

## GAMBARAN PRODUKSI KOMPONEN DARAH *PACK RED CELSS* (PRC) DI UDD PMI KABUPATEN BANYUMAS TAHUN 2020

Fatoni Yahya<sup>1</sup>, Yuli Astuti<sup>2</sup>, Budi Rahayu<sup>3</sup>

### INTISARI

**Latar Belakang:** Komponen darah PRC merupakan jenis komponen yang paling banyak diminta oleh pasien yang membutuhkan tranfusi. Tranfusi *Packed Red Cells* (PRC) bermanfaat untuk mempercepat kenaikan kadar hemoglobin pada penerima tranfusi. *Packed Red Cells* (PRC) banyak dipakai dalam penyembuhan anemia paling utama untuk: talasemia, leukemia, anemia aplastik dan akibat keganasan lainnya dan juga penyakit kronis yang menimpa ginjal serta hati, serta peradangan dan kekurangan endokrin.

**Tujuan Penelitian:** Untuk mengetahui gambaran produksi komponen darah *Packed Red Cells* (PRC) UDD PMI kabupaten Banyumas tahun 2020

**Metode Penelitian:** Desain penelitian deskriptif kuantitatif. Sampel penelitian sebanyak 63.576 sampel kantong darah. Teknik pengambilan sampel *total Sampling*. Analisis data secara univariat, mendeskripsikan setiap variabel dalam tabel distribusi frekuensi menggunakan rumus  $P=f/n \times 100\%$ .

**Hasil:** Hasil penelitian menunjukkan persediaan komponen darah PRC paling banyak frekuensinya berdasarkan golongan darah ABO adalah golongan darah O dengan jumlah total 24.511 kantong dengan prosentase 38,55 %, rata-rata per tersedian kantong darah sebanyak 2.043 kantong dengan prosentase 8,33 %.

**Kesimpulan:** Jumlah produksi komponen darah PRC tahun 2020 di UDD PMI Kabupaten Banyumas sebanyak 63.576 sampel.

**Kata Kunci:** komponen darah *Packed Red Cells*, Produksi.

---

<sup>1</sup>Mahasiswa TBD Universitas Jenderal Achmad Yani Yogyakarta

<sup>2</sup>Dosen TBD Universitas Jenderal Achmad Yani Yogyakarta

<sup>3</sup>Dosen Kebidanan Universitas Jenderal Achmad Yani Yogyakarta

## DESCRIPTION OF PRODUCTION OF PACK RED CELSS BLOOD COMPONENTS ((PRC) AT UDD PMI, BANYUMAS DISTRICT IN 2020

Fatoi Yahya<sup>1</sup>, Yuli Astuti<sup>2</sup>, Budi Rahayu<sup>3</sup>

### ABSTRACT

**Background:** PRC blood components are the type of components that are most requested by patients who need transfusions. Packed Red Cells (PRC) transfusion is useful for accelerating the increase in hemoglobin levels in transfusion recipients. Packed Red Cells (PRC) are widely used in the treatment of anemia, especially for: thalassemia, leukemia, aplastic anemia and other malignancies as well as chronic diseases affecting the kidneys and liver, as well as inflammation and endocrine deficiency.

**Objectives:** To determine the description of the production of blood components Packed Red Cells (PRC) UDD PMI Banyumas Regency in 2020.

**Methods:** Descriptive quantitative research design. The research sample was 63.576 samples of blood bags. total sampling technique Sampling. Data analysis was univariate, describing each variable in the frequency distribution table using the formula  $P=f/n \times 100\%$ .

**Result:** Showed that the supply of PRC blood components with the highest frequency based on ABO blood type was blood type O with a total of 24,511 bags with a percentage of 38.55%, an average of 2,043 bags per available blood bag with a percentage of 8.33%.

**Conclusion:** Total production of PRC blood components in 2020 at UDD PMI Banyumas Regency was 63.576 samples.

**Keywords:** blood components Packed Red Cells, Production.

---

<sup>1</sup>Student of Blood Bank Technology at Jenderal Achmad Yani University, Yogyakarta

<sup>2</sup>Lecturer of Blood Bank Technology at Jenderal Achmad Yani University, Yogyakarta

<sup>3</sup>Lecturer of Midwifery at Jenderal Achmad Yani University, Yogyakarta