

Foreword

It is my pleasure to publish this Annual Epidemiological Bulletin of our Laboratory for the Fiscal year 2077/078. This bulletin is the outcome of compilation of all the monthly epidemiological reports of 16 districts in this region which contains the animal diseases status in this region during the period of Shawan 2077 to Ashad 2078.

Early detection and accurate diagnosis of animal diseases is very important in disease control and eradication program. This has significant impact on production of quality and safe food of livestock origin as well as protection from zoonosis. Nepal being a member country of WTO has to implement SPS measures. Laboratory based early and accurate diagnosis is the fundamental preliminary requirement for the implementation of SPS measures in global trade of livestock and livestock products. Therefore there is very important role of veterinary diagnostic laboratory in the country.

During the period, Peste des petits ruminant (PPR) was recorded to be the major Transboundary animal disease (TADs) in small ruminants of this region. Similarly, Lumpy Skin and Foot and Mouth disease (FMD) continued to be one of the major TADs of large ruminants. Fascioliasis, parasitic gastroenteritis and external parasites were the major parasitic diseases in large and small ruminants. In poultry there was two outbreak of Highly Pathogenic Avian Influenza (HPAI) in this period. Infectious Bursal disease, Mycoplasmosis, Newcastle disease, Mycotoxicosis and Coccidiosis were the major diseases of the chicken population.

I would like to express my sincere thanks to all the staffs of Veterinary Hospital and Livestock Expert/Service Center, Municipalities of Livestock Service center, Rural Municipality of Livestock Service Center and the field technicians who contribute their efforts in reporting. I would like to thank Dr. Jitendra Shrestha, Devi Ram Kandel and all the staffs of Veterinary Laboratory, Surkhet for their hard work to publish the bulletin in this form.

I am looking forward for your valuable comment and suggestion in order to improve the quality of this bulletin in the future too.

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1. Introduction

Veterinary Disease Investigation Laboratory, Surkhet of the Karnali Province is situated in Birendranagar Municipality-7, Surkhet and was established in FY 1988/1989 AD. It provides laboratory diagnostic services to 10 districts of Karnali Province and 6 districts of Lumbini Province all together 16 districts. To provide the diagnostic livestock services smoothly, three districts (Banke, Dang and Jumla) have established basic laboratories. They perform parasitological examinations, microbiological culture and antibiotic sensitivity test.

The mission of the VDIL, Surkhet is to promote the health of livestock, poultry and ensure safe animal products for consumer by assisting VH and LSEC's offices, veterinarians, clients, and others who are responsible for animal health in detection and prevention of animal diseases.

2. Objectives

- To provide animal disease laboratory diagnostic services to the farmers of the province.
- To investigate the animal disease epidemics in the province.
- To support Veterinary Hospital and Livestock Service Expert Center and Local Governance in disease diagnosis and epidemic control.
- To investigate important livestock diseases in the province & assist to formulate disease control measures.
- To monitor and report the incidence and threat of animal disease as well as zoonotic disease
- To supervise diagnostic service at Veterinary Hospital and Livestock Service Expert Center's and local governance of the province and onsite coaching.
- To conduct and support the laboratory and animal health related training activities/programs for the veterinary paraprofessionals in the region.
- To assist in the national disease control and eradication programs in the province.

3. Progress Report of Fiscal Year 2077/078

The annual program and the summary of the progress report are presented in the following table.

Table 1: Annual work program and summary of achievements (FY 2077/078)

SN	Program of Fiscal Year 2077/2078	Unit	Annual		Progress %
			Target	Progress	
1	भेडा बारग्रामा परजिवि सर्भिलेन्स तथा अन्वेषण गर्ने	पटक	2	2	100
2	भेडामा ब्लुटङ्ग रोग अन्वेषण गर्ने	पटक	1	1	100
3	दुधालु गाई तथा भैसीमा सव क्लिनिकल मस्टाईटिस अन्वेषण गर्ने	पटक	2	2	100
4	दुध र मासुमा भेटेरिनरि ड्रग रेसिड्यु अन्वेषण गर्ने	पटक	2	2	100
5	माछाको रोग सर्भिलेन्स तथा अन्वेषण गर्ने	पटक	2	2	100
6	प्रादेशिक स्तरको रोग अन्वेषण टोलि ब्यवस्थापन	पटक	3	3	100
7	एभियन ईन्फ्लुन्जा रोग सर्भिलेन्स र परिक्षण गर्ने	संख्या	150	515	100
8	रानीखेत रोग परिक्षण	संख्या	150	496	100
9	पशुहरुमा रेविज परिक्षण	संख्या	15	16	100
10	पन्छीहरुमा साल्मोनेला परिक्षण	संख्या	150	349	100
11	राष्ट्रिय पि पि आर रोग नियन्त्रण कार्यक्रम अन्तर्गत सिरामोनिटरिङ्गका लागि नमूना संकलन तथा परिक्षण	संख्या	2000	1344	67.2
12	राष्ट्रिय खोरेत रोग नियन्त्रण कार्यक्रम अन्तर्गत सिरामोनिटरिङ्गका लागि नमूना संकलन तथा परिक्षण	संख्या	300	150	50
13	राष्ट्रिय स्वाइन फिवर रोग नियन्त्रण कार्यक्रम अन्तर्गत सिरामोनिटरिङ्गका लागि नमूना संकलन तथा परिक्षण	पटक	150	28	18.66
14	राष्ट्रिय रानिखेत रोग नियन्त्रण कार्यक्रम अन्तर्गत सिरामोनिटरिङ्गका लागि नमूना संकलन तथा परिक्षण	पटक	150	226	100
15	प्रदेश र स्थानिय तहका प्रयोगशालाहरुको स्तरउन्नतिका लागि प्रविधि हस्तान्तरण कार्यक्रम	पटक	3	3	100
16	गोवर परिक्षण गर्दा बिभिन्न परजिबीका अन्डाहरु पहिचान गर्ने फ्लेक्स प्रकाशन तथा प्रदेश र स्थानीय तहहरुका प्रयोगशालाहरुमा बितरण	पटक	1	1	100

