Supplementary Online Content

Bali IA, Al-Jelaify MR, AlRuthia Y, et al. Estimated cost-effectiveness of subcutaneous insulin aspart in the management of mild diabetic ketoacidosis among children. JAMA Netw Open. 2022;5(9):e2230043. doi:10.1001/jamanetworkopen.2022.30043

eTable 1. Multiple Linear Regression of the Association Between the Use of SC Aspart vs IV Regular Insulin and the Length of Hospital Stay

eTable 2. Causes of Prolonged Length of Hospital Stay

eFigure 1. The Cost Breakdown per Patient Treated With IV Insulin Infusion and SC Aspart

eFigure 2. The Mean Hourly Glucose Changes During DKA Treatment

This supplementary material has been provided by the authors to give readers additional information about their work.
**eTable 1.** Multiple Linear Regression of the Association Between the Use of SC Aspart vs IV Regular Insulin and the Length of Hospital Stay

| Variable          | β-estimate | p-value | 95% Confidence Limits | Lower limit | Upper limit |
|-------------------|------------|---------|------------------------|-------------|-------------|
| SC insulin Aspart | -17.22     | 0.0265  | -32.41                 | -2.044      |             |
| Age               | -0.72      | 0.569   | -3.228                 | 1.782       |             |
| Female sex        | -13.55     | 0.084   | -28.96                 | 1.852       |             |
## eTable 2. Causes of Prolonged Length of Hospital Stay

| Variables                                      | Overall (n=129) | IV (n=59) | S.C (n=70) | Mean difference | P-value |
|------------------------------------------------|----------------|-----------|------------|----------------|---------|
| Education                                      | 54 (41.8)      | 26 (44.1) | 28 (40)    | NA             | .64     |
| Treatment of infection                        | 15 (11.6)      | 3 (5.1)   | 12 (17.1)  | NA             | .033    |
| Social reasons                                 | 4 (0.3)        | 2 (3.3)   | 2 (2.9)    | NA             | .86     |
| Weekend admission                              | 4 (0.3)        | 2 (3.3)   | 2 (2.9)    | NA             | .86     |
| insulin dose adjustment                       | 3 (0.2)        | 0(0)      | 3 (4.3)    | NA             | .1      |
| Other causes a                                 | 8 (0.6)        | 5 (8.5)   | 3(4.3)     | NA             | .33     |
| No. of diabetic education sessions in each admission, mean (SD) | 1.6 (1.6) | 1.9 (1.6) | 1.4 (1.6) | 0.4 | .12 |
| No. of dietitian education sessions in each admission, mean (SD) | 0.5 (0.6) | 0.6 (0.7) | 0.5 (0.6) | 0.1 | .32 |

a other causes: gastroenteritis, electrolyte imbalance, follow up of laboratory results

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**eFigure 1.** The Cost Breakdown per Patient Treated With IV Insulin Infusion and SC Aspart

- **IV regular Insulin Infusion**
  - Lab: $1,078.63
  - Medications: $67.62
  - Hospital stay: $502.66

- **SC Insulin Aspart**
  - Lab: $678.96
  - Medications: $43.22
  - Hospital stay: $349.81

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eFigure 2. The Mean Hourly Glucose Changes During DKA Treatment