

CLINICAL EPIDEMIOLOGY OF PATIENTS VISITING AT JUNAGADH VETERINARY HOSPITAL

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Abstract: In the present study, epidemiological data of domestic animals, pet animals, wild animals and birds visited for treatment in Veterinary hospital and clinical information of medical, gynaecological as well as surgical case data of during two years (2014-15) were total 15,909 cases recorded in Junagadh Veterinary College hospital during 2014 and 2015 following observation were made in which 20.99 % cases were from Cattle category, 20.90 % cases were from Buffalo category, 11.22 % cases were from Equine category, 35.02 % cases were from Canine category, 11.87 % cases were from other category especially birds, cat, camel, goat, sheep, donkey, tortoise, lion, rabbit, tiger, squirrel etc. Similarly, 61.04 % cases recorded were for Medicine & Health Care, 27.17 % cases recorded were for surgical intervention, 11.79 % cases recorded were for Gynaecological Disorders. Maximum cases were treated in August, September and January month. Incidences of medical health care problems are found more than surgery and gynaecology. Incidence of prophylactic vaccination followed by gastrointestinal surgical conditions and repeat breeder problems are noticed during year 2014-15 at Junagadh Veterinary hospital (TVCC).

Keywords: TVCC, Junagadh Veterinary Hospital, Clinical epidemiology.

Background information

The department of Teaching Veterinary Clinical Complex (TVCC) is an important part of the college where different species, breeds of domestic animals, pet animals, wild animals, and birds with various diseases are presented for specialized diagnosis, treatment and prophylaxis purpose. The department works in collaboration with department of Clinical Veterinary Medicine, and Department of Gynaecology. There are different types of diseases found in animals; Clinical epidemiology study of patients is an important tool for controlling such contagious disease which is Zoonotic, infectious diseases by proper vaccination schedule as well as giving early treatment. Comparative epidemiological study gives an idea about several types of cases, better diagnosis methods, treatment and control of such clinical cases. Therefore, the present study is designed to investigate the prevalence and treatment

response of Medical, Gynaecological and Surgical cases in domestic, pet, wild animals and birds visiting to Junagadh Veterinary Hospital TVCC

Experimental details:

The study was carried out about cases registered in TVCC; to assess prevalence of various diseases by filling of Performa including history and other information such as treatment, recovery, re-occurrence of disease etc. The Etiological factors were studied by history viz., feeding, housing, pedigree history etc.

Total fifteen thousand nine hundred nine patients visited to Junagadh veterinary college hospital during 2014-2015 were registered in TVCC department and their prevalence of diseases, etiology, repeat case history and their normal feeding housing, pedigree were registered. Most of the domestic animals including dogs, cattle, buffaloes, equines, and others animals like wilds, feline, fowl, caprine, ovine, etc. are registered in hospital for treatment with different disease category especially under medical, surgery and gynaecological disorders.

Table 1: Total Cases visited to Junagadh Veterinary College Hospital during year 2014 and 2015

| Sr.No | Month | Cattle | | Buffalo | | Equine | | Canine | | Others | | Total |
|-------|--------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|------------|-------------|--------------|
| | | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | |
| 1 | January | 105 | 201 | 142 | 146 | 40 | 119 | 178 | 266 | 57 | 253 | 1507 |
| 2 | February | 77 | 140 | 83 | 133 | 25 | 54 | 201 | 278 | 33 | 51 | 1075 |
| 3 | March | 120 | 144 | 99 | 81 | 94 | 114 | 237 | 320 | 54 | 55 | 1318 |
| 4 | April | 130 | 120 | 123 | 71 | 31 | 47 | 150 | 203 | 53 | 90 | 1018 |
| 5 | May | 136 | 179 | 124 | 102 | 49 | 81 | 196 | 239 | 69 | 53 | 1228 |
| 6 | June | 109 | 146 | 115 | 117 | 46 | 75 | 237 | 267 | 53 | 61 | 1226 |
| 7 | July | 131 | 162 | 118 | 143 | 40 | 61 | 274 | 300 | 67 | 90 | 1386 |
| 8 | August | 126 | 207 | 158 | 193 | 68 | 68 | 231 | 223 | 68 | 200 | 1542 |
| 9 | September | 179 | 104 | 235 | 171 | 78 | 73 | 251 | 262 | 90 | 86 | 1529 |
| 10 | October | 103 | 110 | 162 | 175 | 71 | 125 | 162 | 227 | 50 | 67 | 1252 |
| 11 | November | 195 | 91 | 232 | 122 | 53 | 211 | 234 | 124 | 75 | 50 | 1387 |
| 12 | December | 198 | 127 | 152 | 128 | 77 | 84 | 241 | 271 | 91 | 72 | 1441 |
| | Total | 1609 | 1731 | 1743 | 1582 | 672 | 1112 | 2592 | 2980 | 760 | 1128 | 15909 |

