# Appendices

## Appendix 1: Paper algorithm for use in intervention arm only

<table>
<thead>
<tr>
<th>Sensor Glucose mmol/l</th>
<th>Falling</th>
<th>Stable</th>
<th>Rising</th>
</tr>
</thead>
</table>
| **<2.6**              | Check Blood Glucose  
Stop any Insulin & Check all lines  
Give additional Dextrose  
Consider starting 20% Dextrose at 1ml/kg/hr | Check Blood Glucose  
Stop any Insulin & Check all lines  
Give additional Dextrose  
Consider starting 20% Dextrose at 1ml/kg/hr | Check Blood Glucose  
Review infusions & check lines  
Ensure Insulin is not running  
Consider starting/increasing 20% Dextrose at 1ml/kg/hr |
| **2.6-4.0**           | Check Blood Glucose  
Stop any Insulin & Check all lines  
Give additional Dextrose  
Consider starting 20% Dextrose at 1ml/kg/hr | Check Blood Glucose  
Stop any Insulin & Check all lines  
Give additional Dextrose  
Consider starting 20% Dextrose at 1ml/kg/hr | Observe the rate of rise  
Review infusions & check lines  
Ensure Insulin is not running  
Consider need for additional Dextrose |
| **IN TARGET**         | **IN TARGET**       | **IN TARGET**       | **IN TARGET**       |
| **Target Range 4.0 - 8.0** | If the rate of fall means you will be <4.0mmol/l within 1 hour consider reducing Insulin | Stop any additional 20% Dextrose  
or  
Start Insulin at 0.05 units/kg/hr  
or  
if Insulin is already running increase  
Insulin infusion rate by 50% | Stop any additional 20% Dextrose  
or  
Start Insulin at 0.05 units/kg/hr  
or  
if Insulin is already running increase  
Insulin infusion rate by 50% |
| **8.0-10.0**          | Observe the rate of fall  
Consider reducing Insulin infusion rate by 25% | Stop any additional 20% Dextrose  
or  
Start Insulin at 0.05 units/kg/hr  
or  
if Insulin is already running increase  
Insulin infusion rate by 50% | Stop any additional 20% Dextrose  
or  
Start Insulin at 0.05 units/kg/hr  
or  
if Insulin is already running increase  
Insulin infusion rate by 50% |
| **10-15.0**           | Observe the rate of fall  
Consider increasing Insulin infusion rate by 25% | Stop any additional 20% Dextrose  
or  
Start Insulin at 0.05 units/kg/hr  
or  
if Insulin is already running increase  
Insulin infusion rate by 50% | Stop any additional 20% Dextrose  
or  
Start Insulin at 0.05 units/kg/hr  
or  
if Insulin is already running increase  
Insulin infusion rate by 50% |
| **> 15**              | Observe the rate of fall  
Consider increasing Insulin infusion rate by 50% | Start Insulin at 0.05 units/kg/hr  
or  
consider increasing Insulin infusion rate by 50%  
(that is: Double)  
Always check infusion lines if there is little or no response to an intervention | Start Insulin at 0.05 units/kg/hr  
or  
consider increasing Insulin infusion rate by 100%  
(that is: Double)  
Always check infusion lines if there is little or no response to an intervention |

**CRITICAL CONCERN**

Please remember continuous glucose sensor readings are provided to support clinical management. They provide additional information on trends in glucose levels which should be used to guide the need for blood glucose measurement. Always check infusion lines if there is little or no response to an intervention.