



Clinical Management Summary

EDcare : Handbook for Emergency Practice

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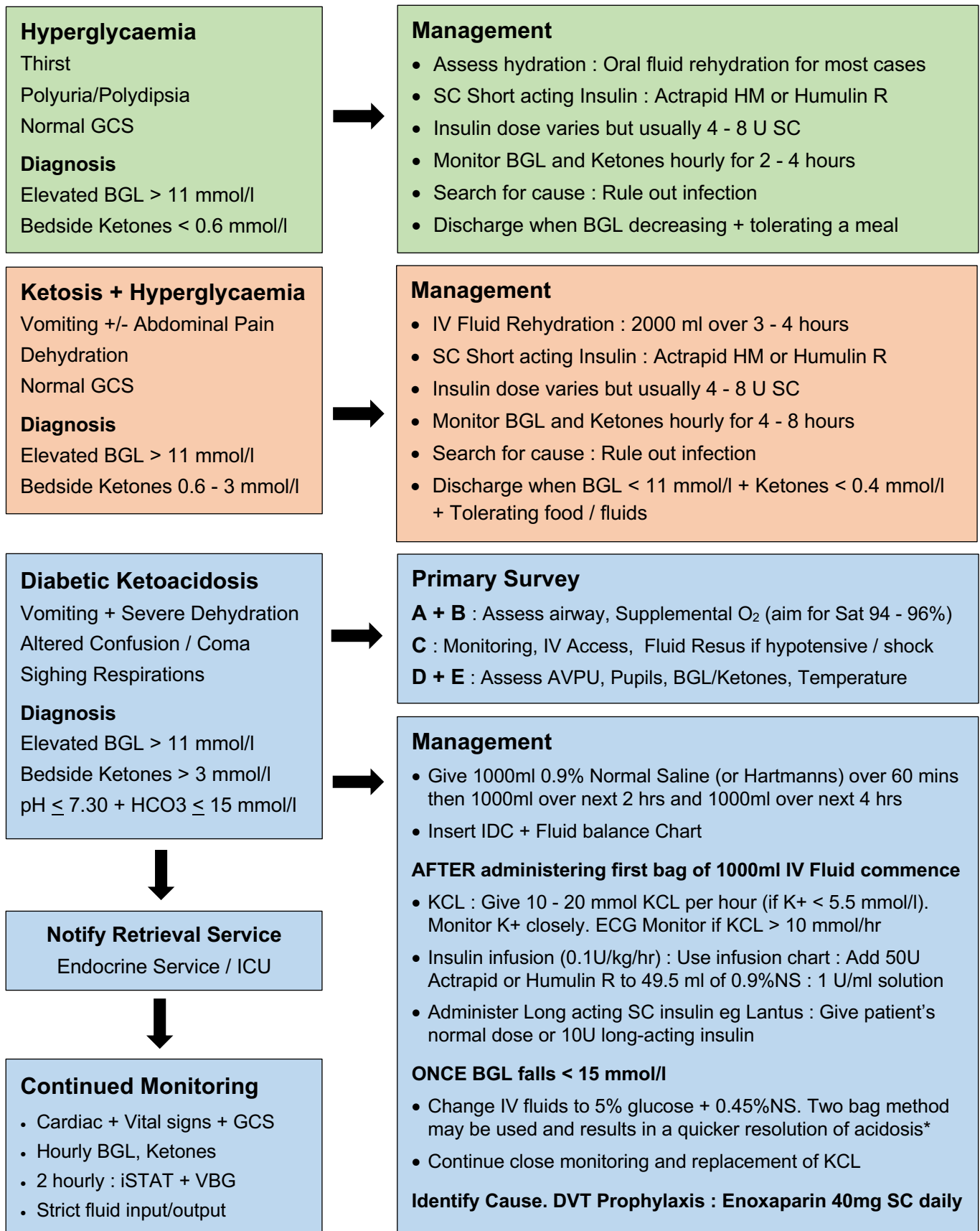
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Clinical Management Summary