17	वार्षिक प्राविधिक पुस्तिका प्रकाशन	पटक	1	1	100
18	वार्षिक प्राविधिक पुस्तिकाका लागि सामग्री तयार गरी पठाउने	पटक	1	1	100
19	प्रादेशिकस्तर रेविज पि पि आर तथा खोरेत भ्याक्सिन बैंक व्यवस्थापन कार्यक्रम	पटक	12	12	100
20	परजिविको ई पि जि गणना	संख्या	300	737	100
21	स्किन स्क्रापिङ्ग परिक्षण	संख्या	30	54	100
22	ब्लोड प्रोटोजोआ पहिचान	संख्या	120	360	100
23	पिसाव परिक्षण	संख्या	30	52	100
24	हेमाटोलोजिकल परिक्षण	संख्या	150	360	100
25	शव परिक्षण	संख्या	750	969	100
26	जिवाणु कल्चर पहिचान तथा एन्टीबायोटिक सेन्सेटिभिटि परिक्षण	संख्या	210	279	100
27	ढुसीको कल्चर तथा पहिचान	संख्या	30	36	100
28	सि एम टी बिधीबाट थुनेलो रोग परिक्षण	संख्या	120	390	100
29	पंक्षीमा माइकोप्लाज्मा परिक्षण	संख्या	150	349	100
30	पन्छीहरुमा गम्बारो/आइ बि रोग परिक्षण	संख्या	90	217	100
31	पिपिआर रोग निदान (पेनसाईड वा रेपिड परिक्षण)	संख्या	100	210	100
32	कुकुरहरुको नमुना परिक्षण (डिस्टेम्पर पार्थो कोरोना)	संख्या	30	106	100
33	रानीखेत / एभियन ईन्फ्लुएन्जा सेरोलोजीकल परिक्षण	संख्या	100	529	100
34	गाइ भैसी, भेडाबाखामा खोरेत रोगको एन एस पि इलाइजा बिधीबाट परीक्षण	संख्या	300	300	100
35	पशुपन्छीका विभिन्न रोगहरुको इलाइजा बिधीबाट परीक्षण	संख्या	600	1866	100
36	पशुपन्छीका विभिन्न रोगहरुका नमूना थप परिक्षणको लागि केन्द्रीय प्रयोगशालाहरुमा पठाउने	संख्या	90	169	100

37	पशुपन्डीहरुको रोग सर्भिलेन्स तथा अन्वेषणका लागि औषधि खरिद	पटक	2	2	100
38	पशुपन्डीहरुमा फैलिने माहामारी रोग र आकस्मिक रोग नियन्त्रणका लागि औषधि खरिद	पटक	2	2	100
39	राष्ट्रिय पि.पि.आर खोरेत स्वाइन फिबर तथा रानीखेत रोग नियन्त्रण कार्यक्रम अन्तर्गत सिरोमनिटरिगको लागि नमूना संकलन तथा परिक्षण कार्यक्रमका लागि औषधि खरिद	पटक	2	2	100

4. Laboratory Services

4.1 Parasitological examination

Parasitological unit examines fecal samples of various species using different methods as direct smear, sedimentation, and floatation methods. Parasitological unit not only identify the parasites but also quantify the parasitic burden of the nematode, trematode and cestode by Mc-Master method. In this fiscal year 2077/078, total 923 faecal samples were examined and 364 were found positive for various internal parasites. Among them Fasciola, Coccidia, Haemonchus, Strongylus, Paramphistomum, Trichuris, were found major internal parasites identified. Result of faecal examination is presented in table and figure below.

Table 2: Fecal examination result different animal conducted at VL, Surkhet (FY 2077/078)

Parasites	2077/078	Percentage
<i>Fasciola</i>	132	17.91
<i>Paramphistomum</i>	42	5.70
<i>Ascaris</i>	41	5.56
<i>Trichuris</i>	63	8.55
<i>Strongylus</i>	32	4.34
<i>Monezia</i>	30	4.07
<i>Toxocara</i>	21	2.85
<i>Haemonchus</i>	80	10.85
Negative	296	40.16
Total	737	100

Figure 1. Parasitic species isolated from faecal examination.

4.2 Skin Scraping Test

Total 54 sample of Skin scraping were tested where 2 sample were found Sarcoptis mite positive and others are negative.

4.3 Clinical Hematological Test

Clinical hematological test include the total 360 sample were tested. This test includes PCV, HB, DLC and Blood Protozoa Identification.

4.4 Urine Test

Urine testing include the total 52 sample were tested. Where 6 samples were abnormal and other sample were normal.

4.5 Microbiological examination

Microbiological examinations include the isolation and identification of organisms from the pathological samples. Bacteriological culture and antibiotic sensitivity test is conducted for microbiological investigation. The samples were milk, urine, tissue, skin scrapings etc. The organisms shown in the culture were subjected to sensitivity test. Antibiotic sensitivity test conducted at VL Surkhet, during 2077/078 the test result is given below. Total 279 sample were culture for bacterial and 20 were fungal culture among them 208 sample had growth of bacteria and 13 sample had growth of fungus. Bacteriology unit receive different sample for bacteria isolation with Antibiotic Sensitivity test result for treatment purpose. Veterinary Laboratory ,Surkhet is also a part of Central Veterinary Laboratory which is responsible for AMR diagnosis. So from this part we VL Lab Surkhet is also going to participate in AMR diagnosis and Surveillance activities which is a Global Issue of all over the world. From coming year we will receive different equipment and documents for AMR activities from Fleming Fund Huge project.. As one health purpose we will also participate in different AMR activities as a One Health Purposes which will also support to our capacity building of our Laboratory as well.