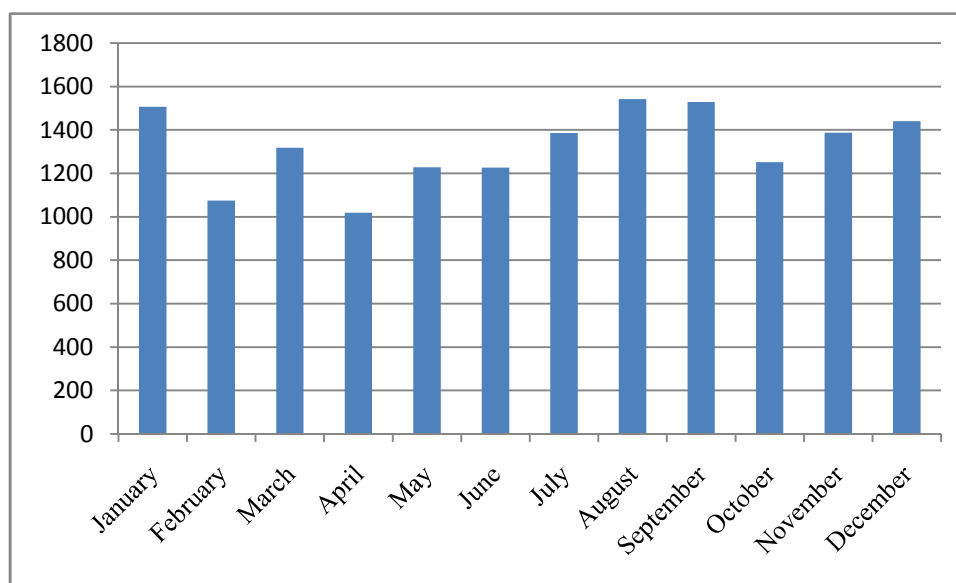
Total number of different animal cases visited to Junagadh Veterinary College hospital during year 2014 and 2015 in which several types of birds including pigeons, poultry, kite, ibis, flamingo, ducks, emu, sparrows, bajari (love birds), parrots etc., cat, camel, goat, sheep, donkey, tortoise / turtle, lion, tiger, squirrel, etc. were registered.

Table 2: Total number of different animal cases visited to Junagadh Veterinary College Hospital during year 2014 and 2015

| Sr.No | Month | Birds | Cat | Camel | Goat | Sheep | Donkey | Tortoise | Lion | Rabbit | Tiger | Squirrel | Total |
|-------|--------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|-------------|
| 1 | January | 204 | 4 | 16 | 80 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 310 |
| 2 | February | 28 | 6 | 4 | 38 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 84 |
| 3 | March | 26 | 14 | 14 | 48 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 109 |
| 4 | April | 32 | 6 | 6 | 80 | 4 | 2 | 3 | 7 | 3 | 0 | 0 | 143 |
| 5 | May | 24 | 3 | 2 | 69 | 5 | 6 | 1 | 10 | 2 | 0 | 0 | 122 |
| 6 | June | 18 | 2 | 5 | 73 | 2 | 4 | 2 | 2 | 4 | 0 | 2 | 114 |
| 7 | July | 18 | 7 | 10 | 73 | 43 | 3 | 2 | 0 | 0 | 1 | 0 | 157 |
| 8 | August | 41 | 26 | 8 | 142 | 38 | 7 | 3 | 0 | 2 | 0 | 1 | 268 |
| 9 | September | 36 | 14 | 0 | 111 | 7 | 2 | 2 | 0 | 3 | 0 | 1 | 176 |
| 10 | October | 8 | 10 | 4 | 90 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 117 |
| 11 | November | 12 | 6 | 2 | 89 | 8 | 0 | 4 | 0 | 4 | 0 | 0 | 125 |
| 12 | December | 42 | 7 | 2 | 93 | 12 | 0 | 3 | 0 | 4 | 0 | 0 | 163 |
| | Total | 489 | 105 | 73 | 986 | 135 | 30 | 24 | 19 | 22 | 1 | 4 | 1888 |

Table 3: Numbers of cases as per different disease category Year-2014-2015

| Sr.No | Month | Medicine | | Surgery | | Gynecology | | Total |
|-------|--------------|-------------|-------------|-------------|-------------|------------|------------|--------------|
| | | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | |
| 1 | January | 346 | 671 | 117 | 223 | 59 | 91 | 1507 |
| 2 | February | 254 | 361 | 107 | 204 | 58 | 91 | 1075 |
| 3 | March | 380 | 391 | 146 | 249 | 78 | 74 | 1318 |
| 4 | April | 242 | 338 | 183 | 134 | 62 | 59 | 1018 |
| 5 | May | 289 | 409 | 215 | 178 | 70 | 67 | 1228 |
| 6 | June | 312 | 416 | 197 | 200 | 51 | 50 | 1226 |
| 7 | July | 371 | 537 | 195 | 159 | 64 | 60 | 1386 |
| 8 | August | 448 | 608 | 138 | 173 | 65 | 110 | 1542 |
| 9 | September | 436 | 429 | 273 | 183 | 124 | 84 | 1529 |
| 10 | October | 337 | 397 | 146 | 190 | 65 | 117 | 1252 |
| 11 | November | 508 | 409 | 173 | 119 | 108 | 70 | 1387 |
| 12 | December | 387 | 435 | 254 | 167 | 118 | 80 | 1441 |
| | Total | 4310 | 5401 | 2144 | 2179 | 922 | 953 | 15909 |

Fig 1: Month wise total animals treated at Veterinary Hospital Junagadh

Month wise incidence maximum cases were registered in month of August, September, and January. Prevalence of dog followed by Cattle, buffalo, equine, and other species including birds, goats, cats, sheep, camel, donkey, tortoise, rabbits, etc. was noticed (Table1).