Adult Diabetic Ketoacidosis & Hyperglycaemia



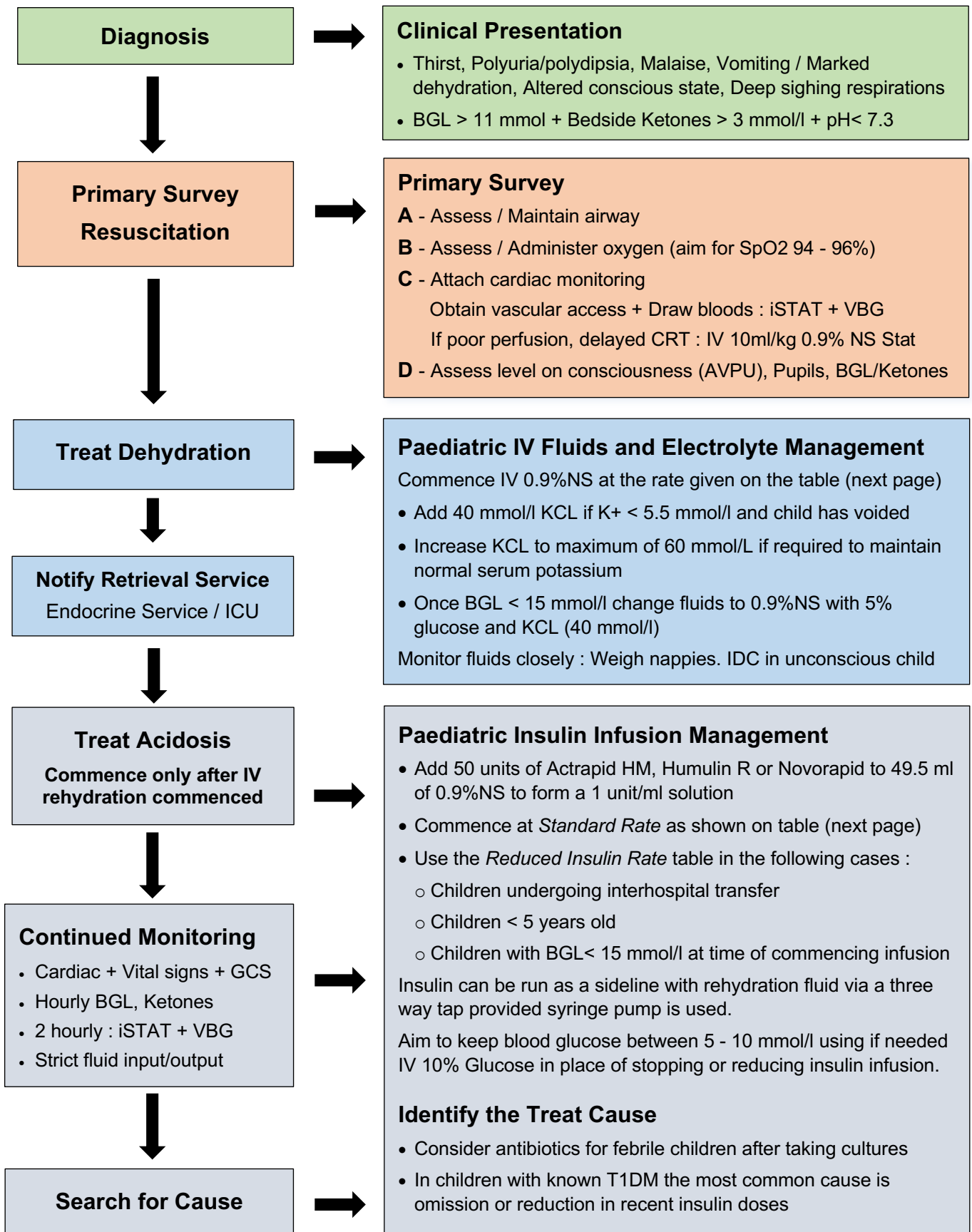
References :

1. Karslioglu et al. Diabetic ketoacidosis and hyperosmolar hyperglycemic syndrome: review of acute decompensated diabetes in adult patients. BMJ 2019;365:11114
2. Tran, Pease, Wood, Zajac et al. Review of the Evidence for Adult DKA Management Protocols : Frontiers in Endocrinology, June 2017, Volume 8. Article 106
3. Melbourne Royal Children's Hospital (Statewide) Guideline for Diabetic Ketoacidosis
4. Regional Local Health Networks Protocol (Clinical) : Diabetic Ketoacidosis Management in Adults with Type 1 Diabetes Mellitus, Dec 2019

*Two Bag Method : This method consists of two bags of 0.45% sodium chloride, one with and one without 10% dextrose, that are adjusted on the basis of hourly blood glucose monitoring to maintain an intravenous fluid rate of 250 mL/h.

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Diabetic Ketoacidosis in a Child



References :

1. Karslioglu et al. Diabetic ketoacidosis and hyperosmolar hyperglycemic syndrome: review of acute decompensated diabetes in adult patients. *BMJ* 2019;365:11114
2. Tran, Pease, Wood, Zajac et al. Review of the Evidence for Adult DKA Management Protocols : *Frontiers in Endocrinology*, June 2017, Volume 8. Article 106
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Paediatric Diabetic Ketoacidosis

Table showing IV Fluids and Insulin Infusion Rates by Weight

Intravenous Rehydration Recommended IV rate for starting rehydration				Insulin Infusion Commencing Infusion Rate	
Weight (kg)	Mild / Nil Dehydration mL/hour	Moderate Dehydration mL/hour	Severe Dehydration mL/hour	Standard 0.1unit/kg/hr	Reduced rate 0.05 unit/kg/hr
5	24	27	31	0.5	0.25
7	33	38	43	0.7	0.35
8	38	43	50	0.8	0.4
10	48	54	62	1	0.5
12	53	60	70	1.2	0.6
14	60	65	80	1.4	0.7
16	65	75	85	1.6	0.8
18	70	80	95	1.8	0.9
20	75	85	105	2	1
22	80	90	110	2.2	1.1
24	80	95	115	2.4	1.2
26	85	100	120	2.6	1.3
28	85	105	125	2.8	1.4
30	90	110	135	3	1.5
32	90	110	140	3.2	1.6
34	95	115	145	3.4	1.7
36	100	120	150	3.6	1.8
38	100	125	155	3.8	1.9
40	105	130	160	4	2
42	105	135	170	4.2	2.1
44	110	135	175	4.4	2.2
46	115	140	180	4.6	2.3
48	115	145	185	4.8	2.4
50	120	150	190	5	2.5
52	120	155	195	5.2	2.6
54	125	160	205	5.4	2.7
56	125	160	210	5.6	2.8
58	130	165	215	5.8	2.9
60	133	171	220	6	3
62	136	175	226	6.2	3.1
64	139	179	232	6.4	3.2
66	140	185	240	6.6	3.3
68	145	185	245	6.8	3.4
70	150	190	250	7	3.5

References :

1. Karlioglu et al. Diabetic ketoacidosis and hyperosmolar hyperglycemic syndrome: review of acute decompensated diabetes in adult patients. *BMJ* 2019;365:11114
2. Tran, Pease, Wood, Zajac et al. Review of the Evidence for Adult DKA Management Protocols : *Frontiers in Endocrinology*, June 2017, Volume 8. Article 106
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