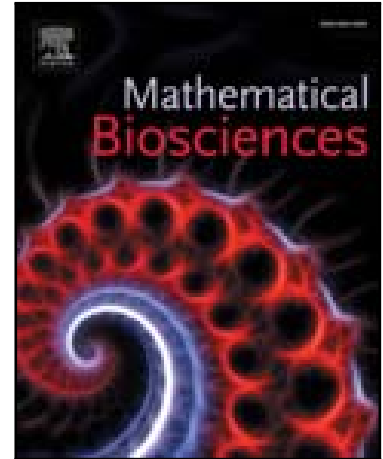


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A model of vascular refilling with inflammation

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Highlights

- A model of capillary refill including inflammation is proposed in hemodialysis (HD)
- The routine biomarker C-reactive protein is used to quantify inflammation
- Parameter estimation aided by sensitivity analysis and subset selection is done
- Filtration coefficient L_p and reflection coefficient σ in HD patients are explored
- The changes in L_p and σ indicate the emergence of capillary leakage before death

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