SN	Sample Type	Number
1	Tissue	83
2	Milk	121
3	Water	32
4	Fish	8

5	Swab	11
6	Feed	20
7	Straw	3
8	Egg	1
Total		279

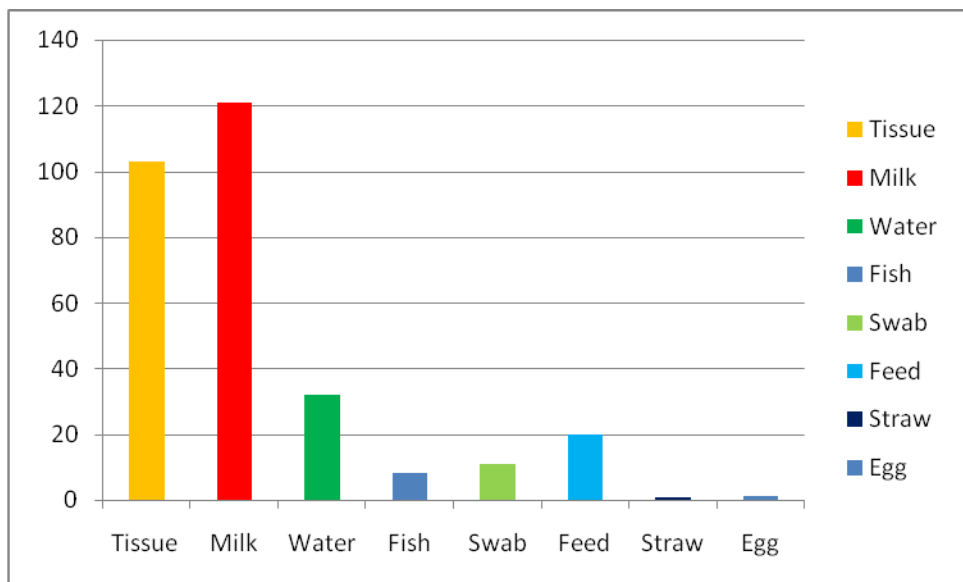


Figure: Microbiological Sample in F/Y 2077/78

SN	Name of Bacteria Isolated Spp	No of Isolates
1	E. coli	61
2	Salmonella	8
3	Streptococcus	8
4	Staphylococcus	32
5	Pseudomonas	10
6	Proteus	15
7	Bacillus	8
8	Klebsiella	16
9	Shigella	0
10	Fungus	32
11	No Growth	68
Total		240

S.No.	Sample	Isolate	Total
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1.	Milk	E. coli	47
2.	Tissue	E.coli	14
3.	Milk	Staph spp	27
4.	Tissue	Staph spp	5

Fig: Highly prevalence Isolate found in bacteriological sample

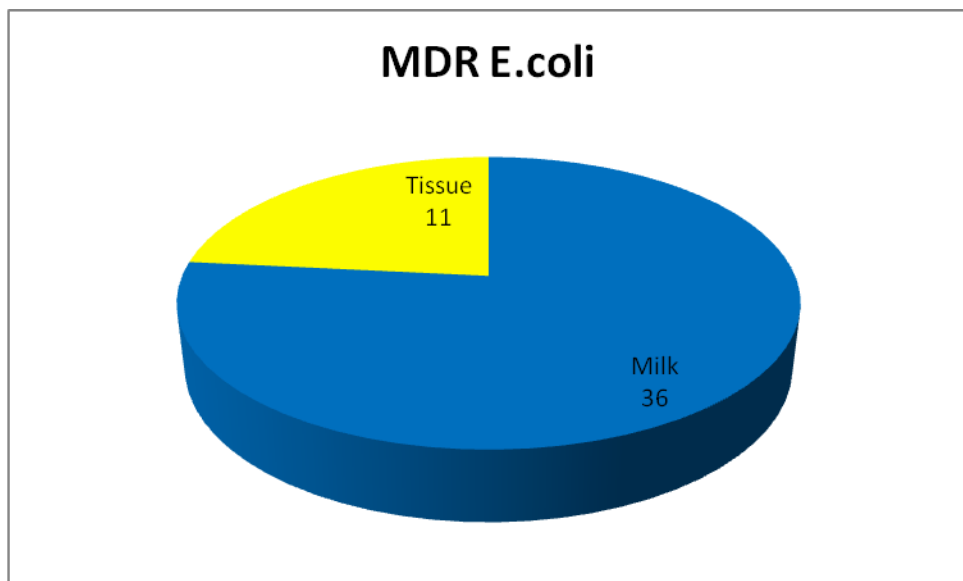


Fig: MDR E.coli found in different sample

4.6 California Mastitis Test Result

California mastitis test was used to diagnose clinical and sub clinical mastitis of animal in laboratory as well as in field level. Total 390 milk sample were tested. Among them 114 sample were positive and further for treatment microbial culture, isolation and Antibiotic Sensitivity test were done.

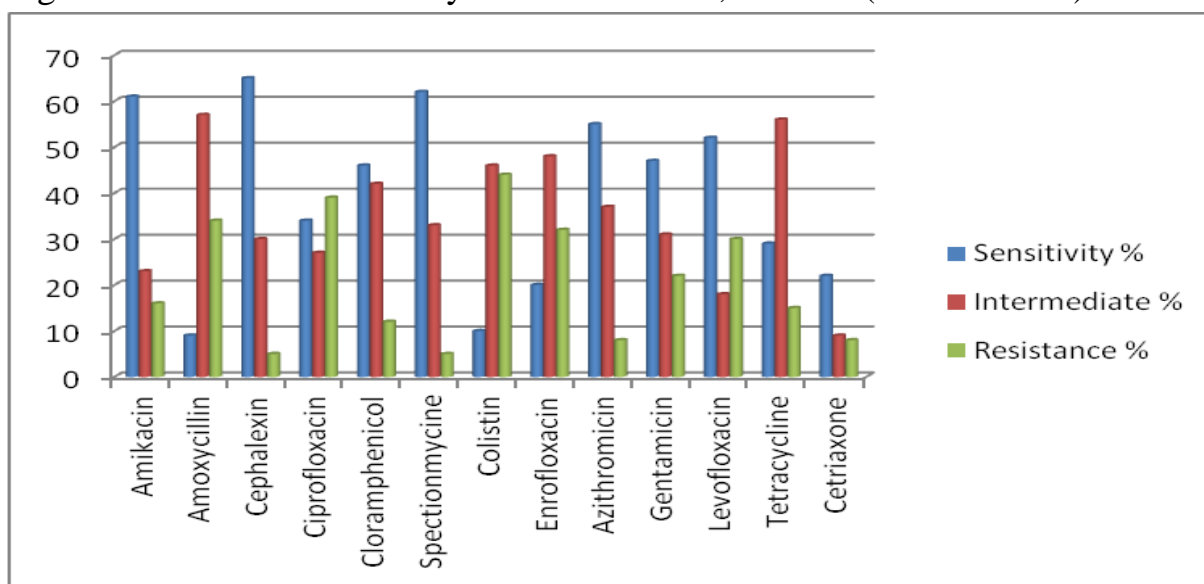
CMT Test	Positive	Negative	Total
No of Sample	114	276	390

