

## Usage of Microscope

No	Description/Details of Steps in Activity	Hazards	Possible Accident / Ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control
1	Cleaning the glass slide with detergent.	1) Breakage of the glass slide; 2) naturally sharp edges on the glass slide.	Injury from broken slide or sharp edges	Handle glassware over the lab bench; wear proper PPE (gloves, lab coat, covered shoes); the usual precautions outlined in the "Use of Laboratory Glassware" SOP must be taken.	1	1	1	
2	Transferring sample to the glass slide.	Breakage of glass slide.	Injury from broken slide.	Handle glassware over the lab bench; wear proper PPE; the usual precautions outlined in the "Use of Laboratory Glassware" SOP must be taken.	1	1	1	
3	Overlay sample with a glass cover slip.	Dropping the cover slip onto the bench top or floor.	Breaking the glass coverslip when retrieving it & subsequent injury.	Wear proper PPE; use a brush and dustpan to retrieve the glass coverslip (do not attempt to use the coverslip- discard it into the glass waste).	1	2	2	
4	Transferring the glass slide to/from the microscope for viewing.	1) finger pinched (or cut) by the stage clip; 2) breakage of glass slide	Injury to fingers (pinch or cut).	1) Use both hands to position the slide, wear proper PPE; 2) handle glassware over the lab bench and use the precautions as outlined in the "Use of Laboratory Glassware" SOP.	1	1	1	
5	Looking through the eye piece to observe samples.	1) Accidental knocking of the one's head onto the eye piece; 2) backlight too intense	Injury of the eye.	1) Position hands around the eye pieces to help serve as a guide for lowering your head and eyes; 2) before viewing the sample, reduce the backlight to zero, then look into the eyepieces and raise the light intensity.	2	1	2	

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6	Leaving the backlight on to view the sample.	Overheating of microscope parts due to the backlight.	Slight burns upon skin contact with the heated light element.	Switch off backlights whenever not in use.	2	1	2	
7	(Optional) Viewing fluorescence using the mercury lamp (aka Intensilight)	Physical hazard- Mercury lamps release extremely potent and visible UV radiation.	Injury of the eye and skin.	Avoid looking at the microscope stage and slide directly- always view them through the UV light shield; note the number of hours the mercury lamp has been used (shown on the unit itself)- going beyond its expected lifespan (~2000 hrs) is an increased fire risk (see Nikon Intensilight manual).	2	1	2	