

## SDC 1 – Appendix 1 and 2

### Appendix 1 – Clinical outcomes

| Immunosuppression reduction alone                                              |                            |                   |                                       |                              |                                          |                              |                                    |                              |                                       |                              |
|--------------------------------------------------------------------------------|----------------------------|-------------------|---------------------------------------|------------------------------|------------------------------------------|------------------------------|------------------------------------|------------------------------|---------------------------------------|------------------------------|
| Included studies                                                               | Sample size (no. patients) | Follow-up (years) | Response, no rejection (no. patients) | Time adjusted (no. patients) | No response, no rejection (no. patients) | Time adjusted (no. patients) | Response, rejection (no. patients) | Time adjusted (no. patients) | No response, rejection (no. patients) | Time adjusted (no. patients) |
| Howell 1999 (20)                                                               | 6                          | 1.00              | 4                                     | 4                            | 2                                        | 2                            | 0                                  | 0                            | 0                                     | 0                            |
| Rhandawa 1999 (21)                                                             | 8                          | 1.00              | 8                                     | 8                            | 0                                        | 0                            | 0                                  | 0                            | 0                                     | 0                            |
| Barri 2001 (22)                                                                | 8                          | 1.00              | 6                                     | 6                            | 2                                        | 2                            | 0                                  | 0                            | 0                                     | 0                            |
| Li 2002 (23)                                                                   | 6                          | 1.13              | 3                                     | 3.33                         | 0                                        | 0                            | 1                                  | 0.89                         | 2                                     | 1.78                         |
| Ramos 2002 (24)                                                                | 88                         | 1.40              | 46                                    | 58                           | 17                                       | 12.14                        | 15                                 | 10.71                        | 10                                    | 7.14                         |
| Celik 2003 (25)                                                                | 19                         | 1.82              | 15                                    | 16.80                        | 4                                        | 2.20                         | 0                                  | 0                            | 0                                     | 0                            |
| Tong 2004 (26)                                                                 | 2                          | 1.68              | 2                                     | 2                            | 0                                        | 0                            | 0                                  | 0                            | 0                                     | 0                            |
| Wali 2004 (27)                                                                 | 3                          | 1.5               | 3                                     | 3                            | 0                                        | 0                            | 0                                  | 0                            | 0                                     | 0                            |
| Kim 2005 (28)                                                                  | 9                          | 1.42              | 5                                     | 6.18                         | 0                                        | 0                            | 2                                  | 1.41                         | 2                                     | 1.41                         |
| Nampoory 2005 (29)                                                             | 10                         | 1.52              | 9                                     | 9.34                         | 0                                        | 0                            | 1                                  | 0.66                         | 0                                     | 0                            |
| Gupta 2006 (30)                                                                | 1                          | 1.25              | 0                                     | 0.2                          | 1                                        | 0.8                          | 0                                  | 0                            | 0                                     | 0                            |
| Giraldi 2007 (31)                                                              | 4                          | 2                 | 4                                     | 4                            | 0                                        | 0                            | 0                                  | 0                            | 0                                     | 0                            |
| Kuypers 2009 (18)                                                              | 15                         | 2.41              | 4                                     | 10.43                        | 11                                       | 4.57                         | 0                                  | 0                            | 0                                     | 0                            |
| Ison 2009 (32)                                                                 | 2                          | 3                 | 0                                     | 1.33                         | 2                                        | 0.66                         | 0                                  | 0                            | 0                                     | 0                            |
| Takayama 2009 (33)                                                             | 3                          | 1.00              | 2                                     | 2                            | 0                                        | 0                            | 1                                  | 1                            | 0                                     | 0                            |
| Teschner 2009 (34)                                                             | 13                         | 1.27              | 12                                    | 12.21                        | 0                                        | 0                            | 1                                  | 0.79                         | 0                                     | 0                            |
| Wu 2009 (19)                                                                   | 6                          | 3.26              | 3                                     | 5.08                         | 3                                        | 0.92                         | 0                                  | 0                            | 0                                     | 0                            |
| Akpinar 2010 (35)                                                              | 2                          | 3.58              | 0                                     | 1.44                         | 0                                        | 0                            | 2                                  | 0.56                         | 0                                     | 0                            |
| Huang 2010 (36)                                                                | 5                          | 1.00              | 5                                     | 5                            | 0                                        | 0                            | 0                                  | 0                            | 0                                     | 0                            |
| <b>Total</b>                                                                   | 210                        |                   |                                       | 158.34                       |                                          | 25.29                        |                                    | 16.02                        |                                       | 10.33                        |
| <b>Annual probability</b>                                                      |                            |                   |                                       | 0.75                         |                                          | 0.12                         |                                    | 0.08                         |                                       | 0.05                         |
| <b>Beta distribution (<math>\alpha</math>, <math>\beta</math>)<sup>1</sup></b> |                            |                   | 158.35, 51.65                         |                              | 25.30, 184.7                             |                              | 16.02, 193.98                      |                              | 10.332, 199.67                        |                              |

