

# UCMC Transplant

## Marijuana Product Use in Solid Organ Transplant Recipients

### General information about Marijuana products (also known as Cannabinoids)

What are Marijuana products (or Cannabinoids)?	Any product derived from the plant <i>Cannabis sativa</i> , including: THC (tetrahydrocannabinol), CBD (cannabidiol) and CBN (cannabinol)
What forms are available?	Edible Oil Vapor Patch Tincture Plant material
How are the products administered? (legally available forms per route included in parenthesis)	Oral (oil, tincture, capsule, edible) Vaporization (oil, plant material) Topical (patch, lotion, cream, ointment) Smoking (NO legally available forms)

### Recommendations for Marijuana product use in Transplant Recipients:

- Recreation use: avoid use of ANY products due to risks summarized below.

Risks of cannabinoid use	Comments
Increased immunosuppression	<ul style="list-style-type: none"> <li>• Marijuana products have immunomodulatory and anti-inflammatory properties</li> <li>• Inhibit T cell migration and proliferation</li> </ul>
Drug-cannabinoid interactions	<ul style="list-style-type: none"> <li>• Marijuana products alter metabolism of calcineurin inhibitors (tacrolimus and cyclosporine) and mTOR inhibitors (everolimus and sirolimus) which may result in variable drug levels</li> </ul>
Increased risk of infection	<ul style="list-style-type: none"> <li>• Marijuana products are known to harbor <i>Aspergillus</i> spores</li> </ul>

- Medical use: must be recommended by a certified physician. If used medically, educate recipients to contact the transplant team as increased laboratory monitoring may be required.

### Other resources:

- Details on the Ohio law regarding marijuana products are available at [www.medicalmarijuana.ohio.gov](http://www.medicalmarijuana.ohio.gov)
- UHealth Policy "Control of Medical Marijuana" can be found through the UHealth intranet policy portal (SOP# UCH-DPS-SOP-001-02)