

RISK OF MELANOMA AMONG ONTARIO WORKERS EXPOSED TO ULTRAVIOLET RADIATION



KEY FINDINGS



Ontario workers exposed to low and high levels of occupational ultraviolet radiation (UVR), also known as sun exposure, had **increased risks of melanoma** compared to indoor workers.



Specifically, workers with **low levels of UVR exposure** had higher melanoma rates on the arms and trunk of the body. Workers with **high levels of UVR exposure** had higher melanoma rates on the head and trunk of the body.

LEVELS OF UVR EXPOSURE - based on average exposure per day

Low exposure:
Intermittent or partially shaded sun exposure



Moderate exposure:
2 to <6 hours of sun exposure



High exposure:
≥6 hours of sun exposure



INCREASED RISK OF MELANOMA AT LOW VERSUS HIGH UVR EXPOSURE

	LOW EXPOSURE		HIGH EXPOSURE	
Increased risk:	Females --	Males ↑ 29%	Females ↑ 36%	Males ↑ 10%
Most common occupations:	1 Truck Drivers 2 Other Motor Transport		1 Farm Workers 2 Mail Carriers	
Most common locations:				



View the publication: www.nature.com/articles/s41598-026-48477-4