**Supplement 2. Search strategy**

1. **Search Strategy (Interface - EBSCOhost Research Databases):**

**OR/1-22:** (MM "Heart Failure+"), "heart failure", (MM "Cardiac Output, Decreased"), (MM "Ventricular Dysfunction+"), heart N5 fail\*, cardi\* N4 dysfunction\*, heart N5 dysfunction\*, "congestive heart failure", "cardiac fail\*", "systolic heart failure", "cardiac incompetence" , "cardiac decompensation", "cardiac insufficiency", "chronic heart failure", "cardial insufficiency", "myocardial failure", "myocardial insufficiency", "heart N3 fail\*", "diastolic dysfunction\*", "Systolic dysfunction\*", "heart N3 dysfunction\*", "cardiac dysfunction\*".

**AND**

**OR/24-38: (**MH "Physical Activity"), (MH "Sports+"), (MH "Activities of Daily Living+"), (MH "Exercise+"), (MH "Leisure Activities+"), (MH "Physical Fitness+"), (MH "Movement"), (MH "Aerobic Exercise+"), (MH "Swimming"), (MH "Rehabilitation, Cardiac"), (MH "Resistance training"), (MH "Sports Specific Training"), (MH "Group Exercise"), Physical N5 activ\*, Exercis\*.

**23 AND 38**

1. **Search Strategy (Interface - OVID):**

1. exp heart failure/

2. heart failure.mp.

3. heart decompensation.mp.

4. heart insufficiency.mp.

5. cardiac failure.mp.

6. cardiac incompetence.mp.

7. cardiac decompensation.mp.

8. cardiac insufficiency.mp.

9. exp heart output/

10. cardiac output.mp.

11. exp diastolic dysfunction/

12. exp congestive heart failure/

13. diastolic dysfunction.mp.

14. exp systolic dysfunction/

15. exp heart left ventricle failure/

16. heart left ventricle failure.mp.

17. cardial insufficiency.mp.

18. chronic heart failure.mp.

19. chronic heart insufficiency.mp.

20. decompensation,heart.mp.

21. myocardial failure.mp.

22. myocardial insufficiency.mp.

23. (heart adj3 fail\*).tw.

24. (heart adj3 dysfunction\*).tw.

25. left ventricular dysfunction.tw.

26. (cardiac adj3 dysfunction\*).tw.

27. (cardiac adj3 fail).tw.

28. ventricular dysfunction.mp.

29. chronic cardiac failure.mp.

30. congestive cardiac failure.mp.

**31.** 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30

32. exp physical activity/

33. physical exercise.mp.

34. physical activity.mp.

35. exercise.mp.

36. exp aerobic exercise/

37. aerobic exercise.mp.

38. exp resistance training/

39. resistance training.mp.

40. exercise training.mp.

41. exp daily life activity/

42. exp walking/

43. exp motor activity/

44. daily physical activity.mp.

45. exp motor activity/

46. exp leisure/

47. leisure activities.mp.

48. exp heart rehabilitation/

49. cardiac rehabilitation.mp.

50. exercise program.mp.

51. exercise programme.mp.

52. exp fitness/

53. exp swimming/

54. exp sport/

55. exp endurance training/

56. (physic\* adj3 activ\*).tw.

57. physical activity.tw.

58. exercis\*.tw.

59. walk\*.tw.

60. (daily adj5 physic adj5 activ\*).tw.

**61.** 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60

62. **31** and **61**