INLINE SUPPLEMENTARY TABLE S1

Table S1. Numerical values of the eleven parameters that have been modified to investigate their effects on the spectra predicted by the hemodynamic model. Here, k is the asymptotic amplitude ratio of the flow velocity to blood volume oscillations, i.e. $k = \left|\mathbf{f}^{(c)}\right|/|\mathbf{v}|\Big|_{\omega \gg \omega_c^{(\mathrm{AutoReg})}}$ [see Eq. (41)], and is related to the inverse of the modified Grubb's exponent. The first row reports the reference set of Table II. For each of the eleven parameters, a low value (set "a") and a high value (set "b") are considered. The spectra of phase difference and amplitude ratio shown in Figs. S1-S6 correspond to the twenty-two sets of parameter values reported in this Table. The parameter values that are modified in each set are highlighted in bold face.

Table S1.

	$\alpha_{\dot{0}}$ (s^{-1})	$\phi^{(a)}$	$\phi^{(c)}$	$\phi^{(v)}$	$t^{(c)}$ (s)	$t^{(v)}$ (s)	$\frac{\omega_c^{(\mathrm{AutoReg})}}{2\pi}$ (Hz)	k	$\lvert\mathbf{v}^{(a)}\rvert$	$\lvert\mathbf{v}^{(c)}\rvert$	$\lvert\mathbf{v}^{(v)}\rvert$
Ref. Set	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 1a	**0.4**	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 1b	**1.2**	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 2a	0.8	**0.001**	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 2b	0.8	**0.015**	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 3a	0.8	0.005	**0.005**	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 3b	0.8	0.005	**0.030**	0.005	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 4a	0.8	0.005	0.015	**0.001**	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 4b	0.8	0.005	0.015	**0.015**	0.75	1.0	0.15	5	0.02	0.02	0.02
Set 5a	0.8	0.005	0.015	0.005	**0.3**	1.0	0.15	5	0.02	0.02	0.02
Set 5b	0.8	0.005	0.015	0.005	**1.0**	1.0	0.15	5	0.02	0.02	0.02
Set 6a	0.8	0.005	0.015	0.005	0.75	**0.4**	0.15	5	0.02	0.02	0.02
Set 6b	0.8	0.005	0.015	0.005	0.75	**2.0**	0.15	5	0.02	0.02	0.02
Set 7a	0.8	0.005	0.015	0.005	0.75	1.0	**0.03**	5	0.02	0.02	0.02
Set 7b	0.8	0.005	0.015	0.005	0.75	1.0	**0.3**	5	0.02	0.02	0.02
Set 8a	0.8	0.005	0.015	0.005	0.75	1.0	0.15	**2.5**	0.02	0.02	0.02
Set 8b	0.8	0.005	0.015	0.005	0.75	1.0	0.15	**10**	0.02	0.02	0.02
Set 9a	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	**0**	0.02	0.02
Set 9b	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	**0.1**	0.02	0.02
Set 10a	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	**0**	0.02
Set 10b	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	**0.1**	0.02
Set 11a	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	**0**
Set 11b	0.8	0.005	0.015	0.005	0.75	1.0	0.15	5	0.02	0.02	**0.1**