ERRATA

In the paper by I. Mirsky, "Pulse Velocities in Cylindrical, Tapered and Curved Anisotropic Elastic Arteries" in Volume 35, 495-511, 1973, the following corrections should be made:

Expressions (45) for the constants a_1 , a_2 and a_3 do not reduce to those for the special case of an isotropic material and should be replaced by

$$\begin{aligned} a_1 &= (c_{11}c_{22} - c_{12}^2)/c_{11} = [(c_{22} - c_{12})c_{11} + (c_{11} - c_{12})c_{12}]/c_{11} \\ &= (c_{22} - c_{12}) + (c_{11} - c_{12}) = 9.4 \times 10^6 \text{ dynes/cm}^2 \\ a_2 &= (c_{23}c_{11} - c_{12}c_{13})/c_{11} = [(c_{23} - c_{12})c_{11} + (c_{11} - c_{13})c_{12}]/c_{11} \\ &= (c_{23} - c_{12}) + (c_{11} - c_{13}) = 5.2 \times 10^6 \text{ dynes/cm}^2 \\ a_3 &= (c_{33}c_{11} - c_{13}^2)/c_{11} = [(c_{33} - c_{13})c_{11} + (c_{11} - c_{13})c_{13}]/c_{11} \\ &= (c_{33} - c_{13}) + (c_{11} - c_{13}) = 10.1 \times 10^6 \text{ dynes/cm}^2 \end{aligned}$$

The resulting pulse velocity in a cylindrical tube given by formula (14) is 675 cm/sec which is not in agreement with the value 525 cm/sec reported by Patel *et al.* The discrepancy may well be due to the data employed. In particular, the Poisson ratios ν_{ij} yield approximately equal values for all the $c_{ij} \sim 0.69\eta E_1$, a result which is not consistent with the assumption of an anisotropic material. This difficulty arises from the fact that theoretically, the c_{ij} are infinite and caution must be taken in performing the limiting analyses as indicated by the above expressions.

Table 1 must also be revised and is given below:

$\theta \backslash d/R$	1.5	2.0	3.0	4.0	5.0	∞
0	530	511	497	492	489	485
$\pi/2$	616	591	562	545	534	485

Although significant variations occur in the velocities for small and large values of d/R and for variations in θ , the cylinder formula (14) is still justified for the aortic arch.

Finally, the formula for c_{12} in Appendix 2 should read

$$c_{12} = E_1(\nu_{z1} + \nu_{z2}\nu_{21}).$$