of bad edges and the BIC scores of the General BNs learned from the BC data in [13] with DiProg algorithm

<sup>a</sup> Maximum number of vertices in each hyperedge

<sup>b</sup> Value of  $\varepsilon$

<sup>c</sup> Percentage of bad edges.

<sup>d</sup> The BIC score of the learned General BNs by DiProg.