

DIABETIC KETOACIDOSIS PROTOCOL TOOLKIT

The *BCCH DKA Protocol Toolkit* contains the following documents:

- the *BCCH DKA Protocol Toolkit* cover document (2010/01/08 version)
- the *BCCH Diabetic Ketoacidosis Medical Protocol* (2008/09/21 version) **PLAIN PDF FORMAT***
- the *BCCH Diabetic Ketoacidosis Nursing Protocol* (2010/01/08 version)
- the *BCCH Diabetic Ketoacidosis Flowsheet* (2009/11/20 version)
- the *BCCH Diabetic Ketoacidosis Sample Physician Order Sheet* (2009/10/30 version)
- the *BCCH Pharmacy Recipes for Making DKA Solutions* (2008/09/21 version)

Each of these documents is also available individually for download from our website:

<http://endodiab.bcchildrens.ca/ForProfessionals/DKAProtocol.htm>.

*The BCCH DKA Medical Protocol can also be downloaded in **fillable PDF format** from our website:

<http://endodiab.bcchildrens.ca/pdf/dkaprtfill.htm>.

The BCCH DKA Protocol has been revised to conform to the International Society for Pediatric and Adolescent Diabetes's *Clinical Practice Consensus Guidelines 2009 Compendium*, the current gold-standard protocol for managing DKA in infants, children and adolescents. This protocol also conforms to the Canadian Diabetes Association's *2008 Clinical Practice Guidelines for the Prevention and Management of Diabetes in Canada*.

The major modifications from the previous version (dated 2006/11/03) of the protocol include:

- increased caution in the use of hypotonic fluids in the first 12-24 hours of DKA management
- increased attention to serum sodium levels and the appreciation of the coexistence of hypernatremic dehydration and DKA
- delay in the introduction of insulin infusions for the first 1-2 hours of DKA management
- formalization of the use of the "two-bag" system to facilitate physician and nursing management of IV fluids

The changes were introduced to reflect an increased understanding in the medical literature of factors leading to complications, particularly cerebral edema, which arise during the treatment of DKA in infants, children and adolescents.

We hope that you will find these materials to be helpful in managing pediatric cases of diabetic ketoacidosis. Please do not hesitate to contact the Endocrinology & Diabetes Unit at BCCH for any help in implementing this protocol at your health-care centre in British Columbia. We also welcome any suggestions to make this material more useful to your practice.