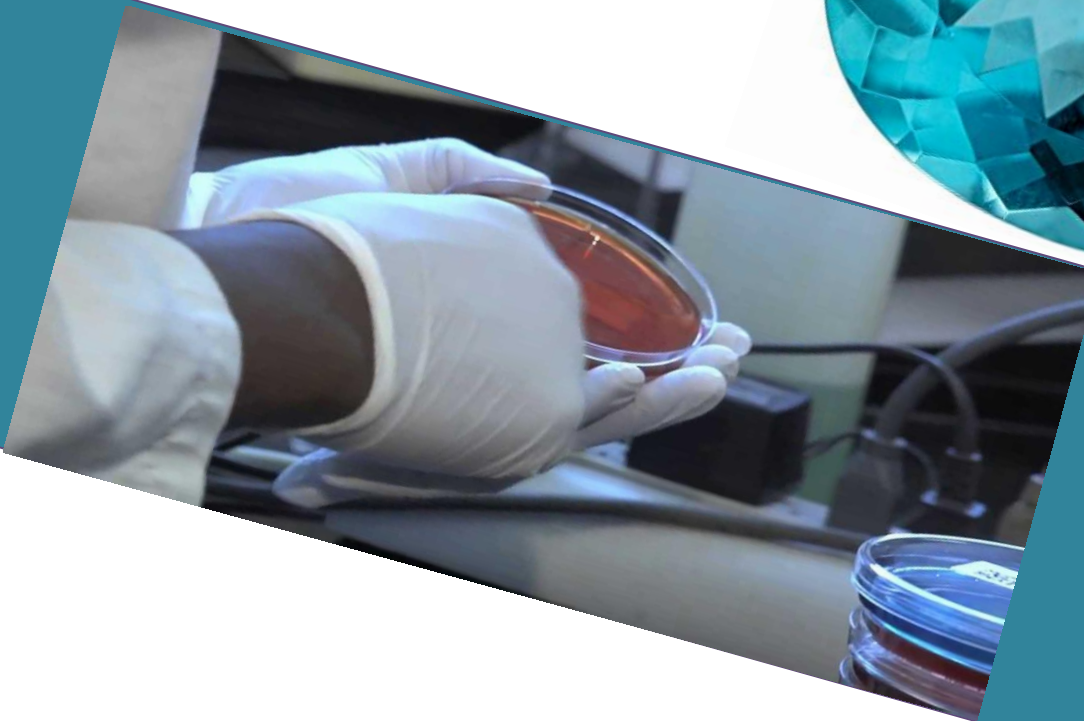


**Poultry Disease
Diagnosis and District Disease Diagnosis
Laboratories in Punjab**



Disease Surveillance

Disease Surveillance is an important component of activities of Disease Diagnostic Section, PRI Rawalpindi. Eight Poultry Disease Diagnostic Laboratories under the Directorate of Poultry Research Institute, Rawalpindi and 36 District Disease Diagnostic Laboratories work as surveillance units to this section. A Brief account of samples process for high path Avian Influenza, Velogenic Newcastle Disease and suspected Swine Flue (H1N1) is given as under:-

Year	Serum	Swab	Tissue	Total
2012-13	25118	27074	4363	56555
2013-14	21971	16203	3850	42024
2014-15	12830	4343	1184	18357
2015-16	41955	14387	1728	58070
2016-17	44177	6477	2541	53195
Total:	146051	68484	13666	228201

- Total No. of H5N1 isolated = Zero (2012-17)
- Total No. of H7N3 isolated = Zero
- Total No. of H9N2 isolated = 599

POULTRY HEALTH SITUATION IN PAKISTAN FOR HIGHLY PATHOGENIC AVIAN INFLUENZA



CONTROL OF VELOGENIC NEWCASTLE DISEASE

Year	Serum Samples	Swab Samples	Tissue Samples	Total
2012-13	25118	27074	4363	56555
2013-14	21971	16203	3850	42024
2014-15	12830	4343	1184	18357
2015-16	13971	3191	973	18135
2016-17	44177	6477	2541	53195
Total:	118067	57288	12911	188266

- Total No. of ND Virus isolated = 511
- Identification on basis of ICPI, IVPI, MDT, PCR and sequencing
- Conducted biological trials to evolve effective vaccination schedule
- Epidemiological survey, Arranged consultative meeting and workshops to develop control strategy

Surveillance Suspected Swine Flue (H1N1)

