

## 4th Annual Conference on **STEM CELL AND REGENERATIVE MEDICINE**

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### **ISOLATION AND TOXINOTYPING OF CLOSTRIDIUM PERFRINGENS FROM SHEEP.**

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Enterotoxaemia is a disease caused by *Clostridium perfringens* which is an opportunistic pathogen, found in intestine of ruminants and human beings. Its different toxinotypes including A, B, D and E are prevalent in Pakistan. Present study was conducted to isolate indigenous toxinotypes of *C. perfringens* from sheep. Sample collection was done from slaughter houses in Lahore, and farms of Layyah. A total of (n=125) samples of rectal swabs and intestinal content of sheep were screened using selective perfringens agar and 23 isolates of *C. perfringens* were isolated. The isolates were subjected to polymerase chain reaction for toxinotyping using reported primers for alpha (324 bp), beta (195bp), and epsilon (375bp) toxin genes. Three toxinotypes including type A (9%), B (7%) and D (7%) were confirmed from the isolates. A total of 21% were found positive in farms of Layyah and 2% in slaughter houses of Lahore. It was concluded that there were three toxinotypes prevalent in sheep in study area.

#### **Biography**

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