4.7 Antibiotic Sensitivity

SN	Antibiotic Name	Sensitivity %	Intermediate %	Resistance %
1	Amikacin	61	23	16
2	Amoxycillin	9	57	34

3	Cephalexin	65	30	5
4	Ciprofloxacin	34	27	39
5	Cloramphenicol	46	42	12
6	Spectionmycine	62	33	5
7	Colistin	10	46	44
8	Enrofloxacin	20	48	32
9	Azithromicin	55	37	8
10	Gentamicin	47	31	22
11	Levofloxacin	52	18	30
12	Tetracycline	29	56	15
13	Cetriaxone	22	9	8

Figure 2: Antibiotic sensitivity test result of VL, Surkhet (FY 2077/078)



4.8 Antibiotic Residue

4.81 Residue Test in Meat Sample

In Meat sample of Chicken from Surkhet district over all Prevalence found 44% positive in Antibiotic Residue test of Meat sample whereas 24% of Meat sample have multidrug Residue and 20% is positive in Single drug Residue. In 2sample of local chicken meat found 2 samples found positive. In Broiler Chicken Meat 39.13% positive in Antibiotic Residue test. Among broiler chicken 26.08% have multidrug Residue and 13.04% have single drug Residue through RR Test Kit.

4.8 Residue Test in Milk Sample

In 50 milk sample collected from Surkhet district about 11.53% positive in Antibiotic Residue test. Among them 21 sample were taken from buffalo and 5 sample from cattle. In buffalo milk sample 9.52% positive in Antibiotic Residue test. 3 sample found 2.5ug/liter (ppb) residue of Penicillin Group Antibiotic RR Test Kit.

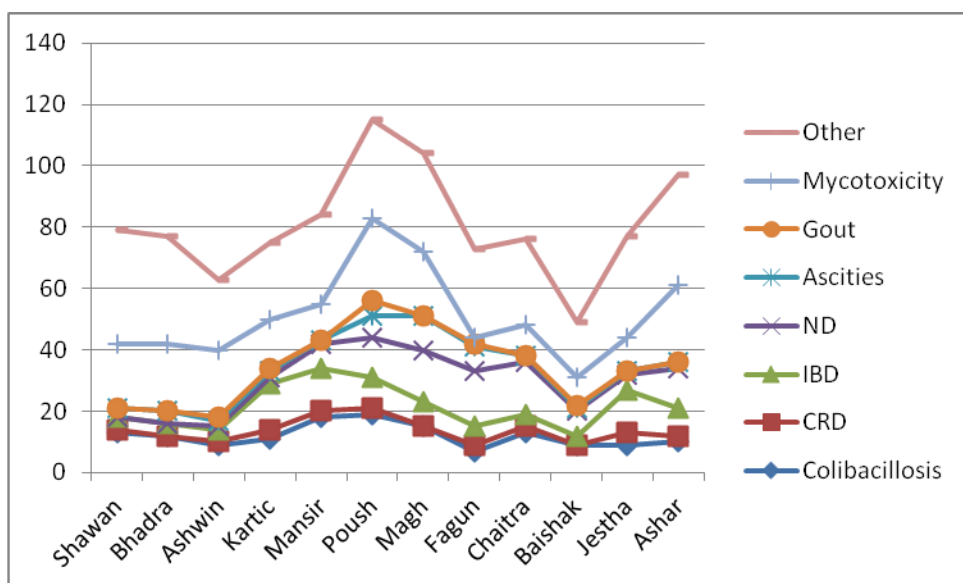
60 milk sample collected from Bardiya District and 28 samples collected from Banke District for residue test. Among 88 sample of milk Gentamicin Residue found positive 11 sample (12.5%). 2 Sample from cattle Milk, 3 Sample from buffalo milk and 6 Sample from mixed milk are positive through Cusabio Gentamicin Elisa Test Kit. Gentamicin drug MRLs of Nepal in milk sample is 200ppb So result of this study is under acceptable range for food safety purpose.

4.9 Pathological examination:

The pathological examination includes mostly post mortem examination of poultry received from commercial poultry farms. Most of the cases were brought from Birendranagar Municipality and surrounding Rural Municipalities and Municipality like as Lekbesi, Simta, Bheriganga, Gurbakot, Barahatal and some Municipality and rural Municipality of Banke, Bardiya and Dang District for pathological examination. The status of poultry diseases according to post-mortem examination is shown in figure below.

Postmortem	Shawan	Bhadra	Ashwin	Kartik	Mansir	Poush	Magh	Fagun	Chaitra	Baishak	Jestha	Ashar	Total
Colibacillosis	13	12	9	11	18	19	15	7	13	9	9	10	145
CRD	1	0	1	3	2	2	0	2	2	0	4	2	19
IBD	4	4	4	15	14	10	8	6	4	3	14	9	95
ND	0	0	1	2	8	13	17	18	17	8	5	13	102
Ascities	3	4	2	2	1	7	11	8	2	1	1	2	44
Gout	0	0	1	1	0	5	0	1	0	1	0	0	9
Mycotoxicity	21	22	22	16	12	27	21	2	10	9	11	25	198
Other	37	35	23	25	29	32	32	29	28	18	33	36	357
Total	66	77	60	75	84	115	104	71	61	49	74	90	969

Figure-3 Poultry diseases identified in post-mortem.



4.10 Virological examination

A total of 1544 samples of different domestic animal were collected from the different field of VL, Surkhet for virological analysis of different zoonotic and other disease through rapid test Kit. All 1544 sample were tested. The results of the test are presented in the table below.

