

To: Emergency Department Physician/Nurse  
RE: IMMUNOTHERAPY ADVERSE REACTION

From: Dr. \_\_\_\_\_ (patient's oncologist) at  
\_\_\_\_\_ (cancer centre)

This patient has received treatment with: \_\_\_\_\_.

**Immune-related side effects** are known to occur following this treatment. Side effects occur due to unintended tissue injury following treatment with immunotherapy, and any organ system may be involved.

**Immune-related side-effects** may be severe or life-threatening, and require different management from chemotherapy associated toxicities.

If **immune-related side-effects** are suspected, please contact the medical oncologist listed above (or the covering designate). With prompt management, immune-related side-effects are generally reversible, however immunosuppression may be required.

<b>Signs and symptoms suggestive of immune-related side-effects:</b>	
<b>Gastrointestinal:</b> ♦ Colitis                      ♦ Pancreatitis ♦ Enteritis                     ♦ Hepatitis	<ul style="list-style-type: none"> <li>• Diarrhea</li> <li>• Nausea</li> <li>• Elevated lipase</li> <li>• Gastrointestinal bleeding</li> <li>• Elevated liver enzymes</li> <li>• Abdominal pain/cramping</li> </ul>
<b>Pulmonary:</b> ♦ Pneumonitis	<ul style="list-style-type: none"> <li>• Shortness of breath</li> <li>• Cough</li> <li>• Chest pain</li> <li>• Fever</li> </ul>
<b>Skin:</b> ♦ Dermatitis	<ul style="list-style-type: none"> <li>• Pruritic rash</li> </ul>
<b>Endocrine:</b> ♦ Hypophysitis                ♦ Adrenal failure ♦ Thyroiditis ♦ Hypothyroidism          ♦ Diabetes	<ul style="list-style-type: none"> <li>• Fatigue, lethargy</li> <li>• Dehydration</li> <li>• Hypotension</li> <li>• Headache, visual disturbances</li> <li>• Mental status changes</li> </ul>
<b>Musculoskeletal:</b> ♦ Arthritis ♦ Myositis	<ul style="list-style-type: none"> <li>• Joint pain/swelling</li> <li>• Fatigue/myalgias</li> </ul>
<b>Neurological:</b> ♦ Peripheral neuropathy ♦ CNS inflammation	<ul style="list-style-type: none"> <li>• Numbness/pain</li> <li>• Mental status change</li> <li>• Headache</li> <li>• Focal neurological deficit</li> </ul>

## Signs and symptoms suggestive of immune-related side-effects:

<b>Renal:</b> ♦ Acute kidney injury	<ul style="list-style-type: none"> <li>• Swelling</li> <li>• Elevated serum creatinine</li> </ul>
<b>Cardiac:</b> ♦ Myocarditis ♦ Pericarditis	<ul style="list-style-type: none"> <li style="width: 50%;">• Chest pain</li> <li style="width: 50%;">• ECG changes</li> <li style="width: 50%;">• Fever</li> <li style="width: 50%;">• Elevated cardiac enzymes</li> </ul>
<b>Fever:</b> 38.9 °C or higher with any of the following:	<ul style="list-style-type: none"> <li style="width: 50%;">• lasts longer than 24 hours</li> <li style="width: 50%;">• with other symptoms: cough, shortness of breath, pain, dizziness, nausea or diarrhea</li> <li style="width: 50%;">• feels unwell</li> </ul>

### CONTACT INFORMATION:

Daytime Weekdays	
<b>Calgary</b> (Tom Baker Cancer Centre)	403-521-3735 or Toll Free 1-844-465-6330 After hours, weekends and holidays call the Foothills Medical Centre at 403-944-1110 (ask to speak to the oncologist or hematologist on call)
<b>Edmonton</b> (Cross Cancer Institute)	780-432-8771 or Toll Free 1-877-707-4848 After hours, weekends and holidays call 780-432-8771 (ask to speak to the medical oncologist on call)
<b>Grande Prairie</b> (Grande Prairie Cancer Centre)	780-538-7588
<b>Lethbridge</b> (Jack Ady Cancer Centre)	403-388-6800
<b>Medicine Hat</b> (Margery E. Yuill Cancer Centre)	403-529-8817
<b>Red Deer</b> (Central Alberta Cancer Centre)	403-343-4526
After Hours	
<b>RAAPID North</b> at 1-800-282-9911	
<b>RAAPID South</b> at 1-800-661-1700	

***Thank you for your assistance in the care of this patient***