Appendix: Cost calculations

The calculations are represented below:



Where *d* indexes the study arms such that , *Nd* is the sample size for each arm *d*,  is the total monthly (i.e., 28-day) cost for individual *i* in arm *d*, *Mj* is the total number of contributing cost components for type of care *j* (i.e., hygiene, bathing, feeding), *UCjm* represents the unit cost of care for cost component *m* (i.e., glove, gown, time to don and doff) associated with type of care *j*, *Qijm* is the total weekly number of interactions of type of care *j* received by individual *i* for cost component *m*, *t* indexes daily interactions related to type of care *j* with individual *i* for a maximum of 7 days representing the week, *qijt* is an indicator for the receipt of type of care *j* by individual *i* on day *t*, *dfij* is the daily frequency of type of care *j* for individual *i*, *CVm* is the conversion factor that is needed to translate the product in parentheses into the appropriate units for the cost calculation. For example, in the case of calculating the dollar value of time spent during interactions related to ostomy care, the total number of interactions per week involving ostomy care is multiplied by the daily frequency of interactions for ostomy care multiplied by the number of minutes spent by the HCP to don and doff during a given interaction for ostomy care and then multiplied by the wage per minute. The conversion factor for time to don and doff is the number of minutes spent by the HCP to don and doff during each interaction for ostomy care.