

Supplementary Table 3 Outcome-related experience-based co-design characteristics: improvement activities implemented categorized as per the Locock, et al.[17]

## Framework

References	Small scale change	Redesign within the team	Redesign between services	Redesign between organisations	Total improvement activities
Locock [15, 19, 35]					
ICU	20	15	3	-	38
Lung cancer	1	6	2	1	10
Write [16, 23, 36]	-	3	1	-	4
Gustavsson <sup>a</sup> [20, 37, 38]	?	?	?	?	?
Gustavsson <sup>b</sup> [20, 38]	?	?	?	?	?
Larkin [39-41]	2	7	1	-	10
Cooper [21]	4	2	1	-	7
Fucile [42]	-	5	-	-	5
Hackett [43]	-	-	1	-	1
Kenyon [44]	-	8	-	-	8
Weston [45]	NA	NA	NA	NA	NA
Piper [25]	?	?	?	?	?
Cheshire [22, 46]	?	?	?	?	?
Tsianakas [24]					
Breast cancer	5	9	2	-	16
Lung cancer	7	3	-	2	12
Springham [13]	?	?	?	?	?
van Deventer [17]	?	?	?	?	?
Cranwell [47-49]	-	1	1	1	3
Boyd [10]	7	-	-	-	7
Knowles [18]	?	?	?	?	?
Bate [7]	?	?	?	?	?
Bowen[50-52]	2	2	1	-	5

Abbreviations: NA, not applicable; ?, unclear.

<sup>a</sup>Neonatal study<sup>b</sup>Juvenile diabetes study