

Table 1
Pretreatment Covariates.

| Covariate | Abbreviation | Number of Levels (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 +11386.265 | $\Delta \log L /$ $\Delta \# P$ |
|--------|---------------------------|-------------|------------------------------|------------------------------------|
| [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 Death | Cardio Death | Other 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 Death | Cardio Death | Other 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 |