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Av herrar **Karlsson** i Vadstena och **Blomquist**, om ökning av personalen vid statens sinnessjukhus.

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### APPENDIX

where  $\mathbf{y}_i = (y_{i1}, \dots, y_{in})'$  is the vector of observed values of the  $n$  variables on the  $i$ th individual,  $\mathbf{y}_i \sim N(\boldsymbol{\mu}_i, \boldsymbol{\Sigma}_i)$ ,  $\boldsymbol{\mu}_i = (\mu_{i1}, \dots, \mu_{in})'$  and  $\boldsymbol{\Sigma}_i = (\sigma_{ij}^2, \rho_{ij})$ .

The joint density function of the observed values is

$$f(\mathbf{y}_1, \dots, \mathbf{y}_n) = \prod_{i=1}^n f(\mathbf{y}_i)$$

$$= \prod_{i=1}^n \frac{1}{(2\pi)^{n/2} |\boldsymbol{\Sigma}_i|^{1/2}} \exp\left\{-\frac{1}{2}(\mathbf{y}_i - \boldsymbol{\mu}_i)' \boldsymbol{\Sigma}_i^{-1} (\mathbf{y}_i - \boldsymbol{\mu}_i)\right\}$$

and