1. exp Ultrasonography/

2. exp Ultrasonography, Doppler/

3. exp Ultrasonography, Interventional/

4. ultrasonographically.mp.

5. ultrasound-guided.mp.

6. ultrasound-assisted.mp.

7. ultrasonographically-guided.mp.

8. ultrasonographically-assisted.mp.

9. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8

10. vein, peripheral.mp.

11. peripheral vein$.mp.

12. exp Veins/us [Ultrasonography]

13. 10 or 11 or 12

14. exp Catheterization, Peripheral/

15. peripheral cannulation.mp.

16. Catheterization/

17. cannul$.mp.

18. 14 or 15 or 16 or 17

19. 9 and 13 and 18

20. limit 19 to humans