# Clinical Profiles:

## Composition

**Must Support Differences:**

The following elements are considered "must support" in the IPS-UV specification that are relaxed in this version of the PS-CA profile:

* Composition.event: Relaxed MS flag on event due to the scope of the PS-CA needing to support summaries that are generated outside a direct care event (e.g., including summaries that are machine-generated/on-demand)
* Composition.encounter: Relaxed MS flag since policy has not been developed in Canada confirming the expectations under which a patient summary is created

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Other differences between the IPS and PS-CA v0.0.3:**

* Across Composition: Removed redundant data type profiling on fixed/patterned codeable concepts, modified references to point to equivalent PS-CA profiles
* Composition.author, Composition.attester, Composition.custodian –
  + Modified references to point towards Canadian Baseline profiles and the PS-CA patient profile since the IPS-UV currently points to profiles that are improperly scoped to diagnostic result authoring practitioners, organizations, etc.

## Patient

**Must Support Differences:**

* Patient.telecom
* Patient.address
* Patient.contact (e.g., next of kin) and sub-elements
* Patient.communication.language
* Patient.generalPractitioner

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* Patient.identifier: slices added for Canadian identifier types

**Other differences between the IPS and PS-CA v0.0.3:**

* Patient.name.text: comment added
* Patient.contact.relationship: removal of IPS datatype profile

## Medication Profile

**Must Support Differences:**

* Medication
* Medication.ingredient

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* Medication.code: optional slice added for Canadian Clinical Drug Data Set (CCDD) codes
* Medication.form: optional slice added for SNOMED CT Canadian edition dose forms
* Medication.ingredient.itemCodeableConcept.coding: optional slice added for SNOMED CT Canadian edition drug active substances

**Other differences between the IPS and PS-CA v0.0.3s:**

* Medication.code:
  + IPS datatype profile replaced with PS-CA datatype profile;
  + Canadian vocabulary examples added
* Medication.form:
  + IPS datatype profile replaced with PS-CA datatype profile
* Medication.ingredient.strength:
  + IPS datatype profile replaced with PS-CA datatype profile

## MedicationRequest

**Must Support Differences:**

* MedicationRequest.requester
* MedicationRequest.dosageInstruction.timing
* MedicationRequest.dispenseRequest.validtityPeriod and sub-elements

**Note**: Systems that support these elements are encouraged to send them in patient summaries

**Cardinality Differences:**

* MedicationRequest.dispenseRequest.validityPeriod minimum cardinality and associated invariant on extension removed.

**Vocabulary Differences:**

* MedicationRequest.medicationCodeableConcept: the base FHIR example SNOMED CT medication value set is replaced by PrescriptionMedicinalProduct (CCDD) value set

**Other differences between the IPS and PS-CA v0.0.3:**

* MedicationRequest: comment added describing resource origin
* MedicationRequest.medicationCodeableConcept: comment added on possible future use of coded values.
* MedicationRequest.dosageInstruction.route: IPS datatype profile removed

## MedicationStatement

**Must Support Differences:**

* MedicationStatement
* MedicationStatement.informationSource
* MedicationStatement.dosage.timing

**Cardinality Differences:**

* MedicationStatement.medicationCodeableConcept: IPS example value set replaced with preferred Canadian Pharmaceutical Biological Product value set

**Vocabulary Differences:**

* MedicationStatement.medicationCodeableConcept: added preferred binding of SNOMED CT Canadian Edition pharmaceutical/biologic products
* MedicationStatement.dosage.route.coding: slice added for SNOMED CT Canadian Edition routes of administration.

**Other differences between the IPS and PS-CA v0.0.3:**

* MedicationStatement.status:
  + comment added clarifying IPS existing and projected vocabulary
* MedicationStatement.medicationReference:
  + reference target changed to PS-CA medication;
  + comment added clarifying IPS use
* MedicationStatement.medicationCodeableConcept:
  + replaced IPS datatype profile with PS-CA profile;
  + short and full definitions, and comment added/expanded to clarify use for absent medication information and use of coded values.
* MedicationStatement.patient:
  + reference target changed to PS-CA patient
* MedicationStatement.dosage.route:
  + reference target changed to PS-CA medication;

## AllergyIntolerance

**Must Support Differences:**

* AllergyIntolerance
* AllergyIntolerance.extension abatement-datetime slice
* AllergyIntolerance.clinicalStatus *(technically being relaxed in v0.0.4 which will be out in Jan)*
* AllergyIntolerance.verificationStatus
* AllergyIntolerance.type
* AllergyIntolerance.criticality
* AllergyIntolerance.code
* AllergyIntolerance.asserter
* AllergyIntolerance.reaction.onset

