UCMC Transplant
Marijuana Product Use in Solid Organ Transplant Recipients

General information about Marijuana products (also known as Cannabinoids)

<table>
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<th>What are Marijuana products (or Cannabinoids)?</th>
<th>Any product derived from the plant <em>Cannabis sativa</em>, including: THC (tetrahydrocannabinol), CBD (cannabidiol) and CBN (cannabinol)</th>
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| 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.

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<th>Risks of cannabinoid use</th>
<th>Comments</th>
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| Increased immunosuppression | • Marijuana products have immunomodulatory and anti-inflammatory properties
|                           | • Inhibit T cell migration and proliferation |
| Drug-cannabinoid interactions | • Marijuana products alter metabolism of calcineurin inhibitors (tacrolimus and cyclosporine) and mTOR inhibitors (everolimus and sirolimus) which may result in variable drug levels |
| Increased risk of infection | • Marijuana products are known to harbor Aspergillus spores |

- 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)
- UCH Health Policy “Control of Medical Marijuana” can be found through the UCH Health intranet policy portal (SOP# UCH-DPS-SOP-001-02)