Warm-Up Exercises* Rehabilitation Institute of Chicago Medical Program for Performing Artists

Always be cautious when trying out any exercises and, if any discomfort is experienced, stop and consult your physician.

Warming Up:

- The optimum speed of chemical reaction and metabolism is 102-103 degrees Fahrenheit.
- Evidence suggests that speed, strength, and efficiency of contractions are enhanced by a rise in temperature of muscle toward that range.
- The only efficient way of raising muscle temperature is by work of the muscle itself.
- Ten to fifteen minutes of active exercise for all upper-extremity joints are recommended.

Warm-Up Exercises:

Avoid jerking motions. Perform each exercise smoothly and with moderate speed.

- 1. Shoulder flexion. Raise both arms overhead then relax at sides. (twenty repetitions)
- 2. Shoulder abduction. With both arms at your sides, raise your arms outward and upward overhead. Then relax to your sides. (twenty repetitions)
- 3. Shoulder shrugs. (twenty repetitions)
- 4. Pinch shoulder blades together. (twenty repetitions)
- 5. Elbow flexion-extension. Bend and straighten elbows fully. (twenty repetitions)
- 6. Shoulder circles. With arms at sides, rotate shoulders in circles. (seven repetitions clockwise; seven repetitions counterclockwise)
- 7. With elbows flexed and hands extended forward, palms up/palms down. (twenty repetitions)
- 8. With elbows flexed and hands extended forward, wrists up/wrists down. (twenty repetitions)
- 9. Bend wrist to little finger side then thumb side. (ten repetitions)
- 10. Spread fingers apart/squeeze fingers together. (ten repetitions)
- 11. Keeping the hand straight, bend fingers at the middle joint. The fingers form a hook, (ten repetitions)

Cooling Down:

- After vigorous activity muscles may tend to cramp or experience fatigue/discomfort.
- Stretching muscles their entire length, holding, and then relaxing them helps to alleviate these conditions,
- Ten to fifteen minutes are recommended. Hold each repetition for a long five count.

Cool Down Exercises:

- 1. Raise arms overhead. (five repetitions)
- 2. Touch opposite shoulder and hold. (five repetitions each arm)
- 3. Bend neck to the right then to the left. Hold each for a count of five. (five repetitions)
- 4. Hands behind head, elbows out to the side, push back on flexed elbows. (five repetitions)
- 5. Clasp hands behind hips and roll shoulders outward. (five repetitions)
- 6. Make a fist and bend wrist downward. (five repetitions)
- 7. Keep fingers extended and bend wrist backwards at the wrist. (five repetitions)
- 8. Spread fingers, then relax. (five repetitions)

Above is a list of warm-up and cool-down exercises distributed to patients at the Rehabilitation Institute of Chicago's Medical Program for Performing Artists. It was developed and written by occupational therapist, Carol Brooks, OTR and pioneering music-medicine physician, Alice Brandfonbrener, MD.

*Berenson et al, "Healthy Practicing", <u>A Symposium for Pianists and Teachers: Strategies to Develop the Mind and Body for Optimal Performance</u>, pgs. 219-220; Heritage Music Press, Dayton, OH.