**Cardinality Differences:**

* AllergyIntolerance.verificationStatus.coding:
  + removed minimum cardinality constraints from system and code

**Vocabulary Differences:**

* AllergyIntolerance.verificationStatus: optional slice added for  AllergyIntoleranceVerificationStatus value set
* AllergyIntolerance.code:
  + comment added describing alternative value sets
  + slice added for SNOMED CT Canadian Edition allergic condition and propensity to adverse reaction codes
* AllergyIntolerance.reaction.manifestation:
  + slice added for SNOMED CT Canadian Edition clinical findings

**Other differences between the IPS and PS-CA v0.0.3:**

* AllergyIntolerance.clinicalStatus:
  + removed IPS datatype profile
* AllergyIntolerance.verificationStatus:
  + removed IPS datatype profile
* AllergyIntolerance.patient:
  + reference target changed to PS-CA patient
* AllergyIntolerance.reaction.manifestation:
  + comment added about future potential use of coded elements

## Condition

**Must Support Differences:**

* Condition.verificationStatus
* Condition.category
* Condition.severity
* Condition.code:problemGPSCode
* Condition.abat
* Condition.abatementDateTime
* Condition.asserter

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* Condition.severity: slice added for SNOMED CT Canadian Edition severity codes
* Condition.code: slice added for SNOMED CT Canadian Edition clinical findings
* Condition.bodySite: slice added for SNOMED CT Canadian Edition anatomical regions

**Other differences between the IPS and PS-CA Include:**

* Condition.subject:
  + reference target changed to PS-CA patient

## Procedure

**Must Support Differences:**

* Procedure.bodySite

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* Procedure.code: slice added for SNOMED CT Canadian Edition procedure codes
* Procedure.bodySite:
  + SNOMED CT Canadian Edition anatomical regions
  + binding strengthened to preferred

**Other differences between the IPS and PS-CA Include:**

* Procedure.code: IPS datatype profile replaced with PS-CA profile
* Procedure.subject: reference target changed to PS-CA patient
* Procedure.performer.actor: removed profiling
* Procedure performer.onBehalfOf: removed profiling

## Immunization

**Must Support Differences:**

* Immunization
* Immunization.vaccineCode:vaccineGPSCode
* Immunization.vaccineCode:atcClass
* Immunization.site
* Immunization.performer and sub-elements
* Immunization.protocolApplied.targetDisease:targetDiseaseGPSCode

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* Immunization.vaccineCode: slices added for Canadian Vaccine Catalog generic and tradename value sets

**Other differences between the IPS and PS-CA v0.0.3:**

* Immunization.vaccineCode: IPS datatype profiling removed
* Immunization.patient: reference target changed to PS-CA patient
* Immunization.site: IPS datatype profile replaced with PS-CA profile
* Immunization.route: IPS datatype profile replaced with PS-CA profile

## SHx Observation: Alcohol Use (PS-CA)

**Must Support Differences:**

* There are no direct "must support" differences between IPS-UV and PS-CA

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* There are no vocabulary differences between this profile and IPS-UV

**Other differences between the IPS and PS-CA Include:**

* Observation.code: IPS datatype profiling removed
* Observation.subject: reference target changed to PS-CA patient
* Observation.valueQuantity: IPS datatype profile replaced with PS-CA profile

## SHx Observation: Tobacco Use (PS-CA)

**Must Support Differences:**

* There are no direct "must support" differences between IPS-UV and PS-CA

**Cardinality Differences:**

* There are no cardinality differences between this profile and IPS-UV

**Vocabulary Differences:**

* There are no vocabulary differences between this profile and IPS-UV

**Other differences between the IPS and PS-CA Include:**

* Observation.code: IPS datatype profiling removed
* Observation.subject: reference target changed to PS-CA patient
* Observation.valueQuantity: IPS datatype profile replaced with PS-CA profile

# Data Type Profiles:

## PS-CA CodeableConcept

This profile makes a *significant change* from the IPS-UV data type profile **by removing the must support flag from the coding element**.

* While coding is not currently considered must support in Version 0.0.3, implementers that support codings should still send the codings for codeable concepts if they are available/appropriate and receivers should not produce failures or rejections if codings are included in the patient summary in the first release (a base tenet of FHIR).
* Additionally vendors should expect that some jurisdictions may further constrain support of this element within the context of their own jurisdictional content
* Implementors should also be aware that this constraint will be under consideration to be re-applied in PS-CA Version 2.0

PS-CA Coding

* This profile makes no changes to the cardinality or placement of must support flags from IPS-UV, but has carried those constraints over into a unique PS-CA data type profile to ensure that implementers have clarity and consistency in the expectations this guide puts forth when must support is claimed.