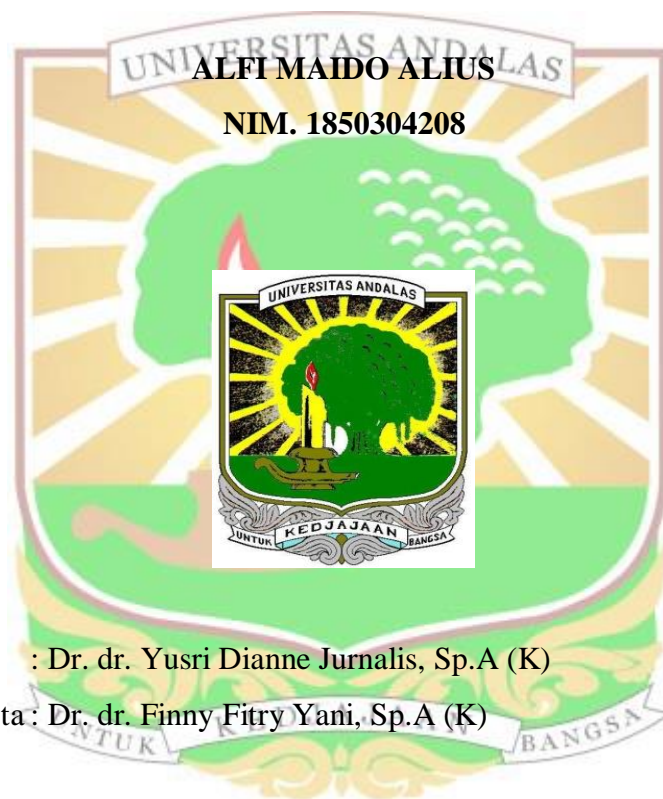


**PENGARUH PEMBERIAN KOLOSTRUM SUSU SAPI TERHADAP DURASI
DIARE AKUT DEHIDRASI RINGAN SEDANG DAN
KADAR SEKRETORI IMUNOGLOBULIN A PADA ANAK**

TESIS



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ABSTRAK
**PENGARUH PEMBERIAN KOLOSTRUM SUSU SAPI TERHADAP
DURASI DIARE AKUT DEHIDRASI RINGAN SEDANG DAN
KADAR SEKRETORI IMUNOGLOBULIN A PADA ANAK**

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Latar belakang. Kolostrum susu sapi atau *Bovine colostrum* (BC) mengandung berbagai *growth factor* dan *immune factor* yang bermanfaat untuk mencegah dan mengobati berbagai penyakit, termasuk penyakit di saluran pencernaan. *Bovine colostrum* mengandung sejumlah *secretory immunoglobulin A* (sIgA) dengan jumlah yang signifikan dapat menghalangi adhesi patogen ke membrane mukosa dan menghambat kolonisasi.

Tujuan. Mengetahui pengaruh pemberian kolostrum susu sapi terhadap durasi diare akut dehidrasi ringan sedang dan kadar sekretori IgA pada anak

Metode. Penelitian eksperimental yang dilaksanakan di Puskesmas dan Rumah Sakit di kota Padang. Penelitian dimulai dari bulan february tahun 2022 sampai November 2022. Data terkumpul 30 sampel masing-masing pada kelompok kontrol yang mendapatkan terapi standar WHO dan kelompok intervensi yang mendapatkan terapi standar who ditambah kolostrum susu sapi. Dilakukan pengamatan terhadap durasi diare akut serta pemeriksaan terhadap kadar sIgA.

Hasil. Terjadi pemendekan durasi diare pada kelompok intervensi dibandingkan kelompok kontrol yaitu 11,93 jam ($\pm 5,04$) dan perbedaan durasi diare tampak bermakna ($p\text{-value} = 0,021$). Terdapat perbedaan kadar sIgA yang signifikan antara sebelum dan sesudah pemberian kolostrum susu sapi pada kelompok intervensi ($p\text{-value} = 0,003$).

Kesimpulan. Pemberian kolostrum susu sapi dapat mempendek rerata durasi diare akut dan meningkatkan rerata kadar sIgA secara bermakna. Pemberian kolostrum susu sapi ini dapat disarankan sebagai terapi adjuvan dalam tatalaksana diare akut pada anak.

Kata kunci : Diare akut, dehidrasi ringan sedang, *bovine coostrum*, kadar sIgA, durasi diare.

ABSTRACT
**THE EFFECT OF BOVINE COLOSTRUM ON DURATION OF ACUTE DIARRHEA
WITH MILD-MODERATE DEHYDRATION AND SECRETORY
IMMUNOGLOBULIN A LEVELS IN CHILDREN**

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Background. Bovine colostrum (BC) contains various growth factors and immune factors, which are useful for preventing and treating various diseases, including gastrointestinal diseases. Significant amounts of secretory immunoglobulin A (sIgA) contained by bovine colostrum which can inhibit the adhesion of pathogens to the mucous membranes and inhibit colonization.

Aim. This study aims to determine the effect of bovine colostrum on duration of acute diarrhea with mild to moderate dehydration and levels of sIgA in children.

Method. Experimental research was conducted at public health centers and hospitals in Padang. The study was started from February 2022 to November 2022. Data were collected from 30 samples in the control group who received WHO standard therapy and the intervention group who received standard WHO therapy with bovine colostrum. This study observed the duration of acute diarrhea and levels of sIgA.

Results. The duration of acute diarrhea in the intervention group was shorter than the control group, 11.93 hours (± 5.04), and the difference was significantly (p -value = 0.021). There was a significant difference in sIgA levels before and after the administration of bovine colostrum in the intervention group (p -value = 0.003).

Conclusion. Administering bovine's colostrum can shorten the mean duration of acute diarrhea and increase the mean level of sIgA significantly. Administering bovine colostrum can be suggested as an adjuvant therapy in the management of acute diarrhea in children.

Keywords: Acute diarrhea, mild to moderate dehydration, bovine colostrum, sIgA levels, duration of diarrhea.

