Key model inputs are summarised in Table 1. Health utility values used by the model were based on published data[[22](#_ENREF_22)]. Therefore, a health utility score of 0.78 was applied to participants without diabetes complications. Utility decrements applied to participants with a history of complications are summarised in . Cost of treating participants with and without diabetes related complications and of delivering the intervention in each simulation year are summarised in -, respectively.

: Key input data required by the UKPDS Outcomes Model

|  |  |
| --- | --- |
| **Demographic characteristics:**  | Ethnicity (Afro-Caribbean, Caucasian, Asian/Indian)Gender (male/female)Age at diagnosis of T2DM (years)Diabetes duration (years)Weight (kg)Height (cm) |
| **Risk factor values at diagnosis of T2DM**  | AF (yes/no)PVD (yes/no) Smoking (current/never/ex-smoker)Cholesterol (mmol/l)HDL (mmol/l)Systolic BP (mmHg)HbA1C (%) |
| **Current risk factor values**  | Smoking (current/never/ex-smoker)Cholesterol (mmol/l)HDL (mmol/l)Systolic BP (mmHg)HbA1C (%) |
| **Years since pre-existing event**  | CHD - excluding MI (years)CHF (years)Amputation (years) Blindness in one or both eyes (years) Renal failure (years) Stroke (years) MI (years)  |

Table 2: Utility decrements applied to participants during the simulation period

|  |  |
| --- | --- |
| **Complication** | **Utility decrement** |
| **CHD** | -0.09 (-0.126- -0.054) |
| **MI**  | -0.055 (-0.067- -0.042) |
| **CHF**  | -0.108 (-0.169- -0.048) |
| **Stroke**  | -0.164 (-0.222- -0.105) |
| **Amputation**  | -0.28 (-0.389- -0.170) |
| **Blindness** | -0.074 (-0.252- -0.124) |
| **Renal failure**  | -0.263 (-0.263- -0.263) |

**Table 3: Annual cost of diabetes-related complications during the year the complication developed and in subsequent years**

|  |  |  |
| --- | --- | --- |
|  | **In year complication develops** | **In subsequent years** |
|  | **Fatal** | **Non-fatal** | **Cost** |
| **CHD**  | - |  20249 (19362-21128) | 3429 (3007-3862) |
| **MI**  | 15443(12065-18972 ) | 18773 (17599-20045) | 2706 (2454-2979) |
| **CHF**  |  25003 (22484-27384) |  25003 (22484-27384) | 10462 (8298-13302) |
| **Stroke**  | 22807(14633-31583)  | 22559 (20759-24445) | 5943 (5194-6810) |
| **Amputation**  |  32870 (30059-36082) | 32870 (30059-36082) | 6490 (5092-8087)  |
| **Blindness**  | - | 14297 (10262-20360) | 4893 (2557-7506) |
| **Renal failure**  |  46144 (37012-55065) | 46144 (37012-55065) | 49044 (36125-60961) |

 **\*All costs reported in $AU 2012/13.**

Table : Annual diabetes-related costs of participants without complications in the intervention versus control groups

|  |  |  |
| --- | --- | --- |
|  | **Intervention** **(n=25)** | **Control****(n=22)** |
| **Diabetes-related costs** | 6091(2183-9998) | 3107(2530 – 3683) |

**\*All costs reported in $AU 2012/13.**

Table : Annual discounted cost of the telephone coaching intervention in the first through to the 10th simulation year

|  |  |
| --- | --- |
| **Year** | **Discounted cost**  |
| Year one | 1286 |
| Year two | 1225 |
| Year three | 1166 |
| Year four | 1111 |
| Year five | 1058 |
| Year six | 1008 |
| Year seven | 960 |
| Year eight | 914 |
| Year nine | 870 |
| Year 10 | 829 |

**\*All costs reported in $AU 2012/13.**