

Additional file:

Formula for calculation of indirect costs caused by patients:

$$\text{Loss of productivity (2013)} = LP_{\text{disability}} + LP_{\text{invalidity}}$$

Loss of productivity due to disability: $LP_{\text{disability}} = (Abs_{LT} + Abs_{ST} + Rehab) \times S_d + S_{lost} \times t$

Abs_{LT} : long-term absenteeism due to BMD/DMD in one year (in days)

Abs_{ST} : short-term absenteeism - absent hours due to BMD/DMD in one year and conversion into days

Rehab: days in rehabilitation in one year

S_d : actual gross salary per day

S_{lost} : loss of gross salary per month caused by changes in working hours

t: number of months with reduced salary due to changes in working hours in 2013

Loss of productivity due to invalidity: $LP_{\text{inval}} = D_{lost} \times S_{di}$

D_{lost} : lost working days due to DMD/BMD in one year

S_{di} : previous gross salary per day, inflation adjusted

Patients who never worked: average gross salary per month for men in Germany in 2013 [1] extrapolated to one year

Formula for calculation of indirect costs caused by parents:

$$\text{Loss of productivity (2013)} = LP_{\text{absenteeism}} + LP_{\text{changes}}$$

Loss of productivity due to absenteeism: $LP_{\text{absenteeism}} = (Abs_{LT} + Abs_{ST} + Rehab) \times S_d$

Abs_{LT} : long-term absenteeism due to child's BMD/DMD in one year (in days)

Abs_{ST} : short-term absenteeism - absent hours due to child's BMD/DMD in one year and conversion into days

Rehab: days in rehabilitation in one year

S_d : actual gross salary per day

Loss of productivity due to changes in work situation: $LP_{\text{change}} = S_{lost} \times t + D_{lost} \times S_{di}$

S_{lost} : loss of gross salary per month caused by changes in working hours due to child's disease

t: number of months with reduced salary due to changes in working hours in 2013

D_{lost} : lost working days due to child's DMD/BMD in 2013

S_{di} : previous gross salary per day, inflation adjusted

References:

1. **Statistisches Bundesamt. Verdienste und Arbeitskosten. Arbeitnehmerverdienste.** vol. Fachserie 16, Reihe 2.3. Wiesbaden; 2014.