



L-PVDOMICS STUDY

Clinical Center Right Heart Catheterization (RHC)

Results Form #680

Instructions: Use this form to record data from a right heart cath (RHC) performed clinically during the L-PVDOMICS follow-up period for **all Levels of participation**.

- RHC must have been performed at the PVDOMICS Study site.
- RHC must be at least 6 months past the end date of the PVDOMICS parent study.
- Must be no more than 3 months prior to or after Form 500 L-PVDOMICS Study enrollment date or up to the time of transplant or death.
- If multiple RHCs, use the one closest to the Form 500 L-PVDOMICS Study enrollment date.

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1. Identification Number

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2. Alphacode

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3. Date of RHC or review (mm/dd/yyyy)

4. Did this participant undergo a right heart catheterization (RHC) during the follow-up period?.....
(0=No; 1=Yes, performed at PVDOMICS study site; 8=N/A - participant is healthy control)

5. Was this RHC completed with an invasive CPET? (0=No, 1=Yes, 9=Unknown)

6. Measured height on day of RHC (cm).....

7. Measured weight on day of RHC (kg).....

Body Surface Area (BSA) (m²).....

(Note: database will calculate BSA and store in database. Write the measurement in the greyed out box on this paper CRF)

8. Measured hemoglobin on day of RHC (g/dl), if available.....

Procedure Notes

9. Was participant using oxygen at the time of this RHC? (0=No, 1=Yes, 8=N/A, never on O₂, 9=Unknown).....

a. What O₂ flow rate was used during right heart catheterization (L/min)?

Resting Right Heart Catheterization

10. Was a Resting Right Heart Catheterization done? (0=No, 1=Yes).....

a. Superior Vena Cava Oxygen Saturation (SVC sat) (%) *if available, if not leave blank*

b. Fraction of Inspired Oxygen (FiO₂) (%) *if available, if not leave blank*.....

c. Pulse Oximetry Oxygen Saturation (O₂ sat) (%) *if available, if not leave blank*

d. Arterial Oxygen Saturation (Art O₂) (%) *if available, if not leave blank*.....

e. Systemic Systolic Blood Pressure (SBP) (mmHg) *if available, if not leave blank*.....

f. Systemic Diastolic Blood Pressure (DBP) (mmHg) *if available, if not leave blank*.....

g. How was Blood Pressure measured? (1=Noninvasive Cuff, 2=Arterial Line, 9=Unknown)

- h. Heart Rate (bpm) *if available, if not leave blank*..... _____
- i. Heart Rhythm (1=Sinus, 2=Atrial fibrillation, 3=Paced, 4=Other, 9=Unknown) _____
- j. Participant Position During Resting RHC (1=Supine, 2=Upright)..... _____

Record pressure measurements during the resting right heart catheterization below, as available.

Right Atrium Measurements:

Breathing Condition	a. Spontaneous Breathing	b. End-Expiratory Hold
11. Right Atrium (RA) Mean Pressure	_____	_____
12. RA Peak “a wave” Pressure	_____	_____
13. RA Peak “v wave” Pressure	_____	_____
14. RA Oxygen Saturation (RA sat) <i>Draw back 3mL of waste in syringe, then 1mL in second syringe for analysis</i>	_____ %	

Right Ventricle Measurements:

Breathing Condition	a. Spontaneous Breathing	b. End-Expiratory Hold
15. Right Ventricle (RV) Peak Systolic Pressure (SBP) (mmHg)	_____	_____
16. RV End Diastolic Pressure (mmHg)	_____	_____

Pulmonary Capillary Wedge Pressure (PCWP) Measurements:

Breathing Condition	a. Spontaneous Breathing	b. End-Expiratory Hold
17. Pulmonary Capillary Wedge (PCW) Mean Pressure (a wave)	_____	_____
18. PCW Peak “a wave” Pressure	_____	_____
19. PCW Peak “v wave” Pressure	_____	_____

20. PCWP Oxygen Saturation (PCWP sat) <i>Draw back 3mL of waste in syringe, then 1mL in second syringe for analysis</i>	____ %	
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Pulmonary Artery (PA) Pressure Measurements:

Breathing Condition	a. Spontaneous Breathing	b. End-Expiratory Hold
21. Pulmonary Artery (PA) Systolic Pressure (mmHg)	____	____
22. PA Diastolic Pressure (mmHg)	____	____
23. PA Mean Pressure measured from Mean PA line by machine	____.____	____.____
24. PA Mean Pressure (calculated) <i>(calculated by PVDOMICS database; record on this form)</i>	____.____	____.____
25. PA Oxygen Saturation (PA sat) <i>Draw back 3mL of waste in syringe, then 1mL in second syringe for analysis</i>	____ %	

Thermodilution Cardiac Output: Record available TDCO measurements below. If more than 3 measurements are available, record the three in closest agreement.