S.N	RAPID Test	Positive	Negative	Total
1	AI	23	509	532
2	IBD	88	293	381
3	ND	67	319	496
4	IB	8	221	229
5	Rabies	4	12	16
	Total	190	1354	1544

4.11 Serological examination

A total of 1410serum samples of different domestic animal were collected from the different field of VL, Surkhet for serological analysis of different zoonotic and other disease. All 1410 sample were tested. The results of the test are presented in the table below.

Table 3: Result of plate agglutination test different Diseases (FY 2077/078)

S.N.	Conducted Test	Total Sample	No of Positive Sample	Positive %
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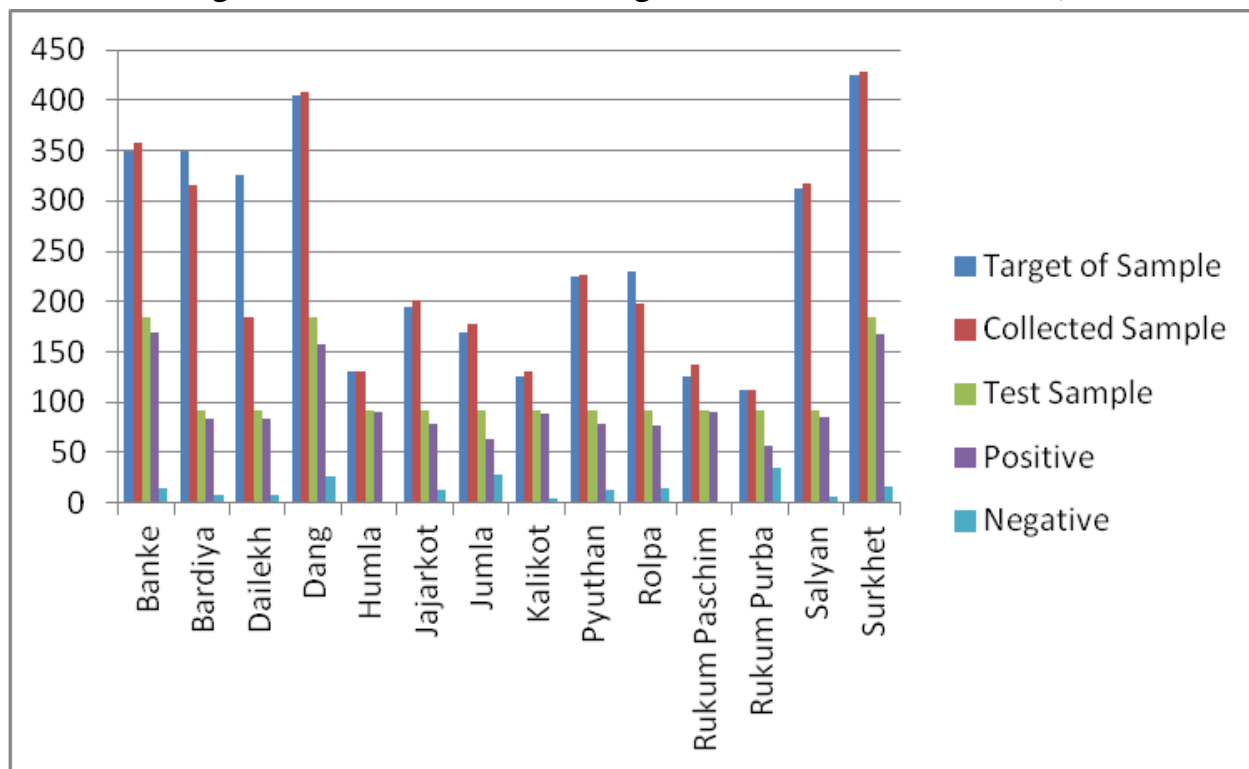
		Tested		
1	Rose Bengal Plate	502	0	0
2	Salmonella Plate	329	103	31.30
3	Mycoplasma Plate	329	140	42.55
4	PPR Penside Test	250	16	6.4
5	Total	1410	324	

5. National PPR Program

Under the National PPR Control program, Department of Livestock Services had provided 1035000 doses of PPR vaccine for 16 districts of this region. Vet Lab Surkhet supported the program by sero-monitoring. Sample were collected FY 076/077 and tested in FY 2077/078. District-wise collection of serum sample and laboratory result is presented in the table below.

SN	Name of District	Target of Sample	Collected Sample	Test Sample	Positive	Negative	Positive Percent
1	Banke	350	357	184	170	14	92.4
2	Bardiya	350	315	92	84	8	91.3
3	Dailekh	325	184	92	84	8	91.3
4	Dang	405	409	184	158	26	85.9
5	Humla	130	130	92	91	1	98.9
6	Jajarkot	195	202	92	79	13	85.9
7	Jumla	170	177	92	64	28	69.6
8	Kalikot	125	130	92	88	4	95.7
9	Pyuthan	225	226	92	79	13	85.9
11	Rolpa	230	198	92	77	15	83.7
12	Rukum Paschim	125	137	92	90	2	97.8
13	Rukum Purba	113	113	92	57	35	62.0
13	Salyan	313	318	92	86	6	93.5
14	Surkhet	425	428	184	168	16	91.3
	Total	3481	3324	1564	1375	189	87.9

Figure 4: PPR Sero-Monitoring test result of VL, Surkhet (FY 2075/076)



List of Vaccine Distributed of PPR and ND District wise

S.N	District	PPR	ND
1	Surkhet	186000	20000
2	Dailekh	147000	20000
3	Salyan	264000	20000
4	Jajarkot	80000	20000
5	Jumla	55000	10000
6	Kalikot	40000	10000
7	Humla	60000	0
8	Dolpa	50000	0
9	Mugu	45000	0
10	West Rukum	99000	10000
11	Dang	260000	0
12	Banke	250000	0
13	Bardiya	250000	0

14	Rolpa	150000	20000
15	Pyuthan	140000	20000
16	East Rukum	50000	0
	Total	1076000	150000

6 भुमी व्यवस्था कृषि तथा सहकारी मन्त्रालय बाट प्राप्त कार्यक्रमको संकलित नमूनाहरुको परिक्षण विवरण

