#### GLOSSARY OF TERMS - SURVIVAL MODELS

#### Prepared by David Forfar, MA, FFA.

## Deterministic Approach (where you know exactly how many persons will die at each age)

#### Life table functions

- I<sub>s</sub>:- the number of persons alive aged x in a life table. For example, we might have ln=100, ln=90, ln=82, ln=75, etc. which would mean that out of 100 births, 90 persons are alive at exact age 1, 82 alive at exact age 2, 75 alive at exact age 3 etc.
- d<sub>x</sub>:- the number of persons who die aged x last birthday. In the above example, d<sub>0</sub>=10, d<sub>1</sub>=8, d<sub>2</sub>=7 etc.
- $p_x$ :- the probability that a person aged exactly x survives one year to exactly age (x+1) i.e. the probability of surviving one year. Example,  $p_0=90/100=.9$ ,  $p_1=82/90=.9111$ ,  $p_2=75/82=.9146$ , etc. Hence  $p_x=\frac{1}{3}+\frac{1}{3}$ .
- q<sub>x</sub>:-the probability that a person aged exactly x dies before exact age (x+1), q<sub>x</sub> = (1-p<sub>x</sub>) i.e. the probability of dying in the next year. Example, q<sub>0</sub>=10/100=.1, q<sub>1</sub>= 8/90=.0889, q<sub>3</sub>=7/82=.0854. Hence q<sub>x</sub>= d<sub>y</sub>/l<sub>x</sub>.
- (p<sub>x</sub>:-the probability that a person aged exactly x lives for another t years to exact age (x+t). Hence p<sub>x</sub> = l<sub>0x+0</sub>/l<sub>x</sub>.
- $_{t}q_{x}$ :- the probability that a person aged exactly x dies before exact age (x+t). Hence  $_{0}q_{x}=1$ -  $_{0}p_{x}=(l_{x}-l_{(x+t)})/l_{x}$ .
- $\mu_x$ , force of mortality:  $-\mu_x = -\frac{1}{I_x} \frac{dI_x}{dx}$ . Hence  $\mu_x$  represents the instantaneous rate at which people are
  - dying. If x is fixed and t is the variable then  $\mu_{\lambda = t} = -\frac{1}{l_{x=t}} \frac{dl_{x=t}}{dt}$ . By integration of this equation it can
  - be seen that  $l_{x+1} = l_x e^{-\int_{s=0}^{s=t} \mu_{x+s} ds}$  and therefore that  $l_x \rho_x = e^{-\int_{s=0}^{s=t} \mu_{x+s} ds}$

Assumption of uniform of distribution of deaths between exact ages x and (x+1):- The  $d_x$  deaths between ages x and (x+1) are assumed uniformly spread across the year of age. Hence  $l_{(x+1)} = l_x - t_x d_x$  for  $0 \le t \le 1$ .

Assumption of constant force of mortality between exact ages x and (x+1): The force of mortality between ages x and (x+1) is assumed constant (  $\mu$ , say). Hence,  $l_{(x+0)} = l_{x}e^{-\mu t}$  for  $0 \le t \le 1$ .

# **Terms Of Survival**

**Jicheng Xie** 

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