

**Table 1**  
*Pretreatment Covariates.*

| Covariate                                  | Abbreviation | Number of Levels<br>(if categorical) |
|--|--------------|--------------------------------------|
| Age  | Age          |                                      |
| Weight Index                               | WtI          |                                      |
| Performance rating                         | PF           | 4                                    |
| Cardiovascular disease history             | HX           | 2                                    |
| Systolic Blood pressure                    | SBP          |                                      |
| Diastolic blood pressure                   | DBP          |                                      |
| Electrocardiogram code                     | EKG          | 7                                    |
| Serum haemoglobin                          | HG           |                                      |
| Size of primary tumour                     | SZ           |                                      |
| Index of tumour stage and histologic grade | SG           |                                      |
| Serum prostatic acid phosphatase           | AP           |                                      |
| Bone metastases                            | BM           | 2                                    |

**Table 2**  
*Models and Fits.*

| Model  | Variable Groups           | #Parameters | Log-likelihood<br>+11386.265 | $\Delta \log L /$<br>$\Delta \# P$ |
|--------|---------------------------|-------------|------------------------------|------------------------------------|
| [LInd] | -                         | 55          | 0.000                        | 58.77                              |
| [BPr]  | {SBP,DBP}                 | 57          | 117.542                      | 5.31                               |
| [3,2]  | {BM,WtI,HG},{SBP,DBP}     | 63          | 149.419                      | 1.65                               |
| [5]    | {BM,WtI,HG,SBP,DBP}       | 75          | 169.163                      | 1.31                               |
| [9]    | Complement of {PF,HX,EKG} | 127         | 237.092                      |                                    |

**Table 3a***Clusters and outcomes for the untreated patients.*

|               |         | Outcome |                   |                 |                |
|---------------|---------|---------|-------------------|-----------------|----------------|
| Patient Group |         | Alive   | Prostate<br>Death | Cardio<br>Death | Other<br>Death |
| Cluster 1     | Stage 3 | 39      | 18                | 37              | 33             |
|               | Stage 4 | 3       | 4                 | 3               | 3              |
| Cluster 2     | Stage 3 | 1       | 4                 | 2               | 3              |
|               | Stage 4 | 14      | 49                | 18              | 6              |

**Table 3b***Clusters and outcomes for the treated patients.*

|               |         | Outcome |                   |                 |                |
|---------------|---------|---------|-------------------|-----------------|----------------|
| Patient Group |         | Alive   | Prostate<br>Death | Cardio<br>Death | Other<br>Death |
| Cluster 1     | Stage 3 | 50      | 3                 | 52              | 20             |
|               | Stage 4 | 4       | 0                 | 1               | 3              |
| Cluster 2     | Stage 3 | 1       | 6                 | 3               | 1              |
|               | Stage 4 | 25      | 37                | 22              | 10             |