क्र.सं.	ठेगाना	स्वाब				सिरम				स्वाब कुखुरा						
		जम्मा संकलित नमूना संख्या	जम्मा परिक्षण नमूना संख्या	PPR AG ELISA नतिजा		जम्मा संकलित नमूना संख्या	जम्मा परिक्षण नमूना संख्या	FMD NSP ELISA नतिजा		जम्मा संकलित नमूना संख्या	जम्मा परिक्षण नमूना संख्या	Rapid Test Result				
				Neg	Pos			Neg	Pos			AI		ND		
												Ne g	Pos	Ne g	Pos	
१	भेरीगंगा, सुर्खेत	३४	३४	२५	९	४८	४८	४६	२	०	०	०	०	०	०	०
२	बराहताल, सुर्खेत	३५	३५	१६	१९	३५	३५	२९	६	१०५	१०५	१०५	०	१	५	०
३	लेकवेशि, सुर्खेत	५४	५२	४५	७	५७	५७	५४	३	०	०	०	०	०	०	०
४	नारायण/महाबु, दैलेख	५१	४६	३४	१२	५१	५१	४५	६	७	७	७	०	७	०	०
५	लेकवेशि/बि. न.पा. , सुर्खेत	१६	१५	१४	१	३८	३८	३८	०	०	०	०	०	०	०	०
६	लेकवेशि, सुर्खेत	६२	६२	५९	३	६२	६१	६०	१	०	०	०	०	०	०	०
७	भगवतिमाई, दैलेख	५६	५६	५०	६	८१	८१	७६	५	०	०	०	०	०	०	०
८	गुराँस, दैलेख	६६	४६	३२	१४	६६	५९	५५	४	०	०	०	०	०	०	०
९	शारदा, सल्यान	१००	८६	६९	१७	१०६	१०५	१००	५	०	०	०	०	०	०	०
	जम्मा	४७४	४३२	३४४	८८	५४४	५३५	५०३	३२	११	११२	११	२	१	२	०

7. List of designations.

Table 7: List of designations in Veterinary Laboratory, Surkhet

S. N.	Designation	Class	Number of Post	Fulfilled	Remarks
1	Senior Veterinary Officer	Gaz.2	1	1	
2	Veterinary Officer	Gaz.3	3	3	
3	Animal Health Technician	Non.Gaz.1	3	3	
4	Asst. Animal Health Technician	Non.Gaz.2	2	2	
5	Accountant	Non.Gaz.1	1	1	
6	Kharidar	Non.Gaz.2	1	1	
7	Driver	Class less	1	1	
8	Office Helper	Class less	2	1	1 Karar
	Total		14	14	

8. Problems of Veterinary Laboratory, Surkhet

- Geographical difficulty for early detection and rapid response in remote villages.
- Limited budgets on logistics and program implementation in rural mountain areas.
- Lack of staffs (especially technical staffs) and laboratory equipments to provide the emergency services.
- Inadequate rooms to perform post-mortem of small and large animals as well as staffs units.
- Lack of Laboratory training and refreshment training for staffs.
- Covid-19 lab disturbance in organization of laboratory program.

9. Some Important Flex



नेपाल सरकार
कृषि तथा पशुपन्ध्री विकास मन्त्रालय
पशु सेवा विभाग

केन्द्रिय पशुपन्ध्री रोग अन्वेषण प्रयोगशाला पशुपन्ध्री रोग अन्वेषण प्रयोगशाला वीरेन्द्रनगर, सुर्खेत

पशुपन्ध्रीहरूमा लाग्ने तपशिलका रोगहरूको प्रयोगशाला परिक्षणका लागि नमुना संकलन, संरक्षण तथा सम्प्रेषण

क्र.स.	रोगको नाम	उपयुक्त नमुना संकलन	संरक्षण तथा सम्प्रेषण
१	खोरेत (FMD)	मुख, जिब्रो, गिजा र खुर वरिपरीको ताजा घाउको स्वाव एवं तन्तु नमुना एवं मुख वरीपरी आउने पानि फोका भित्रको भोल सिरम (रोग लागेको पछिल्लो अवस्थामा) मरेको पशुको लिम्फनोड, फियो, मुटु आदी	५०% फस्फेट बफर ग्लिसिरीनमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने सिरम भायलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने Sterile bottle वा Zip Lock bagमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
२	लम्पी स्किन डिजिज (LSD)	छालामा हुने गिर्खाको घाउको पाप्रा, तन्तु वा स्वाव रगत सिरम	भि.टि.एम./पि.वि.एस./10% Glycerineमा राखेर कुलबक्समा Ice pack सहित राखेर पठाउने ३ मि.लि. रगतको नमुना EDTA vialमा राखेर कुलबक्समा Ice pack सहित राखेर पठाउने सिरम भायलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
३	पि.पि.आर. (PPR)	आँखा, नाकबाट निस्केको श्रावको स्वाव (Ocular/Nasal Swab) मरेको भेडावाखाको लिम्फनोड, फियो, फोक्सो, कलेजो आदी	०.५-१.० मि.लि. पि.वि.एस.मा राखेर कुलबक्समा Ice pack सहित राखेर पठाउने Sterile bottle वा Zip Lock bagमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
४	स्वाइन फिबर (Swine Fever)	सिरम मरेको बंगुरको लिम्फनोड, फियो, फोक्सो, कलेजो आदी	सिरम भायलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने Sterile bottle वा Zip Lock bagमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
५	पि.आर.आर.एस. (PPRS)	सिरम	सिरम भाइलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
६	वर्ड फ्लु (AI) र रानीखेत रोग (ND)	Tracheal Swab / Cloacal Swab (In wild birds fresh Faecal Swab) मरेको कखुरा वा अन्य पन्ध्री	०.५-१.० मि.लि. पि.वि.एस. वा VTMमा राखेर कुलबक्समा Ice pack सहित राखेर पठाउने कुलबक्समा Ice pack सहित राखेर पठाउने
७	रेबिज (Rabies)	मरेको पशुको गिदी (Brain) वा टाउको	गिदीलाई Sterile bottleमा र टाउकोलाई प्लास्टिक व्यागमा प्याक गरी कुलबक्समा Ice pack राखेर पठाउने
८	गल्यान्डर्स (Glanders)	घाउहरुबाट निस्कने पिप, स्वाव, तन्तु	Sterile bottle मा १.० मि.लि. पि.वि.एस.मा राखेर कुलबक्समा Ice pack सहित राखेर पठाउने ।
९	भ्यागुते (H S)	रगतको स्मियर रगत मरेको पशुको लिम्फनोड, फियो, फोक्सो, कलेजो आदी	टिस्यु पेपर वा कागजमा बेरेर वा स्लाईड बक्समा राखेर पठाउने । ३ मि.लि. रगतको नमुना EDTA vialमा राखेर कुलबक्समा Ice pack सहित राखेर पठाउने । Sterile bottle वा Zip Lock bagमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
१०	चरचरे (BQ)	सुनिएको भित्री भागको स्मियर सुनिएको भागको मासुको टुक्रा	टिस्यु पेपर वा कागजमा बेरेर वा स्लाईड बक्समा राखेर पठाउने । Sterile bottle वा Zip Lock bagमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
११	थुनेलो (Mastitis)	दुधको नमुना	प्रत्येक थुनको १०-१५ मि.लि. दुधको नमुना अलग अलग Sterile bottleमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
१२	पटके (Anthrax)	कानको नशाबाट लिएको रगतको स्मियर	टिस्यु पेपर वा कागजमा बेरेर वा स्लाईड बक्समा राखेर पठाउने ।
१३	ब्रुसेलोसिस (Brucellosis)	पशु तुहाएको ३ हप्तापछिको सिरम	सिरम भायलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
१४	क्षयरोग (TB)	सिरम प्रभावित अडको पिप र अङ्को टुक्रा	सिरम भाइलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने स्टेराईल बोतलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने
१५	लेप्टोस्पाईरोसिस (Leptospirosis)	सिरम	सिरम भायलमा राखी कुलबक्समा Ice pack सहित राखेर पठाउने