Table 4: Animal Percentage wise cases treated in Veterinary Hospital Junagadh Year 2014-15

| Animal | Year-2014 | Year-2015 | Total | Percentage |
|---------------|------------------|------------------|--------------|-------------------|
| Cattle | 1609 | 1731 | 3340 | 20.99 |
| Buffalo | 1743 | 1582 | 3325 | 20.90 |
| Equine | 672 | 1112 | 1784 | 11.22 |
| Canine | 2592 | 2980 | 5572 | 35.02 |
| Others | 760 | 1128 | 1888 | 11.87 |
| Total | 7376 | 8533 | 15909 | 100.00 |

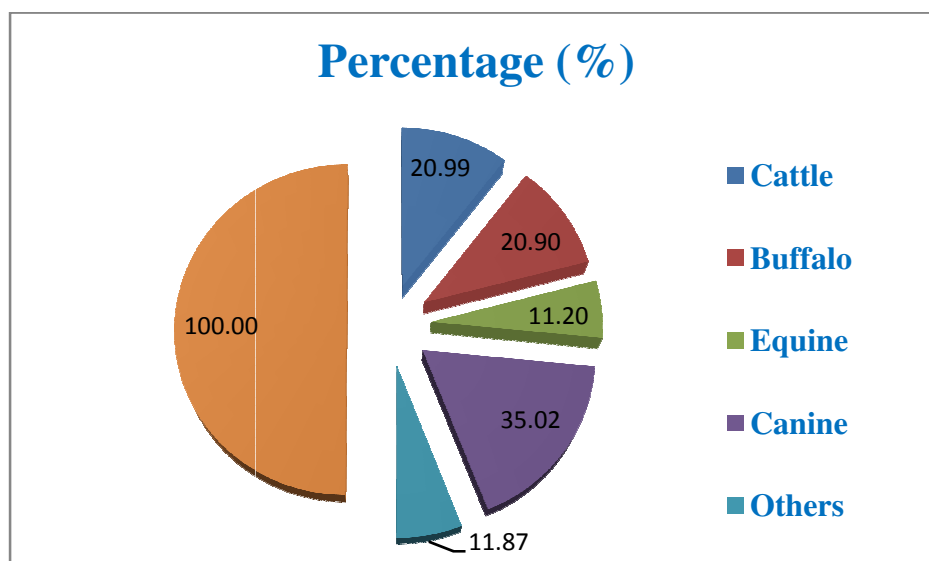


Fig 2: Percentage wise animals treated in Veterinary Hospital Junagadh Year 2014-2015

Total fifteen thousand nine hundred nine (15,909) animals were treated at Veterinary college Hospital Junagadh during year 2014-15 for different major or minor ailments in which nine thousand seven hundred eleven (9,711) animals were treated for medical and health check up category, four thousand three hundred twenty three (4,323) animals were treated for major and minor surgical intervention and one thousand eight hundred seventy five (1,875) cases were treated for gynaecological problems.

Incidences of medical related problems in animals are found maximum. Total two hundred and eight (208) different diseases or problems were recorded in which majority cases are routine prophylactic vaccination against contagious diseases, deworming, general health check up, metabolic disorders, dermatitis or skin infections, GI tract infection, renal failure, mastitis, haemoprotozoan diseases, Tick infestation, multi-organ disorders, worm infestation, vitamin deficiency syndrome, several viral and bacterial diseases, Zoonotic important diseases like rabies, brucellosis, Leptospirosis, scabies etc. were recorded and treated accordingly (Table 5).

Incidences of surgical problems in animals are found more followed by medical problems. Total one hundred ninety six (196) surgical problems were recorded in which majority cases are mainly different types of fractures, Accidental trauma, injury to different organs, tendons, ligaments etc. Integumentary system related surgical conditions like horn cancer, hoof problems, skin wounds, abrasion, major cut, maggot wound, burns, soft tissue elective surgery viz., elective castration, hysterectomy, rumenotomy, diaphragmatic herniorrhaphy, tumours removal, abscesses, cyst etc. Congenital abnormalities like atresia ani, dermoid cyst,

contracted flexor tendons, persistent urachus etc. were recorded and operated accordingly. (Table no- 5)

Incidences of gynaecology problems are found less as compare to medical and surgical problems. Total seventy six (76) problems were recorded in which majority cases were recorded for repeat breeding, Artificial insemination, pregnancy diagnosis, dystokia, prolapse, torsion, retention of placenta, reproductive system related problems like cystic ovary, anoestrus, metritis, underdeveloped genitalia, pyometra, urinary tract infection, vaginitis, recto-vaginal fistula, abortion. Several bacterial, viral diseases, protozoan diseases and congenital abnormalities were recorded and treated (Table no- 5).

