

# Kajian Efektivitas Biaya Penggunaan Sediaan Parenteral Nutrisi D10-CaGluconas dan D5-1/4NS pada Pasien Respiratory Distress Syndrome (RDS) Neonatus dengan Berat Badan Normal Di RSUD Kambang Jambi = Cost Effectiveness Analysis on the Use of Parenteral Nutrition D10-CaGluconate and D5-1/4NS in Neonates Respiratory Distress Syndrome (RDS) Patients with Normal Weights in RSUD Kambang Jambi

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## Abstrak

Penelitian ini bertujuan untuk membandingkan efektivitas biaya penggunaan sediaan D10-CaGluconas dan D5-1/4NS. Disain penelitian adalah kohort retrospektif pada pasien neonatus penderita Respiratory Distress Syndrome (RDS) dengan berat badan normal di RSUD Kambang Jambi. Penelitian dilaksanakan pada kurun waktu September 2014-Juni 2015. Subyek penelitian terbagi dalam dua kelompok yaitu yang menggunakan D10-CaGluconas 40 pasien dan D5-1/4NS 43 pasien. Efektivitas dinilai dari perubahan hasil pemeriksaan fisik pasien yaitu rata - rata berat badan (28,48 gram/hari), kadar glukosa darah sewaktu (26,73 mg/dL), respiratory rate (-12,35 x/menit), frekuensi nadi (-10,98 x/menit), dan temperatur tubuh (0,013oC) pada sediaan D10-CaGluconas. Rata - rata efektivitas berat badan (23,49 gram/hari), kadar glukosa darah sewaktu (26,42 mg/dL), respiratory rate (-7,77 x/menit), frekuensi nadi (-8,07 x/menit), dan temperatur tubuh (0,012oC) pada sediaan D5-1/4NS. Rata - rata biaya langsung medis sediaan D10-CaGluconas adalah Rp. 458.290 dan D5-1/4NS adalah Rp. 408.347. Nilai ACER total biaya langsung medis sediaan D10-CaGluconas adalah Rp. 35.207.467, nilai ACER sediaan D5-1/4NS adalah Rp. 33.958.602. Nilai ICER biaya langsung medis sediaan D5-1/4NS terhadap sediaan D10-Ca.gluconas tiap efektivitas kenaikan berat badan adalah Rp. 10.009, kadar glukosa darah sewaktu adalah Rp. 161.107, respiratory rate adalah Rp. 10.905, frekuensi nadi adalah Rp. 17.163 dan temperatur tubuh adalah Rp. 49.943.000. Nilai rata - rata ICER total biaya langsung medis sediaan B terhadap sediaan A adalah Rp. 10.017.210. Sediaan parenteral nutrisi D10-CaGluconas lebih costeffective dibandingkan dengan sediaan D5-1/4NS.

.....This study aimed to compare the cost-effectiveness of the use of D10-CaGluconate and D5-1/4NS preparations. The design was a retrospective cohort study in neonatal Respiratory Distress Syndrome (RDS) patients with normal weights in RSUD Kambang Jambi. The research was conducted during the period September 2014 to June 2015. The research subjects were divided into two group, the use of D10-CaGluconate was 40 patients and D5-1/4NS was 43 patients . Effectiveness were seen from the changes of the patients physical examination results, on averages weights (28.48 grams/day), blood glucose levels (26.73 mg/dL), respiratory rates (-12.35 x/min), pulse rates (-10.98x/min), and the body temperature (0.013°C ) in D10-CaGluconate preparations. The average effectiveness of weight (23.49 grams/day), blood glucose levels (26.42 mg/dL), respiratory rates (-7.77 x/min ), pulse rates (-8.07 x/min), and the body temperatures (0.012°C) in D5-1/4NS preparations. The Average direct medical costs of D10- CaGluconate and D5-1/4NS were Rp. 458,290 and Rp. 408,347. The ACER values of total direct medical costs of D10-CaGluconate preparation were Rp. 35,207,467, while D5-1/4NS was Rp. 33,958,602. The ICER values of the direct medical costs of the D5-1/4NS preparations of D10-CaGluconas on each effectiveness of weights were Rp. 10,009, blood glucose levels were Rp. 161,107, respiratory rates were Rp. 10,905, pulse rates were

Rp. 17,163, and the body temperature was Rp. 49,943,000. The averages ICER values of the direct medical costs of the D5-1/4NS preparations of D10-CaGluconate were Rp. 10,017,210. The parenteral nutrition preparations of D10-CaGluconate are more cost-effective compared to the D5-1/4NS.