Supplementary Table 4. Crude and standardized incidence of PFO-associated stroke subgroups, per 100,000 person-years

	Age (yr)	All			Males			Females		
		n events	n at risk	Incidence rate (95% CI)	n events	n at risk	Incidence rate (95% CI)	n events	n at risk	Incidence rate (95% CI)
PASCAL (highly) probable PFO-associated stroke	18–29	5	390,057	1.3 (0.4–3.0)	2	192,599	1.0 (0.1–3.8)	3	197,458	1.5 (0.3–4.4)
	30–39	12	276,813	4.3 (2.2–7.6)	6	136,486	4.4 (1.6–9.6)	6	140,327	4.3 (1.6–9.3)
	40–49	19	286,446	6.6 (4.0–10.4)	12	141,483	8.5 (4.4–14.8)	7	144,963	4.8 (1.9–10.0)
	50–60	10	312,283	3.2 (1.5–5.9)	6	148,973	4.0 (1.5–8.8)	4	163,310	2.5 (0.7–6.3)
	Total	46	1,265,599	3.6 (2.7–4.9)	26	619,541	4.2 (2.7–6.2)	20	646,058	3.1 (1.9–4.8)
	Standardized incidence rate*			3.8 (2.8–5.1)			4.5 (2.9–6.6)			3.2 (2.0–5.0)
PFO-associated stroke with high-risk anatomic features	18–29	5	390,057	1.3 (0.4–3.0)	2	192,599	1.0 (0.1–3.8)	3	197,458	1.5 (0.3–4.4)
	30–39	12	276,813	4.3 (2.2–7.6)	6	136,486	4.4 (1.6–9.6)	6	140,327	4.3 (1.6–9.3)
	40–49	25	286,446	8.7 (5.7–12.9)	18	141,483	12.7 (7.5–20.1)	7	144,963	4.8 (1.9–10.0)
	50–60	23	312,283	7.4 (4.7–11.1)	17	148,973	11.4 (6.7–18.3)	6	163,310	3.7 (1.4–8.0)
	Total	65	1,265,599	5.1 (4.0–6.6)	43	619,541	6.9 (5.0–9.4)	22	646,058	3.4 (2.1–5.2)
	Standardized incidence rate*			5.4 (4.2–6.9)			7.4 (5.4–10.0)			3.6 (2.2–5.4)

PFO, patent foramen ovale; CI, confidence interval; PASCAL, PFO-Associated Stroke Causal Likelihood.
*Direct standardization, 2013 European Standard Population.

Supplementary Table 5. Projected number of PFO closures required in France after ischemic stroke, according to PASCAL or anatomy-based selection criteria

Age (yr)	n at risk	French population*	(Highly) probable or possible PFO-associated stroke			PFO-associated stroke with high-risk anatomic features†		
			n eligible for PFO closure	Incidence rate‡ (95% CI)	n closures projected (95% CI)	n eligible for PFO closure	Incidence rate‡ (95% CI)	n closures projected (95% CI)
Females								
18–29	197,458	4,611,454	4	2.0 (0.6–5.2)	93 (25–239)	3	1.5 (0.3–4.4)	70 (14–205)
30–39	140,327	4,258,893	6	4.3 (1.6–9.3)	182 (67–396)	6	4.3 (1.6–9.3)	182 (67–396)
40–49	144,963	4,363,112	7	4.8 (1.9–10.0)	211 (85–434)	6	4.1 (1.5–9.0)	181 (66–393)
50–60	163,310	4,998,387	6	3.7 (1.4–8.0)	184 (67–400)	6	3.7 (1.4–8.0)	184 (67–400)
Males								
18–29	192,599	4,712,384	4	2.1 (0.6–5.3)	98 (27–251)	2	1.0 (0.1–3.8)	49 (6–177)
30–39	136,486	4,077,293	6	4.4 (1.6–9.6)	179 (66–390)	6	4.4 (1.6–9.6)	179 (66–390)
40–49	141,483	4,237,926	20	14.1 (8.6–21.8)	599 (366–925)	17	12.0 (7.0–19.2)	509 (297–815)
50–60	148,973	4,778,653	19	12.8 (7.7–19.9)	609 (367–952)	17	11.4 (6.7–18.3)	545 (317–873)
Total	1,265,599	36,038,102	72		2,155 (1,070–3,987)	63		1,899 (900–3,649)

PFO, patent foramen ovale; PASCAL, PFO-Associated Stroke Causal Likelihood; CI, confidence interval.
*2022 French census; †Large PFO or atrial septal aneurysm; ‡Per 100,000 person-years.