फोन नं. ०८३-५२०२५०, फ्याक्स नं. ०८३-५२३७६२

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पशु सेवा विभाग

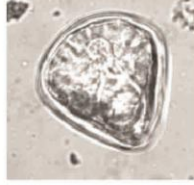
केन्द्रिय पशुपन्छी रोग अन्वेषण प्रयोगशाला पशुपन्छी रोग अन्वेषण प्रयोगशाला वीरेन्द्रनगर, सुर्खेत

गोबर परिक्षण गर्दा बिभिन्न परजिबीका अण्डाहरु पहिचान

१. फित्ते जुकाका अण्डाहरु



Moniezia expansa

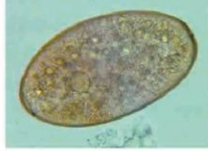


Moniezia benedeni

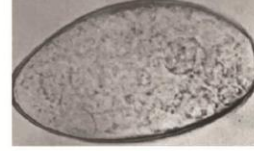


Dipylidium caninum

२. चेप्टो जुकाका अण्डाहरु

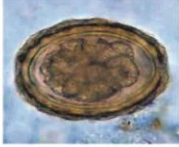


Fasciola



Paramphistomum

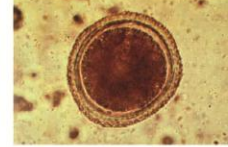
३. गोलो जुकाका अण्डाहरु



Ascaris



Strongyles



Toxocara



Trichuris



Haemonchus



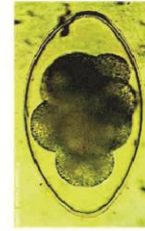
Bunostomum



Strongyloides



Trichostrongylus



Nematodirus

फोन नं. ०८३-५२०२५०, फ्याक्स नं. ०८३-५२३७६२

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10.VEC Code

S.N.	District	Local unit	VEC_Code
Lumbini Province			
1	Rukum East	Putha Uttanganga Rural Municipality	50101
	Rukum East	Sisne Rural Municipality	50102
	Rukum East	Bhooma Rural Municipality	50103
2	Rolpa	Sunchhahari Rural Municipality	50201
	Rolpa	Thawang Rural Municipality	50202
	Rolpa	Duikhola Rural Municipality	50203
	Rolpa	Sukidaha Rural Municipality	50204
	Rolpa	Madi Rural Municipality	50205
	Rolpa	Tribeni Rural Municipality	50206
	Rolpa	Rolpa Municipality	50207
	Rolpa	Runtigadhi Rural Municipality	50208
	Rolpa	Subarnabati Rural Municipality	50209
	Rolpa	Lungri Rural Municipality	50210
3	Pyuthan	Gaumukhi Rural Municipality	50301
	Pyuthan	Naubahini Rural Municipality	50302
	Pyuthan	Jhimaruk Rural Municipality	50303
	Pyuthan	Pyuthan Municipality	50304
	Pyuthan	Sworgadwari Municipality	50305
	Pyuthan	Mandavi Rural Municipality	50306
	Pyuthan	Mallarani Rural Municipality	50307
	Pyuthan	Aairawati Rural Municipality	50308
	Pyuthan	Sarumarani Rural Municipality	50309
4	Dang	Bangalachuli Rural Municipality	51001
	Dang	Ghorahi Sub-Metropolitan City	51002
	Dang	Tulsipur Sub-Metropolitan City	51003
	Dang	Shantinagar Rural Municipality	51004
	Dang	Babai Rural Municipality	51005
	Dang	Dangisharan Rural Municipality	51006
	Dang	Lamahi Municipality	51007
	Dang	Rapti Rural Municipality	51008
	Dang	Gadhawa Rural Municipality	51009
	Dang	Rajpur Rural Municipality	51010
5	Banke	Rapti Sonari Rural Municipality	51101
	Banke	Kohalpur Municipality	51102

