Frequently Asked Questions

CERVOS MEDICAL

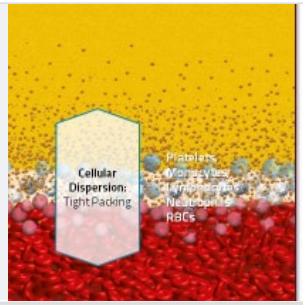
ASPIRE

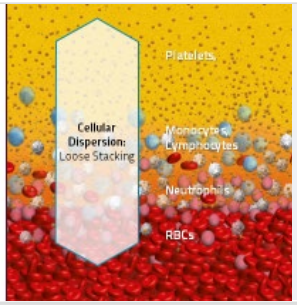
- Q1: Is CERVOS PRP a Single or Double Process System and What is the Difference?
- Q2: Is CERVOS PRP Leukocyte Rich or Poor?
- Q3: What is the Role of Agranulocytes and Granulocytes?
- Q4: What is a 'Buffy Coat'?
- Q5: What Blood Volume is Required for the CERVOS PRP System and how much PRP is Obtained?
- Q6: What is meant by Platelet Recovery and How Many Times Native Platelet Count can be expected with CERVOS PRP?
- Q7: How do I make 'Double Process' PRP with CERVOS PRP Kit?
- Q8: How do I make 'Single Process' PRP with CERVOS PRP Kit?
- Q9: Is Anticoagulant Important?
- Q10: Is the CERVOS PRP System a 'Closed' or 'Open' System?

Frequently Asked Questions

Q1: Is CERVOS PRP a Single or Double Process System and What is the Difference?

The CERVOS PRP System can produce PRP in either a Single or Double Spin Process.
A 'Single Spin' Process creates a 'Buffy Coat' Layer between the RBC and Plasma Layers.
A 'Double Spin' Process creates a 'Buffy Coat' during the Second Spin. The First Spin of the Double Process keeps all Platelets Suspended in Plasma preventing Aggregation (Clumping)





Q4: What is a 'Buffy Coat'?

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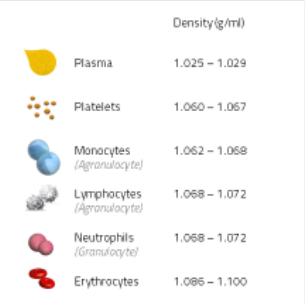
Q2: Is CERVOS PRP Leukocyte Rich or Poor?

The CERVOS PRP is considered a Leukocyte Rich PRP System. However, it is critical to understand the various Leukocytes / White Blood Cells (WBCs) involved. CERVOS PRP is rich in Agranulocytes and Poor in Granulocytes. CERVOS PRP can be customized to produce a Leukocyte Poor or Rich PRP depending on the physician's desire.



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Q3: What is the Role of Agranulocytes and Granulocytes?

Lighter Agranulocytes (Monocytes, Lymphocytes) are Phagocytic (Engulf and Destroy) Pathogens.
They fight Infection and provide an important Anti-Microbial Protection.
Heavier Granulocytes (Basophils and Eosinophils) are Chemotactic (attract) other cells to migrate to sites of Inflammation and Infection, potentially making the situation worse.
CERVOS PRP is Agranulocyte Rich and Granulocyte Poor!

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Q4: What is a 'Buffy Coat'?

The visible packed Platelet/White Blood Cell Layer after centrifugation.
Buffy Coat PRP Systems utilize different preparation protocols producing varying compositions of Monocyte, Lymphocyte and Neutrophil ratios. Leukocytes greatly influence the intrinsic biology of acute and chronic tissue conditions because of their immune and host-defense mechanisms. The presence of specific leukocytes in PRP can cause significant cellular and tissue effects.
Eosinophils and Basophils are typically not measurable in PRP formulations as their cell membrane is too fragile to withstand centrifugal force.

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Each CERVOS PRP Kit can process as little as 10mL up to 40mL Anticoagulated Blood.
There are markings on each CERVOS PRP Kit indicating the possibility to produce an end volume between 2mL, 5mL, and 10mL
CERVOS PRP Kits are available in Single, Double or Triple Packs.

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Q6: What is meant by Platelet Recovery and How Many Times Native Platelet Count can be expected with CERVOS PRP?

Platelet Recovery is the Total Number of Platelets multiplied by the Total Blood Volume. Divided by the Total Number of Platelets in the Final PRP multiplied by the PRP Volume,

$$\frac{\text{Volume of PRP (ml)} \times \text{platelet concentration of PRP } (10^9/l)}{\text{Volume of the whole blood (ml)} \times \text{platelet concentration of the whole blood } (10^9/l)}$$

X Factor: Over Native Level

Formula	Samples	Amount *(A)*	Volume mL *(B)*	Amount *(C)*	Volume mL *(D)*	*(C*D)/(A*B)*	Factor X *(C/A)*
CERVOS PRP 60	60	205	60	1226	7,8	78%	6X

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Q7: How do I make 'Double Process' PRP with CERVOS PRP Kit?

1.) Fill CEVOS PRP Kit with Anticoagulated Blood to Desired Volume i.e. 30mL.
2.) Process: 1900g for 2 Min
3.) Decant Cloudy Plasma to 2nd CERVOS Kit
4.) Process: 1900g for 6 Min.
5.) Draw Off Excess Plasma, Draw off Residual PRP

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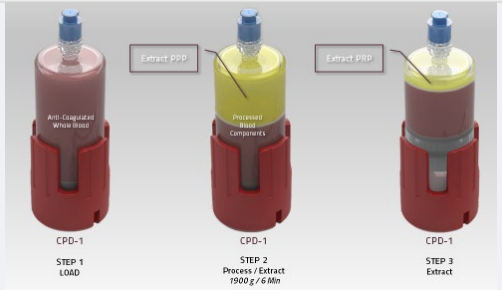

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Q9: Is Anticoagulant Important?

Yes, Anticoagulant is important to prevent Platelet Aggregation (Clumping).
Typically, ACD-A or Citrate Dextrose Solution (3-4)% is used in 10% Ratio i.e. 3mL Anticoagulant for 30mL Blood

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The CERVOS PRP System is 100% Closed System.
Implements Sterile One-Way Locking Valves.
Needleless Operation.
No Venting Ports Required.