

 <p style="text-align: center;">DIVISION OF ADULT INSTITUTIONS</p> <p style="text-align: center;">POLICY AND PROCEDURES</p>	DAI Policy #: 500.30.63	Page 1 of 4
	Original Effective Date: 03/03/14	New Effective Date: 02/15/17
	Supersedes: 500.30.63	Dated: 03/03/14
	Administrator's Approval: Jim Schwochert, Administrator	
Required Posting or Restricted:		
<input checked="" type="checkbox"/> Inmate <input checked="" type="checkbox"/> All Staff <input type="checkbox"/> Restricted		
Chapter: 500 Health Services		
Subject: Spirometry		

POLICY

All Division of Adult Institution facilities shall ensure inmate patients have access to medically necessary spirometry testing, when symptomatic with reactive airway disease and ordered by an Advanced Care Provider. Spirometry testing shall be provided by a trained licensed nurse or Respiratory Therapist.

DEFINITIONS, ACRONYMS AND FORMS

Advanced Care Provider (ACP) – Provider with prescriptive authority.

DOC-3021 – Progress Notes

FEV1 – Forced Expiratory Volume in one second

FVC – Forced Vital Capacity

HSU – Health Services Unit

MDI – Metered dose inhaler

Spirometry – Test used to diagnose asthma, chronic obstructive pulmonary disease and certain other conditions that affect breathing. Spirometry may also be used to check how well your lungs are working once you're being treated for a chronic lung condition. It measures how much air you can inhale and exhale and how fast you can exhale.

PROCEDURE**I. Equipment and Services**

- A. All facilities shall have access to a laptop computer designated for spirometry.
- B. Essential supplies shall be available including:
 1. Nose clips.
 2. Mouth pieces.
 3. Printer and paper.
 4. Bronchodilator albuterol inhaler.
 5. Disposable single use spacer.

II. Performing Spirometry Evaluation

- A. The ACP shall write an order for spirometry. Order shall be written as either spirometry or pre- and post-spirometry.

DAI Policy #: 500.30.63	New Effective Date: 02/15/17	Page 2 of 4
Chapter: 500 Health Services		
Subject: Spirometry		

- B. If pre- and post- is ordered the following shall be completed:
1. The nurse shall instruct the inmate patient not to use any inhaler for 12 hours prior to testing for best results.
 2. Have inmate patient come to HSU and bring their rescue inhaler with them if they have one.
 - a. HSU will provide a MDI albuterol inhaler with a disposable spacer if one is not issued.
 - b. After use of a HSU MDI albuterol inhaler, wipe down MDI albuterol inhaler with alcohol and throw away disposable spacer between use.
 3. Evaluate inmate patient to make sure they are capable of performing the test. Do not complete the test if the inmate patient is significantly wheezing or short of breath or has other signs of respiratory distress.
 4. If able to continue, inform inmate patient that the test is intended to see how well they are breathing.
 5. Instruct the inmate patient to sit straight up in a chair with their feet flat on the ground. They may stand if they prefer, but a chair shall be in front or near the inmate patient.
 6. Instruct inmate patient that this test can be completed in as little as three attempts or as many as eight, depending on effort.
 7. Demonstrate proper breathing technique and coach throughout the process as follows:
 - a. Put the mouth piece in the mouth and make sure that lips are sealed around the mouth piece.
 - b. Take two normal breaths and on the third breath take a deep breath in as big as they can and blow out as hard and fast as they can and wait until the machine beeps or six seconds followed by a deep breath in.
 8. Repeat this process three times or up to eight times.
 - a. Two tests that are reproducible are required.
 - b. This means there should be no more than 150mls difference between the FVC and FEV1 of the best effort tests.
 9. If a pre- and post- is ordered, have inmate patient take four puffs of an albuterol inhaler and wait for 10-15 minutes and repeat steps 5-8 above.
 10. Print results and file in medical chart behind imaging tab and flag for ACP review.
 11. If inmate patient becomes dizzy or coughs throughout the procedure and cannot do an adequate test document on the DOC-3021 – Progress Notes that inmate patient was unable to complete the test. Print the incomplete test results, flag and file in medical chart as above and reschedule testing for another time, if ordered by ACP.

DAI Policy #: 500.30.63	New Effective Date: 02/15/17	Page 3 of 4
Chapter: 500 Health Services		
Subject: Spirometry		

Bureau of Health Services: _____ **Date Signed:** _____
James Greer, Director

_____ **Date Signed:** _____
Ryan Holzmacher, MD, Medical Director

_____ **Date Signed:** _____
Mary Muse, Nursing Director

Administrator's Approval: _____ **Date Signed:** _____
Jim Schwochert, Administrator

DIVISION OF ADULT INSTITUTIONS FACILITY IMPLEMENTATION PROCEDURES

Facility: Name		
Original Effective Date:	DAI Policy Number: 500.30.63	Page 4 of 4
New Effective Date: 00/00/00	Supersedes Number:	Dated:
Chapter: 500 Health Services		
Subject: Spirometry		
Will Implement <input type="checkbox"/> As written <input type="checkbox"/> With below procedures for facility implementation		
Warden's/Center Superintendent's Approval:		

REFERENCES

DEFINITIONS, ACRONYMS, AND FORMS

FACILITY PROCEDURE

- I.
 - A.
 - B.
 - 1.
 - 2.
 - a.
 - b.
 - c.
 - 3.
 - C.

II.

III.

RESPONSIBILITY

I. Staff

II. Inmate

III. Other