Table 5: List of the medicine, surgery and gynaecology problems registered at TVCC, COVSAH, JAU, Junagadh

| Sr | Medicine | Surgery | Gynaecology |
|----|------------------------------|---------------------------|--------------------------|
| 1 | Abomasal displacement | Abdominal hernia | Abortion |
| 2 | Acidosis | Abomasal Displacement | Anoestrous |
| 3 | Actinobacillosis | Acid burn | Anal gland fistula |
| 4 | Actinomycosis | Anal gland tumour | Artificial insemination |
| 5 | Acute carbohydrate ingestion | Ankylosis | Bilateral salpingitis |
| 6 | Acute renal failure | Arthritis | Bladder rupture |
| 7 | Agalactia | Atresia ani | Brucellosis abortion |
| 8 | Aggressive behaviour | Aural Haematoma | Caesarean section |
| 9 | Allergic conjunctivitis | Automobile accident | Calving before gestation |
| 10 | Alopecia | Forelimb fracture in lion | Caslick operation |
| 11 | Amphistomiasis | Blindness/no vision | Cervico vaginal prolapse |
| 12 | Anaemia | Bone cancer | Chronic prolapse |
| 13 | Anal adenitis/ sacculitis | Bone necrosis | Closed pyometra |
| 14 | Anaplasmosis | Bone spavin | Foetus / maceration |
| 15 | Ancylostomiasis | Bowed tendon | Delayed ovulation |
| 16 | Anorexia | Brisket tumour in buffalo | Delayed ovulation |
| 17 | Ascites | Broken ear cartilage | Diestrus condition |
| 18 | Aspiratory pneumonia | Broken horn | Dystokia |
| 19 | Aspiratory pneumonia | Broken teeth | Emphysematous foetus |

| | | | |
|----|----------------------------|--------------------------|-------------------------------------|
| 20 | Atopic dermatitis | Bruises | Endometritis |
| 21 | Avian pox | Burn | 1 st degree Endometritis |
| 22 | Bumble foot in birds | Bursitis | Foaling in horse |
| 23 | Black quarter | Capped elbow | Follicular cyst |
| 24 | Bloat | Capitis | Free martin |
| 25 | Blood protozoan Babesiosis | Castration | Hermaphrodite |
| 26 | Bovine Ketosis | Cat bite wound | condition |
| 27 | Buxtonella sulcata | Cataract | Hyperplasia of vaginal |
| 28 | Brisket oedema | Cheery eye condition | Infertility |
| 29 | Bronchitis | Chock | Kinked cervix |
| 30 | Calcium deficiency | Colic in horse | Late oestrous |
| 31 | Calf diarrhoea | Umbilical rupture | Leucometra |
| 32 | Calf scour | Contracted flexor tendon | Leuteal cyst/ mucometra |
| 33 | Candid infection | Contracted flexor tendon | Maceration |
| 34 | Canine Distemper | Corneal oedema | Mis-mating |
| 35 | Caprine cortical necrosis | Corneal opacity | Mucometra |
| 36 | Cardiomegaly | Corneal rupture | Mucometra |
| 37 | Cerebral haemorrhages | Coxitis | Non dilated cervix |
| 38 | Chorea | Crocodile bite wound | Oestral vaginal prolapse |
| 39 | Chromodacryorrhea | Cyst | Oestrus detection |
| 40 | Chronic Renal Failure | Disbudding of Horn | Ovarian Cyst |
| 41 | Coccidiosis | Dental Scaling | Parturition |
| 42 | Colitis | Dental tarter | Persistent CL |
| 43 | Congenital blindness | Dewlap abscess | Pneumovagina |
| 44 | Conjunctivitis | Diaphragmatic Hernia | Post oestrus bleeding |
| 45 | Constipation | Dislocation of joint | Post partum metritis |
| 46 | Caprine pleuro- pneumonia | Docking | Post partum prolapse |
| 47 | Carbohydrate engorgement | Dog bite wound | Pre cervical torsion |
| 48 | Cured toe paralysis | Ear cleaning | Pre mature birth |
| 49 | Cypermethrin toxicity | Ear infection/otitis | Pre-cervical torsion |
| 50 | Cystitis | Empyema of guttural | Pregnancy Diagnosis |