	Banke	Baijanath Rural Municipality	51103
	Banke	Khajura Rural Municipality	51104
	Banke	Janaki Rural Municipality	51105
	Banke	Nepalganj Sub-Metropolitan City	51106
	Banke	Duduwa Rural Municipality	51107
	Banke	Narainapur Rural Municipality	51108
6	Bardiya	Bansgadhi Municipality	51201
	Bardiya	Barbardiya Municipality	51202
	Bardiya	Thakurbaba Municipality	51203
	Bardiya	Geruwa Rural Municipality	51204
	Bardiya	Rajapur Municipality	51205
	Bardiya	Madhwan Municipality	51206
	Bardiya	Gulariya Municipality	51207
	Bardiya	Badhaiyatal Rural Municipality	51208
Karnali Province			
7	Dolpa	Dolpo Buddha Rural Municipality	60101
	Dolpa	Shey Phoksundo Rural Municipality	60102
	Dolpa	Jagadulla Rural Municipality	60103
	Dolpa	Mudkechula Rural Municipality	60104
	Dolpa	Tripurasundari Municipality	60105
	Dolpa	Thulibheri Municipality	60106
	Dolpa	Kaike Rural Municipality	60107
	Dolpa	Chharka Tangsong Rural Municipality	60108
8	Mugu	Mugumakarmarog Rural Municipality	60201
	Mugu	Chhayanath Rara Municipality	60202
	Mugu	Soru Rural Municipality	60203
	Mugu	Khatyad Rural Municipality	60204
9	Humla	Chankheli Rural Municipality	60301
	Humla	Kharpunath Rural Municipality	60302
	Humla	Simkot Rural Municipality	60303
	Humla	Namkha Rural Municipality	60304
	Humla	Sarkegad Rural Municipality	60305
	Humla	Adanchuli Rural Municipality	60306
	Humla	Tanjakot Rural Municipality	60307
10	Jumla	Patarasi Rural Municipality	60401
	Jumla	Kanaka Sundari Gaun Palika	60402
	Jumla	Sinja Rural Municipality	60403
	Jumla	Chandannath Municipality	60404

	Jumla	Guthichaur Rural Municipality	60405
	Jumla	Tatopani Rural Municipality	60406
	Jumla	Tila Rural Municipality	60407
	Jumla	Hima Rural Municipality	60408
11	Kalikot	Palata Rural Municipality	60501
	Kalikot	Pachal Jharana Rural Municipality	60502
	Kalikot	Raskot Municipality	60503
	Kalikot	Sanni Tribeni Rural Municipality	60504
	Kalikot	Naraharinath Rural Municipality	60505
	Kalikot	Khandachakra Municipality	60506
	Kalikot	Tilagupha Municipality	60507
	Kalikot	Mahawai Rural Municipality	60508
	Kalikot	Kalika Rural Municipality	60509
12	Dailekh	Naumule Rural Municipality	60601
	Dailekh	Mahabu Rural Municipality	60602
	Dailekh	Bhairabi Rural Municipality	60603
	Dailekh	Thantikandh Rural Municipality	60604
	Dailekh	Aathbis Municipality	60605
	Dailekh	Chamunda Bindrasaini Municipality	60606
	Dailekh	Dullu Municipality	60607
	Dailekh	Narayan Municipality	60608
	Dailekh	Bhagawatimai Rural Municipality	60609
	Dailekh	Dungeshwor Rural Municipality	60610
	Dailekh	Gurans Rural Municipality	60611
13	Jajarkot	Barekot Rural Municipality	60701
	Jajarkot	Kuse Rural Municipality	60702
	Jajarkot	Junichande Rural Municipality	60703
	Jajarkot	Chhedagad Municipality	60704
	Jajarkot	Shivalaya Rural Municipality	60705
	Jajarkot	Bheri Malika Municipality	60706
	Jajarkot	Tribeni Nalagad Municipality	60707
14	Rukum West	Aathabisakot Municipality	60801
	Rukum West	Sanibheri Rural Municipality	60802
	Rukum West	Banphikot Rural Municipality	60803
	Rukum West	Musikot Municipality	60804
	Rukum West	Tribeni Rural Municipality	60805
	Rukum West	Chaurjahari Municipality	60806
15	Salyan	Darma Rural Municipality	60901
	Salyan	Kumakh Malika Rural Municipality	60902
	Salyan	Banagad Kupinde Municipality	60903

	Salyan	Dhorchaur Rural Municipality	60904
	Salyan	Bagachour Municipality	60905
	Salyan	Chhatreshwori Rural Municipality	60906
	Salyan	Sharada Municipality	60907
	Salyan	Kalimati Rural Municipality	60908
	Salyan	Tribeni Rural Municipality	60909
	Salyan	Kapurkot Rural Municipality	60910
16	Surkhet	Simta Rural Municipality	61001
	Surkhet	Chingad Rural Municipality	61002
	Surkhet	Lekabeshi Municipality	61003
	Surkhet	Gurbhakot Municipality	61004
	Surkhet	Bheriganga Municipality	61005
	Surkhet	Birendranagar Municipality	61006
	Surkhet	Barahatal Rural Municipality	61007
	Surkhet	Panchapuri Municipality	61008
	Surkhet	Chaukune Rural Municipality	61009

11. Some Glimpse of our activities

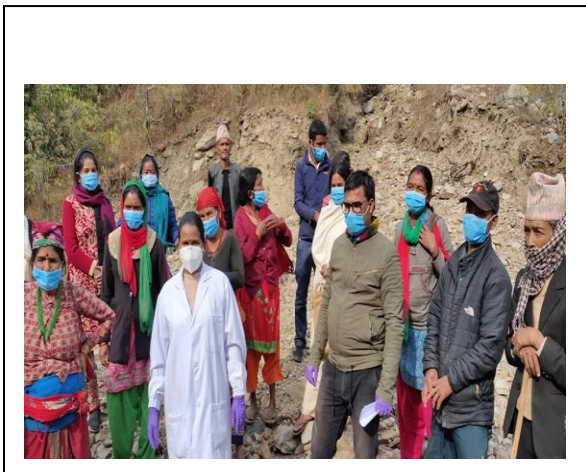
नमुना संकलन तथा उपचारका क्रममा लिईएका केहि फोटो हरुः





भ्रमणको क्रममा लिएका केही फोटोहरु:







बढैयाताल गाउँपालिकामा सरकारी तवरबाट
संचालित माछा पोखरी



बढैयाताल गाउँपालिकामा निजी स्तरबाट
संचालित माछा पोखरी