  

| Immunosuppression reduction plus cidofovir                                     |                            |                   |                                       |                              |                                          |                              |                                    |                              |                                       |                              |
|--------------------------------------------------------------------------------|----------------------------|-------------------|---------------------------------------|------------------------------|------------------------------------------|------------------------------|------------------------------------|------------------------------|---------------------------------------|------------------------------|
| Included studies                                                               | Sample size (no. patients) | Follow-up (years) | Response, no rejection (no. patients) | Time adjusted (no. patients) | No response, no rejection (no. patients) | Time adjusted (no. patients) | Response, rejection (no. patients) | Time adjusted (no. patients) | No response, rejection (no. patients) | Time adjusted (no. patients) |
| Ramos 2002 (24)                                                                | 4                          | 1.4               | 2                                     | 2.57                         | 2                                        | 1.43                         | 0                                  | 0                            | 0                                     | 0                            |
| Scantlebury 2002 (37)                                                          | 15                         | 1.25              | 11                                    | 11.8                         | 0                                        | 0                            | 3                                  | 2.4                          | 1                                     | 0.8                          |
| Tong 2004 (26)                                                                 | 5                          | 1.20              | 5                                     | 5                            | 0                                        | 0                            | 0                                  | 0                            | 0                                     | 0                            |
| Gupta 2006 (30)                                                                | 6                          | 1.25              | 4                                     | 4.4                          | 2                                        | 1.6                          | 0                                  | 0                            | 0                                     | 0                            |
| Kuypers 2009 (18)                                                              | 26                         | 2.63              | 22                                    | 24.48                        | 4                                        | 1.52                         | 0                                  | 0                            | 0                                     | 0                            |
| Ison 2009 (32)                                                                 | 7                          | 3.00              | 1                                     | 5                            | 4                                        | 1.33                         | 0                                  | 0                            | 2                                     | 0.67                         |
| Wu 2009 (19)                                                                   | 8                          | 2.70              | 5                                     | 6.89                         | 2                                        | 0.74                         | 1                                  | 0.37                         | 0                                     | 0                            |
| <b>Total</b>                                                                   | 71                         |                   |                                       | 60.14                        |                                          | 6.62                         |                                    | 2.77                         |                                       | 1.47                         |
| <b>Annual probability</b>                                                      |                            |                   |                                       | 0.85                         |                                          | 0.09                         |                                    | 0.04                         |                                       | 0.02                         |
| <b>Beta distribution (<math>\alpha</math>, <math>\beta</math>)<sup>1</sup></b> |                            |                   | 60.136, 10.864                        |                              | 6.627, 64.373                            |                              | 2.771, 68.229                      |                              | 1.467, 69.533                         |                              |

<sup>1</sup> Beta distribution  $\alpha$  = numerator,  $\beta$  = denominator - numerator

## **SDC 1 – Appendix 1 and 2**

### **Appendix 2 – Search terms**

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- 1 Exp Polyomavirus
  - 2 Exp Polyomavirus infections
  - 3 Exp BK virus
  - 4 Polyoma vir\$.mp.
  - 5 Polyomavir\$.mp.
  - 6 BK vir\$.mp.
  - 7 1 or 2 or 3 or 4 or 5 or 6
  - 8 Exp Kidney transplantation
  - 9 Kidney transplantation.mp.
  - 10 Renal transplantation.mp.
  - 11 Kidney transplant.mp.
  - 12 Renal transplant.mp.
  - 13 Kidney allograft.mp.
  - 14 Renal allograft.mp.
  - 15 8 or 9 or 10 or 11 or 12 or 13 or 14
  - 16 7 and 15
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