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|----|---------------------------|-------------------------|-------------------------------------|
| 51 | Dehydration | Ephemeral fever/ dengue | Pre-partum prolapse |
| 52 | Demodex canis | Epulis | Pp vaginal prolapse |
| 53 | Demodicosis | Equine sarcoid | Pro oestrous condition |
| 54 | Dermatitis Mange/mite | Esophageal obstruction | Pro-Oestral bleeding |
| 55 | Deworming | Exophthalmia | Prolapse uterus intestine |
| 56 | Diarrhoea/loose motion | Eye tumour | Pseudo pregnancy |
| 57 | Diabetes mellitus | Eyeball rupture | Pyometra close/open |
| 58 | Dilated cardiac myopathy | Fallen from height | Rectal prolapse |
| 59 | Downer's Buffalo symptoms | Fibrosis | Recto vaginal fistula |
| 60 | Downer's cow syndrome | Foot Abscess | Repeat breeder |
| 61 | Drug hypersensitivity | Foreign body syndrome | Retain of Placenta |
| 62 | Eclampsia in bitch | Fracture | Salpingitis |
| 63 | Ectoparasites | Gastric foreign body | 2 nd degree Endometritis |
| 64 | Eczematous dermatitis | Gastric Volvulus (GDV) | 3 rd degree Endometritis |
| 65 | Ehrlichiosis | Gastropexy in lion | Trichomoniasis |
| 66 | Emphysema/ cellulitis | Gelding | True anoestrus |
| 67 | Encephalitis | Glaucoma | Tumour |
| 68 | Endoparasite | Granuloma | Tumour of right ovary |
| 69 | Enteritis | Haematoma | Un-developed genitalia |
| 70 | Epilepsy | haematoma | Urinary tract infection |
| 71 | Epipora | Head injury | Uterine adhesion |
| 72 | Epitaxis | Hip dysplasia | Uterine torsion |
| 73 | Eye infection | Hock dislocation | Vaginal prolapse |
| 74 | Facial paralysis | Hoof cutting | Vaginal swelling |
| 75 | Fasciolosis | Hoof exostosis | Vaginitis |
| 76 | Feather plucking in birds | Hoof overgrowth | Whelping /dystokia |
| 77 | Faecal examination | Horn avulsion | |
| 78 | Feline Eczema | Horn cancer | |
| 79 | Flea allergy dermatitis | Horn fracture | |
| 80 | Foot Mouth Disease | Horn injury | |
| 81 | Fungal dermatitis | Hydrocele | |

| | | |
|-----|-------------------------------|------------------------|
| 82 | Fungal skin infection | Hygroma |
| 83 | Gastric ulcer | Hyperplasia of vaginal |
| 84 | Gastritis | Inflammation/ Swelling |
| 85 | Gastritis | Injury |
| 86 | Gastro-enteritis | Inter-digital fibroma |
| 87 | General check up/soundness | Intestinal obstruction |
| 88 | Gingivitis | Intussusception |
| 89 | Glaucoma | Joint abscess |
| 90 | Goitre | Knuckling |
| 91 | Grain engorgement | Lacerated wound |
| 92 | Haemorrhagic gastro enteritis | Lameness |
| 93 | Haemorrhagic septicaemia | Laminitis |
| 94 | Hard milker | Leopard bite wound |
| 95 | Heat stress/Stroke | lingual fibrosis |
| 96 | Hematuria | Lion bite wound |
| 97 | Hepatitis | Lying prostrate |
| 98 | Hibernation | Lipoma |
| 99 | Hyphema | Maggot wound |
| 100 | Hyperthermia | Mammary gland tumour |
| 101 | Hypocalcaemia | Melanoma |
| 102 | Hypoglycaemia | Milk Fistula |
| 103 | Hypomagnesaemia | Motor paraplegia |
| 104 | Hypoproteinemia | Muscle trauma |
| 105 | Hypothermia | Nail trimming |
| 106 | Hypothyroidism | Nasal Granuloma |
| 107 | Hypovitaminosis | Nasal polyps |
| 108 | Icterus | Naval cord infection |
| 109 | Immunization | Navicular disease |
| 110 | Indigestion | Nerve injury |
| 111 | Infectious Canine Hepatitis | Obtipation |
| 112 | Insect bite | Odontoma |

| | | |
|-----|----------------------------|--------------------------|
| 113 | Insect bite allergy | Oesophageal diverticium. |
| 114 | Jaundice | Omarthritis |
| 115 | Juvenile cellulitis | Omasal impaction |
| 116 | Keratitis | Omphalophlebitis |
| 117 | Ketoacidosis | Oral papillomatosis |
| 118 | ketosis | Osselets |
| 119 | Lactic acidosis | Osteosarcoma |
| 120 | Leptospirosis | Ovarian tumour |
| 122 | Leucoma | Ovariohysterectomy |
| 123 | Lumber Nerve Paralysis | Over flexion /hock joint |
| 124 | Malena | Papilloma |
| 125 | Mammary inflammation | Papillomatous growth |
| 126 | Marek's disease | Paralysis |
| 127 | Mastitis | Paraphimosis |
| 128 | Milk fever | Paraplegia |
| 129 | Milk sample test | Paresis |
| 130 | Mite | Patellar desmotomy |
| 131 | Monday morning sickness | Perineal hernia |
| 132 | Muscular skeletal disorder | Perineal laceration |
| 133 | Myositis | Pericarditis |
| 134 | Nasal Granuloma | Persistent urachus |
| 135 | Navel ill | Per-vaginal hysterectomy |
| 136 | Nephritis | Pharyngeal obstruction |
| 137 | Nephritis | Preputial abscess |
| 138 | Obturator nerve paralysis | Preputial prolapse |
| 139 | Orchitis | Preputial stricture |
| 140 | Paraplegia | Proud Flesh in horses |
| 141 | Parasitism | Quittor |
| 142 | Parvo viral enteritis | Radial Nerve paralysis |
| 143 | Pericarditis | Radiography |
| 144 | Peritonitis | Recumbency position |