26. Are Resting RHC Thermodilution CO measurements available? (0=No, 1=Yes).....

a. TDCO (L/min) – measurement 1

b. TDCO (L/min) – measurement 2

c. TDCO (L/min) – measurement 3

Direct Fick Cardiac Output:

27. Are Direct Fick Cardiac Output Measurements available? (0=No, 1=Yes)

a. Resting VO₂ (measured) (ml/kg/min)

b. Direct Fick Cardiac Output (L/min)

c. Direct Fick Cardiac Index (L/min/m²)

Oxygen Challenge

28. Was an Oxygen Challenge done? (1=Yes, 2=No)

- a. Fraction of Inspired Oxygen (FiO₂ sat) (%) *if available, if not leave blank*.....
- b. Pulse Oximetry Oxygen Saturation (O₂ sat) (%) *if available, if not leave blank*.....
- c. Arterial Oxygen Saturation (Art O₂ sat) (%) *if available, if not leave blank*
- d. Systolic Blood Pressure (SBP) (mmHg) *if available, if not leave blank*
- e. Diastolic Blood Pressure (DBP) (mmHg) *if available, if not leave blank*
- f. How was Blood Pressure measured? (1=Noninvasive Cuff, 2=Arterial Line, 9=Unknown)
- g. Heart Rate (bpm) *if available, if not leave blank*.....
- h. Heart Rhythm (1=Sinus, 2=Atrial fibrillation, 3=Paced, 4=Other, 9=Unknown)
- i. Participant Position During Oxygen Challenge (1=Supine, 2=Upright)

If available, record pressure measurements during the oxygen challenge below.

Right Atrium Measurements:

- 29. Right Atrium (RA) Mean Pressure
- 30. RA Peak “a wave” Pressure.....
- 31. RA Peak “v wave” Pressure.....

Pulmonary Capillary Wedge Pressure (PCWP) Measurements:

- 32. Pulmonary Capillary Wedge (PCW) Mean Pressure (a wave).....
- 33. PCW Peak “a wave” Pressure.....
- 34. PCW Peak “v wave” Pressure.....

PA Measurements:

- 35. Pulmonary Artery (PA) Systolic Pressure (mmHg).....
- 36. PA Diastolic Pressure (mmHg).....
- 37. PA Mean Pressure measured from Mean PA line by machine.....
- 38. *PA Mean Pressure (calculated by PVDOMICS database; record on this form)*.....

Thermodilution Cardiac Output: Record available TDCO measurements below. If more than 3 measurements are available, record the three in closest agreement.

- 39. Are Oxygen Challenge Thermodilution CO measurements available? (0=No, 1=Yes).....
- a. TDCO (L/min) – measurement 1
- b. TDCO (L/min) – measurement 2.....
- c. TDCO (L/min) – measurement 3.....

Oxygen Challenge Direct Fick Cardiac Output:

09/08/2020: Q54 new code '5=No, other' added.

40. Are Direct Fick Cardiac Output Measurements available? (0=No, 1=Yes) _____
- a. Resting VO_2 (measured) (ml/kg/min) _____
- b. Direct Fick Cardiac Output (L/min) _____
- c. Direct Fick Cardiac Index (L/min/m²) _____

Vasodilatory Challenge

41. Was a Vasodilatory Challenge done? (1=Yes, 2=No) _____
- a. Concentration of nitric oxide used (ppm) *if available, if not leave blank* _____
- b. Fraction of Inspired Oxygen (FiO_2) (%) *if available, if not leave blank* _____
- c. Pulse Oximetry Oxygen Saturation (O_2 sat) (%) *if available, if not leave blank* _____
- d. Arterial Oxygen Saturation (Art O_2) (%) *if available, if not leave blank* _____
- e. Systolic Blood Pressure (SBP) (mmHg) *if available, if not leave blank* _____
- f. Diastolic Blood Pressure (DBP) (mmHg) *if available, if not leave blank* _____
- g. How was Blood Pressure measured? (1=Non-invasive Cuff, 2=Arterial Line, 9=Unknown) _____
- h. Heart Rate (bpm) *if available, if not leave blank* _____
- i. Heart Rhythm (1=Sinus, 2=Atrial fibrillation, 3=Paced, 4=Other, 9=Unknown) _____
- j. Participant Position During Vasodilatory Challenge (1=Supine, 2=Upright) _____

If available, record pressure measurements during the vasodilatory challenge below.

