Electronic Supplementary Material (ESI) for Soft Matter.

Supplementary Videos

- **phi_circle.avi**
  (caption:) Numerical time lapses of wound closure for the half-circle geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file.

- **phi_moon.avi**
  (caption:) Numerical time lapses of wound closure for the half-moon geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file.

- **phi_square.avi**
  (caption:) Numerical time lapses of wound closure for the half-square geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file.

- **pressure_circle.avi**
  (caption:) Numerical time lapses of the pressure field for the half-circle geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file.

- **pressure_moon.avi**
  (caption:) Numerical time lapses of the pressure field for the half-circle geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file.

- **pressure_square.avi**
  (caption:) Numerical time lapses of the pressure field for the half-square geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file.

- **velocity.avi**
  (caption:) Numerical time lapses of the pressure field for the half-square geometry. The parameters of the simulation are listed in Section 4 of the Supplementary Material file, except for the Darcy coefficient, which is set to Da = 3.87 e+02.