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|-----|----------------------------|----------------------------|
| 145 | Peste des petits ruminants | Ring bone |
| 146 | Pet Beautification | Rumenotomy |
| 147 | Petrochemical burn | Saddle gall |
| 148 | Pharyngitis | Salivary fistula |
| 149 | Pica | Septic wound |
| 150 | Piles | Sharp molar teeth |
| 151 | Piroplasmosis | Shell fracture in Tortoise |
| 152 | Pneumonia | Shifting lameness |
| 153 | Poisoning | Shoulder slip |
| 154 | Polioencephalomalacia | Sit fast |
| 155 | Post bite treatment | Spinal cord injury |
| 156 | Pot billed appearance | Splenic tumors |
| 157 | Proctitis | Spondylitis |
| 158 | Pruritis | Sprain |
| 159 | Pyoderma | Squamous cell carcinoma |
| 160 | Pyrexia/fever | String foreign body |
| 161 | Quidding | String halt |
| 162 | Rabies | Sub luxation of patella |
| 163 | Ranikhet disease | Sweeny |
| 164 | Recurrent bloat | Sweeny |
| 165 | Recurrent Tympany | Tail gangrene |
| 166 | Renal disorder | Tail laceration |
| 167 | Respiratory infection | Teat canal obstruction |
| 168 | Rhinitis | Teat fistula |
| 169 | Riboflavin deficiency | Teat laceration |
| 170 | Rickets | Teat laceration |
| 171 | Rumen impaction | Teat obstruction |
| 172 | Sarcoptes scabies | Tendon rupture |
| 173 | Scabies | Tendon stretching |
| 174 | Scrotal dermatitis | Tenocynovitis |
| 175 | Seborrhoeic dermatitis | Testicular hyperplasia |

| | | | |
|-----|--------------------------------|--------------------------|--|
| 176 | Septicaemia | Toe out | |
| 177 | shock | Torsion | |
| 178 | Simple indigestion | Torticollis | |
| 179 | Snake bite | Total eye damage | |
| 180 | Spider teat | Train accident trauma | |
| 181 | Stomatitis | Traumatic reticulo (TRP) | |
| 182 | Stress | Udder abscess | |
| 183 | Sub clinical mastitis | udder fibrosis | |
| 184 | Tape worm infestation | Umbilical abscess | |
| 185 | Tetanus | Umbilical hernia | |
| 186 | Theileriosis | Urethral calculi | |
| 187 | Tick | Urethral rupture | |
| 188 | Tick fever | Urinary Calculi | |
| 189 | Toxaemia | Urolithiasis | |
| 190 | Toxic puppy syndrome | Vaginal tumor | |
| 191 | Travelling sickness | Venereal Granuloma | |
| 192 | Trichuris | Ventral hernia | |
| 193 | Trypanosomiasis | Wart | |
| 194 | Tympany | Wing amputation | |
| 195 | Ulcerative stomatitis | Wing injury | |
| 196 | Unable to weight gain | Yolk gall | |
| 197 | Respiratory Tract infection | | |
| 198 | Urethritis | | |
| 199 | Urinary obstruction | | |
| 200 | Uveitis | | |
| 201 | Viral infection | | |
| 202 | Vision impairment | | |
| 203 | Vitamin b deficiency / malaria | | |
| 204 | Vitamin deficiency | | |
| 205 | Vomiting | | |
| 206 | Weak calf syndrome | | |

| | | | |
|-----|------------------|--|--|
| 207 | Weakness | | |
| 208 | Worm infestation | | |

Incidence percentage of animal’s treated for medical problems was sixty one points zero four percent (61.04 %) found more than surgical Twenty seven point seventeen percent (27.17) and gynaecological eleven point seventy nine percent. (Table no- 6)

Table 6: Percentage of disease category cases treated at Veterinary Hospital Junagadh Year 2014-15

| Disease category | Total | (%) |
|------------------|--------------|---------------|
| Medicine | 9711 | 61.04 |
| Surgery | 4323 | 27.17 |
| Gynecology | 1875 | 11.79 |
| Total | 15909 | 100.00 |

