Abbreviation:  
\( n \) = number of studies

MEDLINE (n=47) 
CINAHL (n=18) 
EMBASE (n=96) 
Cochrane library (n=51) 
JBI library (n=3) 
SIGLE (n=0) 
http://controlled-trials.com (n=24)

Potentially relevant articles identified 
(n= 239)

Clearly not meeting the inclusion criteria after screening for all titles and abstracts (n= 229):
1) did not receive protocol-directed 67
2) irrelevant comparison group 21
3) multiple publication from one study 64
4) Population mixed 28
5) paediatric population 26
6) Involved in DKA care 9
7) missing data 4
8) Target blood glucose higher 10

Hard copies of all potentially relevant articles retrieved:
1) through the above search (n=10) AND
2) sifting through reference lists (n=7) 
(total = 17)

Irrelevant articles excluded after detailed evaluation of full text. Due to:
1) Population mixed with other medical and surgical patients
2) Irrelevant comparison group, (i.e. computer-based algorithm)
3) Target blood glucose higher than 180mg/dL (10mmol/L) 
(n= 10)

Eligible studies included in systematic review  (n= 7)