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Citation for final published version:

Kemp, Alison , Hollen, Linda, Emond, Alan M., Nuttall, Diane , Rea, David and Maguire, Sabine 2018. Raising suspicion of maltreatment from burns: Derivation and validation of the BuRN-Tool. Burns 44 (2) , pp. 335-343. 10.1016/j.burns.2017.08.018

Publishers page: <http://dx.doi.org/10.1016/j.burns.2017.08.018>

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**Supplementary Table 3.** Proportion of false positive cases (the BuRN-Tool gave score  $\geq 3$  but children were not referred to children's social care teams) across all the predictor variables in the validation data.

	< 5 years (N <sub>total</sub> = 113) N (%)	$\geq 5$ years (N <sub>total</sub> = 25) N (%)	OR (95% CI) <sup>†</sup>
Scalds	53 (47)	13 (52)	1.22 (0.52, 2.92)
Previously known to Social Care	15 (13)	16 (64)	11.61 (4.36, 30.98)
Full thickness depth	23 (20)	7 (28)	1.52 (0.57, 4.08)
Concerning explanation	13 (12)	4 (16)	1.47 (0.43, 4.94)
Supervision concern	59 (52)	2 (8)	0.08 (0.02, 0.35)
Bilateral scald pattern <sup>*</sup>	9 (17)	2 (14)	0.81 (0.16, 4.28)
Uncommon body site <sup>**</sup>	10 (19)	4 (31)	1.91 (0.49, 7.48)

\* Only relevant to scalds, n=53 for <5 year olds, n=14 for  $\geq 5$  year olds.

\*\* Only predictive for scalds, n=53 for <5 year olds, n=13 for  $\geq 5$  year olds.

<sup>†</sup> The method used to calculate a confidence interval for the difference between two proportions is the Newcombe-Wilson method without continuity correction.<sup>30</sup>