



# Optional Versus Mandatory CCI Attributes

The purpose of this Tip for Coders is to provide guidance for consistent data collection of Canadian Classification of Health Interventions (CCI) attributes. Data is reliable and valid for use only when it is captured consistently by all coders.

The CCI status, location and extent attributes are applied to CCI codes to provide more detail about the intervention. However, not all CCI codes require application of an attribute. Some attributes are

- Not activated at the rubric level — denoted by a grey attribute box;
- Activated as optional (unless specific circumstances apply) — denoted by a yellow attribute box;
- Activated as mandatory — denoted by a pink attribute box.

## Optional

Collection of a CCI attribute that has been designated in Folio as optional is a decision made at the jurisdiction or facility level.

## Mandatory

It is mandatory to apply the CCI attribute when the attribute box is pink. Per the Canadian Coding Standards, it is also mandatory to apply the CCI attribute, when activated at a rubric level, in the following specific circumstances, even when the attribute box is yellow:

- Apply status attribute **A — abandoned after onset** to the CCI code to denote when a planned intervention from Section 1 or Section 5 cannot be completed beyond incision, inspection, biopsy or anesthetization.  
**Note:** Assignment of the CCI code for the abandoned intervention is optional. When the CCI code for the abandoned intervention is mandated by a jurisdiction or facility, it is mandatory to apply status attribute **A**.
- Apply status attribute **C — converted** to denote the intervention was performed as an open approach when an intervention begins as an endoscopic approach but is changed (converted) to an open approach.
- Apply status attribute **R — revision** when an intervention is a complete or partial redo (revision) of an intervention performed previously for any problem, whether expected or unexpected.
- Apply location attribute **B — bilateral** to the single code from the appropriate rubric, when the same generic intervention is performed on bilateral anatomy sites and there is no variation in any component of the CCI code.
- Apply location attribute **L — left** or **R — right** to the separate codes (from the same rubric) when the same generic intervention is performed bilaterally and there is a variation in any component of the CCI code.





## Tip for Coders

See the following in CIHI's [Canadian Coding Standards for Version 2018 ICD-10-CA and CCI](#):

- General coding standards for CCI: *Multiple Codes in CCI, Abandoned Interventions, Converted Interventions and Revised Interventions*
- Appendix D — Mandatory attributes in CCI

## Apply the mandatory CCI attributes

Apply the mandatory CCI attributes. Leave the attribute blank when it is not mandatory.

Example	CCI code	Attribute		
		Status	Location	Extent
1. The patient is admitted for an endoscopic sigmoidectomy for colon cancer. The surgeon encountered adhesions so converted to an open approach to complete the excision. He closed with stoma formation and distal closure.	1.NM.87.TF			
2. The patient is admitted for an open fixation, with pin and nail, of a fractured left distal radius and ulna.	1.TV.74.LA-NV			
3. The patient has a consultation to request medical assistance in dying.	2.ZZ.02.PM			
4. The patient is admitted for a bilateral salpingo-oophorectomy for ovarian cancer. At laparotomy, it is discovered that the neoplasm is so extensive that removal is impossible. The surgeon closes the abdomen without attempting the excision.	2.OT.70.LA			

## Answers

### 1. Status — C, Location — SG

Rationale: Per coding standard direction, even though the status attribute box is yellow, the intervention began as an endoscopic approach and was converted to an open approach, making it mandatory to apply status attribute **C**. The location attribute box is pink and mandatory to apply.

### 2. No attributes applied

Rationale: The status and location attribute boxes are yellow and optional at rubric 1.TV.74.^^. None of the specific circumstances from the coding standards apply. Do not apply the attributes unless there is jurisdictional or facility-mandated direction.

### 3. Status — U

Rationale: The status attribute is pink and mandatory at rubric 2.ZZ.02.^^.

### 4. No attributes applied

Rationale: The CCI code (1.RD.89.LA) for the abandoned intervention is optional. Assign 1.RD.89.LA only when there is jurisdictional or facility-mandated direction and apply status attribute **A**, mandatory, even though the attribute box is yellow.