**Supplementary File 4 – Interventions and Differences**

**Table 1: Studies reporting 30-day or long-term mortality**

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| **Author** | **Year** | **PHBP recipients / total study size** | **Intervention** | **Differences between groups(PHBP-recipients vs. non-recipients)** |
| Dalton | 1993 (12) | 112 | PBRC:416ml [R:100-1250] | N/A |
| Berns | 1998 (59) | 94 | “average” 2u PRBC3 | N/A |
| Price | 1999 (49) | 84/246 | PRBC: 626ml ±262ml | Pre-hospital crystalloid: 3.0L vs. 0.8L Tracheal intubation: 47% vs. 34%In-hospital blood products: 1.4L vs. 1L |
| Barkana | 1999 (14) | 40 | PRBC: 1u (1-2u) [R:1-4u] | N/A |
| Sumida | 2000 (48) | 17/48 | mean 710.7ml "blood" | Flight time 33min vs. 12 min |
| Higgins | 2012 (55) | 45 | PBRC: 1.4u ± 0.23u | N/A |
| Badjie | 2013 (39) | 79/158 | 3u TP+3u PRBC vs.2u PRBC+2u TP+2u PBRC | None reported |
| Glassberg | 2013 (67) | 10 | 1.5u LP (1-2u)(PRBC not reported) | N/A |
| Mena-Mundoz | 2013 (74) | 1441 | Up to 2u PBRC | N/A |
| Weaver | 2013 (23) | 50 | mean 2.8u PBRC | N/A |
| Bodnar | 2014 (50) | 71 | 1.8u PBRC ±0.74u | N/A |
| O’Reilly | 2014 (41) | 310 | PBRC: 2u (1-2) [R:0-4] Plasma: 2u (1-2) [R:0-4] | N/A |
| O’Reilly | 2014 (40) | 97/194 | PBRC: 1u (1-2) [R:0-4]Plasma: 2u (1-2) [R: 0-4] | Advanced Airway: 20% vs. 9%Tranexamic acid receipt: 23% vs. 0%Pre-hospital time: 68min vs. 110minIn-hospital transfusion: 2u PBRC + 2u FFP vs. none |
| Powell-Dunford | 2014 (54) | 61 | PBRC: 1u (1-1) [R:1-2] Plasma: 0u (0-0) [R :0-1] | N/A |
| Smith | 2014 (46) | 272/1047 | PBRC: 2u (1-2) [R: 0-4]Plasma: 2u (1-2) [R: 0-4] | Explosive injuries: 92% vs. 55%GSW: 7% vs 35%median NISS: 41 vs 25.Tranexamic acid receipt: 21% v. 0.5%.In-hospital tx: 15 u PRBC+15 u plasma vs. 4u + 4u |
| Brown | 2015(35-i) | 50/1365 | PRBC: 1.3u (1–2) | Secondary transfer: 48% vs. 4%Pre-hospital crystalloid: 2.6L vs. 1.0LIn-hospital tx: 15u PRBC + 3u plasma vs. 7u + 3u |
| Brown | 2015(35-ii) | 35/113 | PRBC: 1.2u (1–2) | In-hospital tx: 14u PRBC vs. 8u PRBC |
| Brown | 2015(36-i) | 240/720 | PRBC: 300ml (200-500ml) | Emergency surgery: 48% vs. 28% |
| Brown | 2015(36-ii) | 71/213 | PRBC: 300ml (200-500ml) | None |
| Sunde | 2015(53) | 16 | LP: 200ml (R: 100-200ml) | N/A |

**Supplementary Table 2: Studies reporting pre-hospital mortality**

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| --- | --- | --- | --- | --- |
| **Author** | **Year** | **PHBP recipients / total study size** | **Intervention1** | **Differences between groups****(PHBP-recipients vs. non-recipients)** |
| Prause | 1999 (52) | 26 | not specified | N/A |
| Chew | 2013 (51) | 59 | PBRC: 2u (2-4u) | N/A |
| Sherren | 2013 (25) | 147 | PBRC: 3u (1-6u) | N/A |
| Weaver | 2013 (23) | 50 | PRBC: mean 2.8u | N/A |
| Bodnar | 2014 (50) | 71 | PBRC: mean 1.8u (±0.7u) | N/A |
| Sunde | 2015 (53) | 16 | LP: 200ml (R: 100-200ml) | N/A |

**Supplementary Table 3: Studies reporting 24h mortality**

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| --- | --- | --- | --- | --- |
| **Author** | **Year** | **PHBP recipients / total study size** | **Intervention1** | **Differences between groups****(PHBP-recipients vs. non-recipients)** |
| Kim | 2012 (37) | 59 | PRBC : 2.5u vs. 1uPlasma: 2.1u vs. 0u | Warfarin: 22% vs. 2% Prehospital crystalloid:2.4L vs. 1.6LPre-transfusion INR: 2.6 vs. 1.5In-hospital PRBC: 12.7u vs. 11.4uIn-hospital plasma: 11.5u vs. 5.5uIn-hospital crystalloid: 6.3L vs. 16.4L |
| Brown | 2015 (35-i) | As 30-day mortality table |
| Brown | 2015 (35-ii) |
| Brown | 2015 (36-i) |