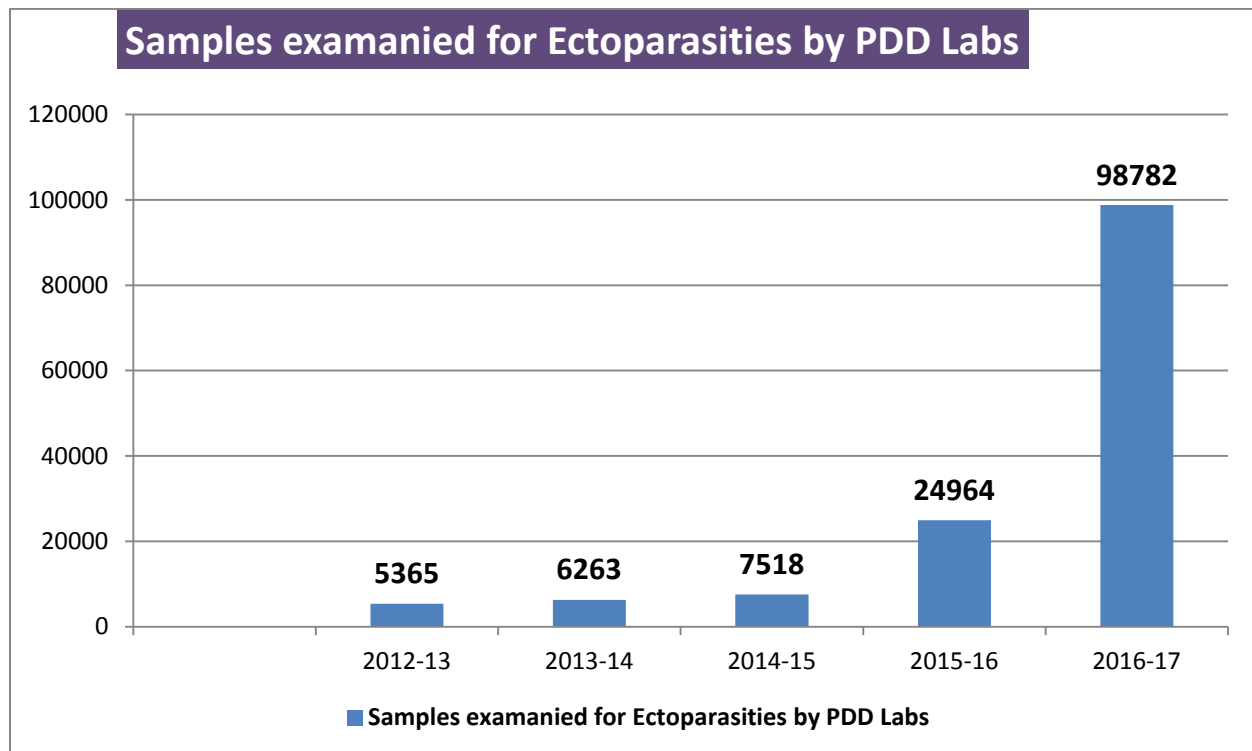
Month	Serum Samples	Tracheal, cloacal & environment swab samples	Total
Dec. 2015	1419	3590	5009
Jan. 2016	2075	7710	9785
Feb. 2016	10230	10930	21160
Mar. 2016	9746	8842	18588
Apr. 2016	4700	6410	11110
May. 2016	2110	2920	5030
Total:	30280	40402	70682

- Total No. of AI Virus isolated = 00
- Identification on basis of HA, HI, ELISA & PCR
- Epidemiological survey
- Multi-sectoral collaborative approach

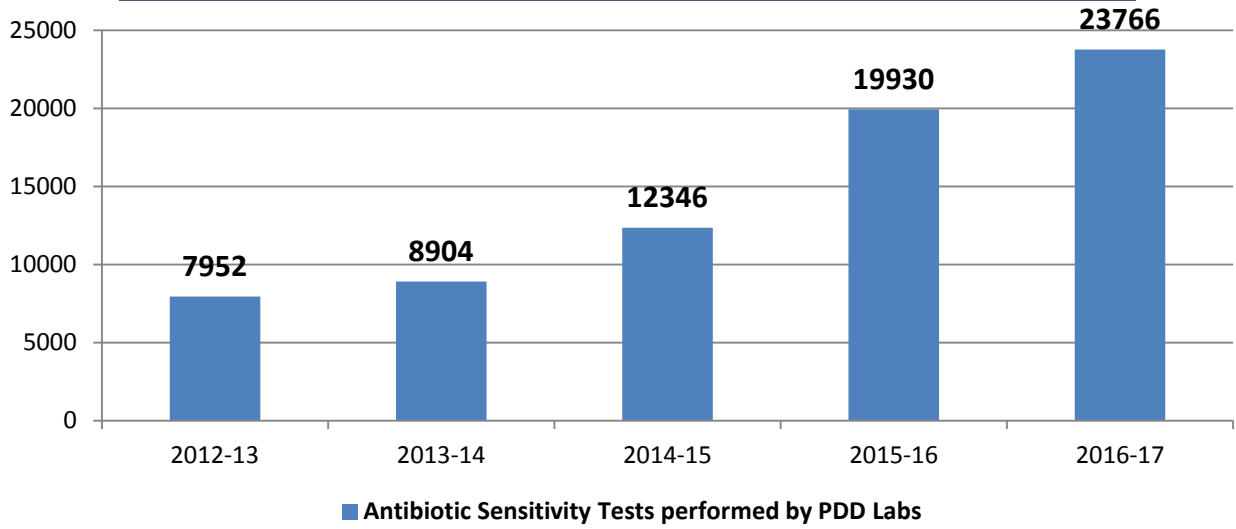
District Poultry Disease Diagnostic Laboratories

