Dear Dr. _____,


Your patient _____, a _____ year old _____ with _____ CAD was referred to us for an advanced cardiopulmonary exercise test to evaluate dyspnea.  She has _____ cardiac risk factors.


The patient's resting ECG was _____.  She was on the following medications at the time of testing:  _____.


Exercise Protocol:


_____ exercised for ___:____ minutes of a ____-watt/min ramp cycle protocol to a maximum of _____ watts.  Oxygen saturation was measured at rest and stress using a pulse-oximeter.  The heart rate increased from _____ at rest to a peak heart rate of_____, and the blood pressure increased from _____ at rest to _____ at peak exercise (RPP: _____).  Oxygen saturation _____ during exercise.  Exercise was terminated due _____. The symptomatic response to exercise was _____.  The blood pressure response was _____.  The ECG response to exercise was _____. _____ exercise-induced arrhythmia was observed.


==================

= ANTHROPOMETRICS =

==================

Age:          Gender:   Height:

Weight:          BMI:          Hgb:


====================

= EXERCISE CAPACITY =

====================

Exercise Protocol:          watts/min

Maximum Watts Achieved:

Exercise Duration:

Reason to End Exercise:

-------------------------------------------------------------

                  Predicted      Measured  % of Predicted

-------------------------------------------------------------

Rest VO2 (mL/min)

AT VO2 (mL/min)

Peak VO2 (mL/min)

Peak VO2/kg (mL/kg/min)

-------------------------------------------------------------


==========================

= CARDIOVASCULAR RESPONSE =

==========================


Symptomatic Response:

Blood Pressure Response:

ECG Response:

Stress Induced Arrhythmias:

-------------------------------------------------------------

                  Predicted     Measured  % of Predicted

-------------------------------------------------------------

Rest Heart Rate (bpm)

Peak Heart Rate (bpm)

HR Reserve (bpm)

HR Recovery (1 min)

Rest Blood Press (mm Hg)

Peak Blood Press (mm Hg)


Peak O2 Pulse (mL/beat)

VO2/WR (mL/min/watt)

HR/VO2

Cardiac Output (Qt)


Rest RER

Peak RER

-------------------------------------------------------------


=======================

= VENTILATORY RESPONSE =

=======================


---------------------------------------------

                   Measured    Percent

---------------------------------------------

MVV (Measured)

MVV (Calculated)

Respiratory Reserve

VE/VCO2 (Slope)

VE @ AT

VE @ Peak

MVV - VE(peak)

------------------------------------------

PRE-SPIROMETRY

---------------------------------------------

                Measured    Percent

---------------------------------------------

FVC (L)

FEV1 (L)

FEV1/FVC (%)

MVV (L/min)

---------------------------------------------

=========================

= GAS EXCHANGE VARIABLES =

=========================

--------------------------------------

                Rest    Peak

--------------------------------------

SaO2%

pH

PaCO2 (mmHg)

PaO2 (mmHg)

PETCO2 (mmHg)

P(A-a)O2 (mmHg)

P(a-ET)CO2 (mmHg)

--------------------------------------

```
==================================

= ADVANCED CARDIOPULMONARY VITALS =

==================================


--------------------------------------------------

Time  Watts  VO2   Qt    SvO2  HR   SV    BP

--------------------------------------------------

REST

--------------------------------------------------

FW1    (min)

--------------------------------------------------

1

2

3

4

5

6

7

--------------------------------------------------

PEAK

--------------------------------------------------

REC 1 min

REC 2 min

--------------------------------------------------
```

===================================

= ADVANCED CARDIOPULMONARY PRESSURES =

===================================

---------------------------------------------------

Time  RAP  PASP  mPAP  PCW  PVR  TPG  Compliance

---------------------------------------------------

REST

---------------------------------------------------

FW1

---------------------------------------------------

1

2

3

4

5

6

7

---------------------------------------------------

PEAK

---------------------------------------------------

REC1

REC2

---------------------------------------------------

```
==============================

= ADVANCED CARDIOPULMONARY GASES =

==============================
```

-----------------------------------------------------

Time  CaO2  CvO2  Ca-vO2  PaO2  PaCO2  pH    Lactate

-----------------------------------------------------

REST

-----------------------------------------------------

FW1

-----------------------------------------------------

1

2

3

4

5

6

7

-----------------------------------------------------

PEAK

-----------------------------------------------------

REC1

REC2

-----------------------------------------------------

In summary, the test results were:

1. Functional Capacity:

2. Peak Heart Rate:

3. Symptomatic Response:

4. Peak Blood Pressure:     .

5. Blood Pressure Response: Normal.

6. ECG Response:  .

7. Stress-induced Arrhythmia:  .

8. SVC supine SO2:    . PA SO2:

9. Baseline K+:    . Na+:    .

10. Peak K+:   . Na+:    .

11. 1 Min Rec K+:    . Na+:    .

12. 2 Min Rec K+:     . Na+:    .

13. Peak vPO2:    . vPCO2:     . vpH:

14. 1 Hour post Lactate:

CONCLUSION:

Thank you for referring this patient to us.

Sincerely yours,

Attending Physician

**FIGURE 5**