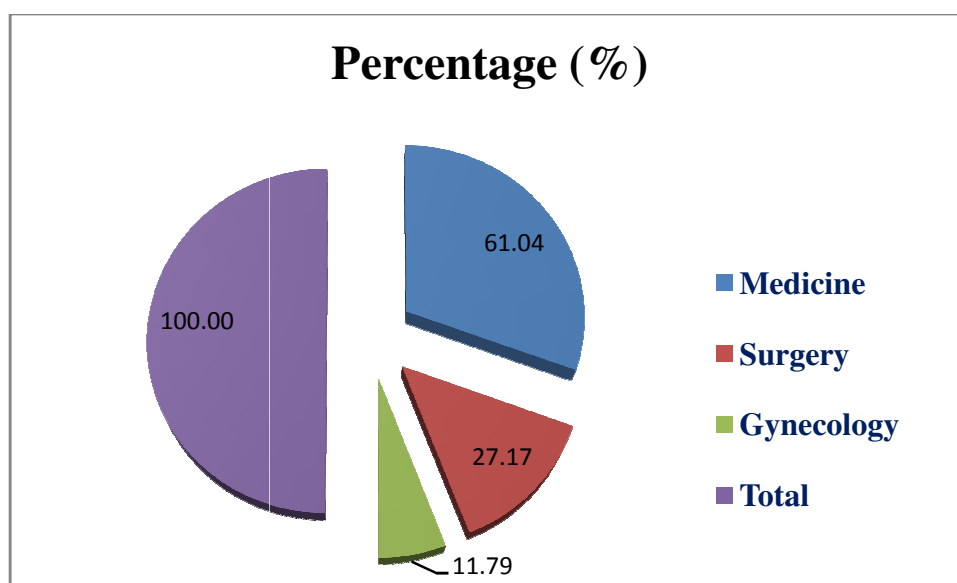


Fig 3: Percentage of disease category cases treated at Veterinary Hospital Junagadh Year 2014-15

Medical ailments are more than surgical and gynaecological in which incidences of prophylactic vaccination were found more followed by deworming, gastro-intestinal problems, others medical problems, ectoparasites, dermatitis, mastitis, tick infestation, metabolic disorders, and blood protozoa (Table 7).

Surgical problems are more than gynaecological but slightly less than medical ailments.

Incidences of different types of gastrointestinal problems and their surgical corrections are found maximum followed by others surgical conditions, various types of wounds, different types of fractures, elective sterilizations male / female, and horn cancers. (Table no- 7)

Gynaecological problems are less than medical and surgical conditions. Incidences of repeat breeders are major problem followed by anoestrus condition, A.I., different prolapse conditions, pregnancy diagnosis, other system related problems, dystokia, caesarian section and abortion (Table 7).

Table 7: Incidence of medicine, surgery, and gynaecology problems in animals visited at Junagadh veterinary hospital during year 2014-2015.

| Sr. No. | Medicine | | Surgery | | Gynaecology | |
|---------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|
| | | | | | | |
| 1 | Prophylactic Vaccine | 1321 | Wounds/Injury | 921 | AI | 381 |
| 2 | Deworming | 1201 | Fractures | 874 | Anoestrus | 552 |
| 3 | Gastro-enteritis problems | 1173 | Horn cancer | 53 | Repeat breeder | 661 |
| 4 | Metabolic disorders | 563 | Sterilization (M/F) | 96 | Prolapse | 82 |
| 5 | Skin/ Dermatitis | 1072 | GIT Surgeries | 1318 | Abortion | 25 |
| 6 | Ectoparasites | 1082 | Others | 1061 | Dystokia | 40 |
| 7 | Mastitis | 986 | Total | 4323 | Pregnancy Diagnosis | 55 |
| 8 | Blood protozoan diseases | 472 | | | Caesarean Section | 30 |
| 9 | Tick infestation | 723 | | | Others | 49 |
| 10 | Others | 1118 | | | Total | 1875 |
| | Total | 9711 | | | | |

Fig 4: Incidence of medical and health problems of patients visited at veterinary hospital at Junagadh during 2014-2015

