

C.S.T.S GOVERNMENT KALASALA, JANGAREDDIGUDEM

ELURU DISTRICT



DEPARTMENT OF ZOOLOGY

Best practice

Blood Grouping

ON

22-08-2022

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Enter to Learn - Leave to Serve

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Best Practice

1. Title: Blood grouping

2. Objective :

The objective of blood grouping as a best practice is to determine a person's blood type accurately. This information is crucial for various medical procedures, including transfusions, organ transplants, and pregnancy-related care. It helps ensure compatibility between donors and recipients, minimizing the risk of adverse reactions and improving patient safety during medical interventions involving blood. Additionally, blood grouping aids in forensic investigations and can be vital in emergencies when immediate blood transfusion is required. Overall, accurate blood typing is fundamental for providing effective and safe healthcare.

3. Challenges :

Accuracy and Reliability: Ensuring that blood typing tests are accurate and reliable is paramount. False results can lead to severe medical complications, so quality control and validation of testing methods are crucial.

Availability of Reagents and Supplies: Ensuring a steady supply of reagents and testing supplies, especially in remote or resource-limited areas, can be challenging and requires logistical planning.

Blood Type Discrepancies: Occasionally, individuals may have rare or complex blood types that can be challenging to identify. Laboratories must be prepared to handle these situations and consult experts if needed.

4. The Practice

Blood grouping is a fundamental aspect of personal health management and emergency preparedness. By implementing these best practices in degree colleges, students can be educated about the importance of knowing their blood types, which contributes to a safer and more resilient campus community. These practices also foster a culture of voluntary blood donation and responsible healthcare, ultimately benefiting both individual well-being and the greater society.

5. Evidence of Success

Blood grouping's success is evident in its ability to save lives through safe transfusions, meeting benchmarks for reduced transfusion-related complications. Reviews indicate improved patient outcomes, reduced transfusion reactions, and enhanced compatibility. These results underscore the effectiveness of blood grouping as a best practice in healthcare.

6. Problems Encountered and Resources Required

Implementing blood grouping as a practice would require trained personnel, blood typing reagents, testing equipment, and a safe environment. Problems may include inadequate funding, a shortage of skilled technicians, and ensuring the safety and integrity of blood samples.

7. Notes:

For successful adoption, institutions should invest in quality training, modern testing equipment, and rigorous quality control measures. Collaboration with blood banks and ongoing education is vital to ensure safe and effective implementation of blood grouping as a best practice.

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Blood grouping

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As a part of Best Practice, the department of Zoology gave training and encouraged the II BZC students to do blood grouping to B.Sc. students of CSTS Govt. Kalasala, Jangareddigudem. The students done blood grouping to nearly 30 students. This programme is conducted under supervision of Smt.R. Vijayadeepika, Lec.in Zoology& CH. Venkata Lakshmi, Lecturer in Zoology, with the permission of Principal Dr.N. Prasad Babu, CSTS Government kalasala, jangareddigudem.





Sl. No	Name of the students	Blood group identified	Sign. of students
1	M. Pavani	A ⁺	M. Pavani
2	P. Anusha	A ⁺	P. Anusha
3	M. Rana Lakshmi	A ⁺	M. Rana Lakshmi
4	Ch. Nandini	AB ⁺	Ch. Nandini
5	G. Ramana Reddy	A ⁺	G. Ramana Reddy
6	V. Navya	B ⁺	V. Navya
7	Ch. Sasikala	B ⁺	Ch. Sasikala
8	G. Uma	AB ⁻	Uma
9	Sonali	B ⁻	Sonali
10	T. Prathab	O ⁺	T. Prathab
11	M. Sundeeep	A ⁺	M. Sundeeep

M. Ashok Kumar	O ⁺	M. Ashok Kumar
M. Hari Krishna	AB ⁺	m. Hanikrushna
K. Sravani	AB ⁺	K. Sravani.
G. Uma	AB ⁺	G. Uma
Sonal	A ⁻	Sonal
S. Mani	B ⁺	S. Mani

Conclusion:

Blood grouping as a Best Practice is a good practice and students has learned very well and found highest AB group people