Right Atrium Measurements:

42. Right Atrium (RA) Mean Pressure _____
43. RA Peak “a wave” Pressure _____
44. RA Peak “v wave” Pressure _____

Pulmonary Capillary Wedge Pressure (PCWP) Measurements:

45. Pulmonary Capillary Wedge (PCW) Mean Pressure (a wave) _____
46. PCW Peak “a wave” Pressure _____
47. PCW Peak “v wave” Pressure _____

PA Measurements:

48. Pulmonary Artery (PA) Systolic Pressure (mmHg).....

49. PA Diastolic Pressure(mmHg).....

50. PA Mean Pressure measured from Mean PA line by machine.....

51. PA Mean Pressure (calculated by PVDOMICS database; record on this form).....

Thermodilution Cardiac Output: Record available TDCO measurements below. If more than 3 measurements are available, record the three in closest agreement.

52. Are Vasodilatory Challenge Thermodilution CO measurements available? (0=No, 1=Yes).....

a. TDCO (L/min) – measurement 1

b. TDCO (L/min) – measurement 2

c. TDCO (L/min) – measurement 3

Direct Fick Cardiac Output:

53. Are Direct Fick Cardiac Output Measurements available? (0=No, 1=Yes)

a. Resting VO₂ (measured) (ml/kg/min)

b. Direct Fick Cardiac Output (L/min)

c. Direct Fick Cardiac Index (L/min/m²)**Fluid Challenge**54. Was Fluid Challenge done?
(1=Yes, 2=No, iCPET done instead*, 3=No, logistical issues, 4= No, contraindicated per protocol, 5=No, other)a. Fraction of Inspired Oxygen (FiO₂) (%).....b. Pulse Oximetry Oxygen Saturation (O₂ sat) (%) c. Arterial Oxygen Saturation (Art O₂) (%) *if available, if not leave blank*

d. Systolic Blood Pressure (SBP) (mmHg)

e. Diastolic Blood Pressure (DBP) (mmHg)

f. How was Blood Pressure measured? (1=Noninvasive Cuff, 2=Arterial Line)

g. Heart Rate (bpm)

h. Heart Rhythm (1=Sinus, 2=Atrial fibrillation, 3=Paced, 4=Other).....

i. Participant Position During Fluid Challenge (1=Supine, 2=Upright)

Complete Form 689 for invasive CPET as well.*All Pressure Measurements during the challenge will be taken during spontaneous breathing****Right Atrium Measurements:**

55. Right Atrium (RA) Mean Pressure

56. RA Peak "a wave" Pressure.....

57. RA Peak "v wave" Pressure.....

Pulmonary Capillary Wedge Pressure (PCWP) Measurements:

58. Pulmonary Capillary Wedge (PCW) Mean Pressure (a wave).....

59. PCW Peak "a wave" Pressure.....

60. PCW Peak "v wave" Pressure.....

Pulmonary Artery Measurements:

61. Pulmonary Artery (PA) Systolic Pressure (mmHg).....

62. PA Diastolic Pressure (mmHg).....

63. PA Mean Pressure measured from Mean PA line by machine.....

64. PA Mean Pressure (calculated by PVDOMICS database; record on this form).....

Thermodilution Cardiac Output: Record available TDCO measurements below. If more than 3 measurements are available, record the three in closest agreement.

65. Are Fluid Challenge Thermodilution CO Measurements available? (0=No, 1=Yes)

a. TDCO (L/min) – measurement 1

b. TDCO (L/min) – measurement 2.....

c. TDCO (L/min) – measurement 3.....

Direct Fick Cardiac Output:

66. Are Direct Fick Cardiac Output Measurements available? (0=No, 1=Yes)

a. Resting VO₂ (measured) (ml/kg/min).....

b. Direct Fick Cardiac Output (L/min).....

c. Direct Fick Cardiac Index (L/min/m²).....**If any adverse events or unexpected problems occurred during the RHC, please include available**

09/08/2020: Q54 new code '5=No, other' added.

details in the comments box below.

Are any comments documented? (0=No comments, 1=Yes, specify below).....

Comments (entered into database):

100. Username of physician who either completed this form **OR** reviewed and verified accuracy of the data reported on this form
(Username of physician is the first 6 letters of last name and first initial.)

200. Date this form was completed (mm/dd/yyyy) / /

201. Username of person completing/reviewing completeness of this form.....

Clinical Center Use Only

Date Form Entered (mm/dd/yyyy) ____/____/____

Username of person entering this form _____