



Standard Operating Procedures
Tier 1 Veterinary Medical Center
Microscope Use and Maintenance

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Part	Microscope Use and Maintenance	Issued by	Administration
Pages	2		

Introduction:

It is the standard operating procedure of Tier 1 VMC to provide continuous upkeep of the hospital for both patients and clients.

The procedures for microscope use and maintenance is as follows:

General Requirements:

1. NEVER “washboard” the microscope across the counter (dragging it and making it go “thud, thud, thud, thud”)
 - a. If the microscope needs to be moved- pick it up carefully with both hands, one hand on the base and one hand on the “arm” (back of microscope) and gently set it back down
2. Before using the microscope, be sure the platform is lowered all the way and that the lowest powered lens (4x0.10) is used first
3. Place slide on the “stage” of the platform
 - a. Use your left hand, and press the lever towards the back of the microscope
 - b. Insert slide without touching the surface of the slide, and gently let the lever slide back into place
1. Turn the light of the microscope on (the switch on the right hand side). Use the illuminator under the switch to adjust the brightness
 - a. Medium-medium/high light will work to start, adjust the brightness as needed
2. Scan slide
 - a. Adjust using the coarse focus knob on the left-side of the microscope to raise the platform until the slide comes in to focus. Use the knob on the underside of the platform to move the slide up and down, or side to side
 - b. Flip to the next objective lens (10x0.25). Use the fine focus knob on the left to focus the slide
 - c. Flip to the next objective lens (40x0.65). Again, use the fine focus knob on the left to focus in
 - d. Once focused, flip to the highest objective (100x1.25), place a drop of immersion oil on the microscope slide before using the lens. DO NOT DRAG OTHER OBJECTIVES THROUGH OIL



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- e. do not use coarse focus with 40x and 100x objectives
- 2. After scanning the slide, wipe off the highest objective lens with a lens wipe, flip the lenses back to the smallest objective, drop the platform all the way back down and turn the light off. Remove your slide, and set aside or throw away in sharps
- 3. Cleaning the eyepiece lenses:
 - a. If they are dusty, you can breathe condensation on them and use a lens wipe to wipe away any dust
 - b. If necessary, wipe lenses with lens wipe