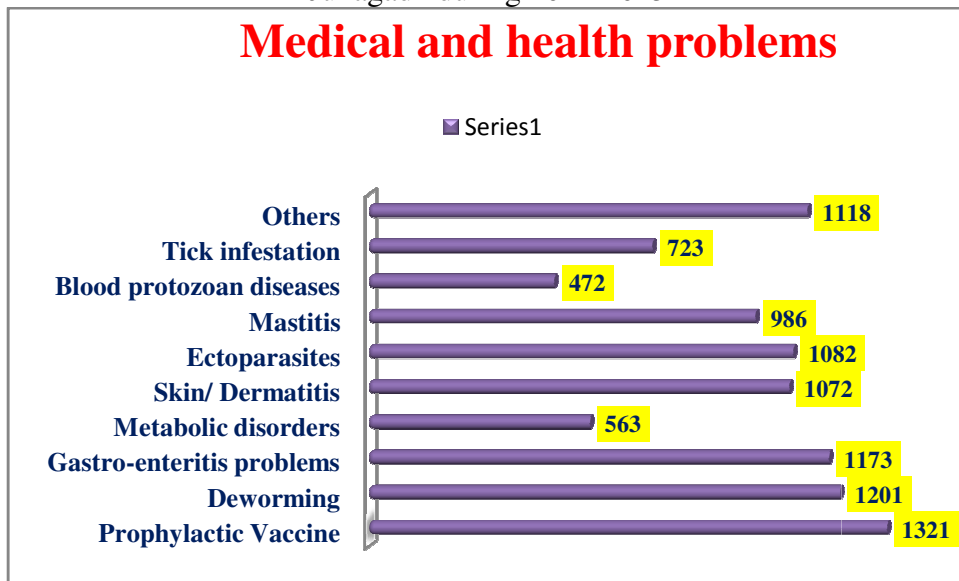


Fig 5: Incidence of surgical problems of patients visited at veterinary hospital at Junagadh during 2014-2015

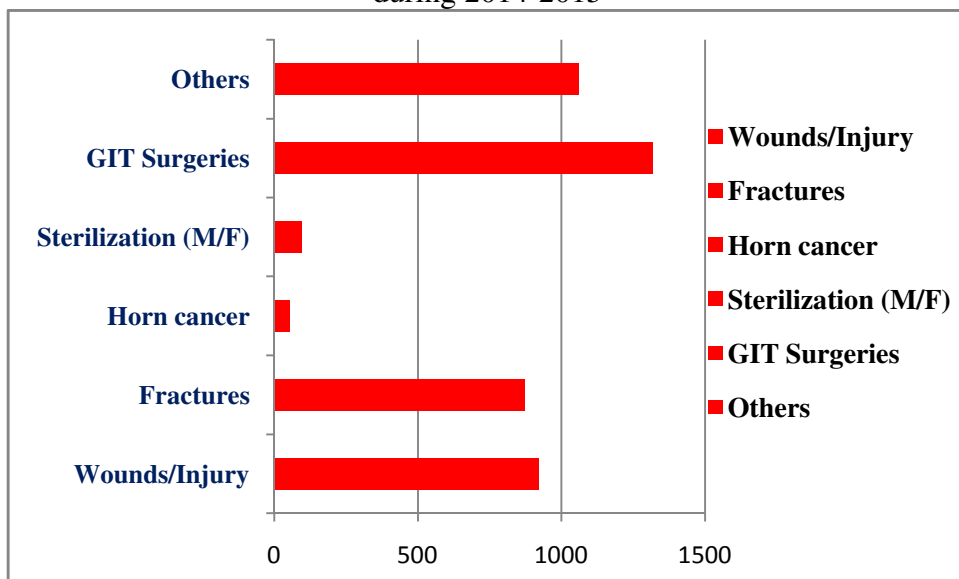
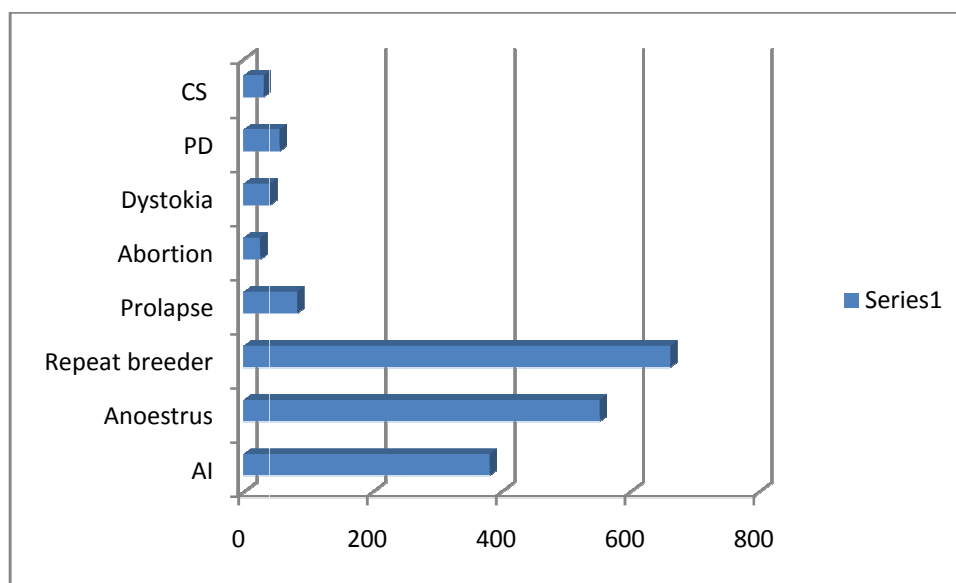


Fig 6: Incidence of Gynaecological problems of patients visited at veterinary Hospital at Junagadh during 2014-2015



Among the clinical cases recorded at TVCC, JAU, Junagadh, maximum number of cases are related to medicine (61.04 %) followed by surgery (27.17 %) and gynaecology (11.79 %) during the years 2014-2016 and species wise, cases registered for canine (35.02 %) cases were higher compared to cattle (20.99), buffalo (20.90), equine (11.22 %) and others (11.87 %).

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