There are eight Poultry Disease Diagnostic Laboratories, Samanduri, Ghakkar, Kamalia, Arifwala, Gujjar Khan, Bahawalnagar, Jehlum and Jhang. All these Laboratories have basic facilities required for poultry disease diagnosis. They also send Surveillance samples to provincial reference laboratory for confirmation. The prominent responsibilities of these laboratories include:-

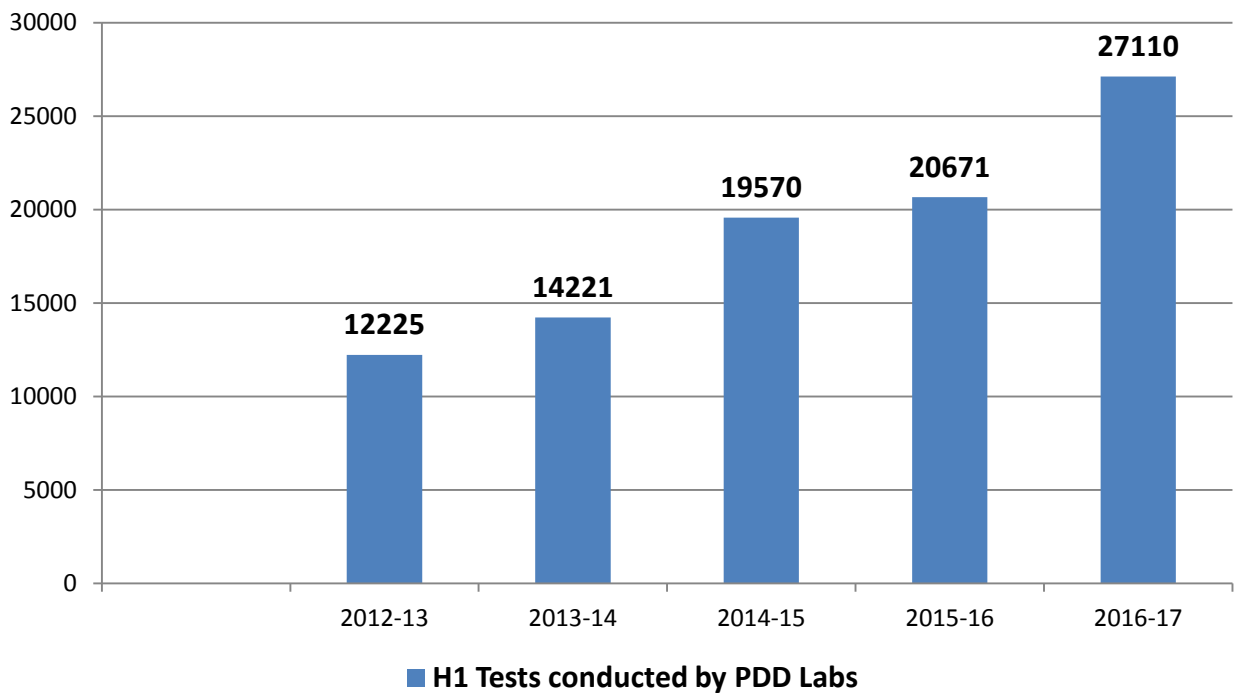
- 🌾 Outpatient Treatment
- 🌾 Postmortem of dead birds
- 🌾 HA/HI against ND
- 🌾 HA/HI against Avian Influenza
- 🌾 To attend and handle disease outbreaks
- 🌾 Registration of Rural Poultry Farmers
- 🌾 Geo tagging of rural poultry Farms
- 🌾 Distribution and monitoring of rural poultry vaccination
- 🌾 To conduct Surveys
- 🌾 Collection of poultry samples for disease surveillance
- 🌾 Training of Veterinarians / para Veterinarian
- 🌾 Training of Farmers
- 🌾 To participate in school focus programme



Antibiotic Sensitivity Tests performed by PDD Labs



H1 Tests conducted by PDD Labs



Postmortems performed by PDD Labs

