The importance and field of usage of Ayurvedic/herbal forage-supplements and para-medicines in domestic animal husbandry

Mohanji Saxena
Managing Director
Ayurvet Limited
India
Health & management is the key...

Are these the only concern in current context.....

SOLUTION IS IN NATURE...

THE PRODUCTION BARRIERS

- Digestive Health
  - Liver Disorders
  - Rumen Dysfunction

- Udder Health
  - Mastitis

- Skin Integrity
  - Skin Affections

- Reproductive Health
  - Delayed Involution of Uterus
  - Retention of Placenta
  - Uterine Infection
  - Delayed First Post Parturient Heat

POULTRY PRODUCTION
Problems are many...

- Poor Skeletal Growth
- Mal-absorption
- Loose Droppings
- Inadequate Vaccination Response
- Suboptimal Growth Rate
- Poor Feed Utilization & FCR
- Stress
- Immuno Suppression

PIG FARMING
OBSTACLES TO PRODUCTION...

- Suboptimal Growth
- Weaning Diarrhoea
- Agalactia
- Metritis
- Mastitis

CARE & CURES FROM NATURE...
Food safety along with food security

SAFE MILK & MEAT
CONCERN FOR ALL

A CHALLENGE FOR THE NEW MILLENIUM
Biological machine
Poultry/Cattle/Pig

Input

Feed

Output

Meat/egg

Money In

Health index?

Money Out

BOTANICALS/HERBALS FOR PROFITABLE & SAFE POULTRY PRODUCTION

Health index?
HEALTH

IS NOT THE ABSENCE OF DISEASE OR ILLNESS

Dr. XYZ
MBBS, MD

This is to certify that Mr. ABC is free from any disease
HEALTH

IT IS THE PERFECT STATE OF COORDINATION AND BALANCE OF LIFE WITH THE OUTER ENVIRONMENT AND DIET
OBJECTIVES OF AYURVEDA

1. स्वस्थ्य स्वास्थ्य रक्षण सू ।
   To maintain the health of normal persons

2. आतुर्स्य रोग विमोक्षण सू ।
   To cure the disease in the patients
Stress & Immunosuppression

- Environment stress
- Management stress
- Performance stress
- Pathological stress

Suboptimal productivity
Disease incidences
Antistress & Immunomodulation herbs

**Phyllanthus emblica**
- **ANTIOXIDANT**
- **ANTISTRESS**
  - Indian Drugs, 1988, 25(5), 172-175.
- **ADAPTOGENIC**
- **IMMUNOMODULATOR**
  - Journal of Ethnopharm, 44(1), 55-60, 1994

**Withania somnifera**
- **ANTIOXIDANT**
- **ANTISTRESS**
- **ADAPTOGENIC**
- **IMMUNOMODULATOR**

**Ocimum sanctum**
- **MACROPHAGE ACTIVATION ACTIVITY**
  - Phytotherapy Research, 1993, 7, 107
- **ANTIOXIDANT**
  - J Phytopathol., 1989, 125, 238
  - Naturwissenschaften, 1972, 59, 651.
  - Cancer lett., 1987, 37, 293.

**Mangifera Indica**
- **IMMUNOMODULATORY**
  - J. Phytopathol., 1989, 125, 238
  - Naturwissenschaften, 1972, 59, 651.
  - Cancer lett., 1987, 37, 293.

To improve productivity & body defense
STRESROAK
BOOSTS UP THE BODY DEFENCE MECHANISM

Defence against “IBD”
- Antibody titre up by 21%
- 35% less mortality
Deptt. Pathology, Nagpur Vety. College, India

Heat Stress
- 19% more wt. gain
- Cortisol level down by 71%

Chicks from Parent Flock
- Hatchability up by 5.4 - 7.3%
World Poultry, 11 (16), 2000 : 50-51

Day Old Chicks
- Maternal antibody titre up by 59%
World Poultry, 11 (16), 2000 : 50-51

Vaccination Response
- 32% high antibody titre
- 100% protection against challenge from NCDV
Indian J. Poultry Sci. 34(1), 1999 : 38-41

Body Resistance
- Improved phagocytic index
Deptt. Microbiology, Vety. College, Hyderabad, India

DEPEND ON STRESROAK TO HIT THE PROFIT KILLER STRESS
Feed utilization

Optimal production

Rapid Growth

Better Feed Utilization

More weight gain/

Highest egg production
THE NATURAL WAY TO ENHANCE NUTRIENT UTILIZATION

Optimum Liver Function
- Good Body Weight
- Better liver protection during high demand period

Utilization Of Feed

Use Of Liver Tonics
The herbal ingredients with proven liver tonic action

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Andrographis paniculata</strong></td>
<td>Hepatoprotective, Cholagogue</td>
</tr>
<tr>
<td></td>
<td>Antihepatotoxic</td>
</tr>
<tr>
<td><strong>Phyllanthus niruri</strong></td>
<td>Hepatoprotective, Choleretic</td>
</tr>
<tr>
<td></td>
<td>Tonic, Stimulant, Immunomodulator</td>
</tr>
<tr>
<td><strong>Picrorhiza kurroa</strong></td>
<td>Cardiotonic, Hepatostimulant</td>
</tr>
<tr>
<td><strong>Tinospora cordifolia</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Terminalia arjuna</strong></td>
<td></td>
</tr>
</tbody>
</table>
FEED UTILIZATION

THE TO SUCCESS

Tone up Liver Function with...

Superliv

FOR BETTER GROWTH & PRODUCTION

Improvement in Feed Utilization...

Improvement in Growth Rate...

- 1.25% increase in protein utilization
- 1.4% increase in energy utilization
- 3.2% increase in fat utilization

- 4.25% increase in growth rate
- 5% improvement in feed conversion ratio

Central Avian Research Institute, Bareilly, India

THE NATURAL ANTIMICOTIC NEW GROWTH PROMOTER

AYURVET
Liver tonic
HERBAL GROWTH PROMOTER FOR POULTRY

• Improves liver function during growth period to sustain higher body wt. gain
• Sustains liver function over a period of time
• Protects liver from external & internal assaults
• Optimizes liver functions even during high energy demand during (peak production)

SUPPLEMENTATION WITH MULTIPLE BENEFITS
Mycotoxins menace

- Quality of feed
- Performance of animal
- Productivity
- Immunity

Potentially toxic, even in microquantities
Herbs

Azadirachta indica
Allium sativum
Solanum nigrum

• Mold

Toxin

Toxin production inhibition

Less or no toxin reaches intestine
Herbs
Andrographis paniculata
Azadirachta indica

- Neutralization of toxin
- Toxin is ineffective to produce harmful effect

Nil toxin in the body system
MYCOTOXIN MENACE
THE GLOBAL PROBLEM
The New Comprehensive Approach

Herbs for Mould Inhibition
Herbs for Inhibition of Mycotoxin Biosynthesis

Four Way Attack on Mycotoxin

HSCAS for Chemosorption
Herbs for Bioneutralization

THE COMPLETE SOLUTION FOR MYCOTOXIN CONTROL
Loose droppings in poultry/Weaning diarrhea in piglets

- Though occur at all stages
- Incidences more due to:
  - Dietary change (weaning)
  - Change of microbial load of the ration (weaning)
  - Peak production in (layer & breeder)

DEMANDS IMMEDIATE ATTENTION
GIT activity modulation by certain herbs

**Andrographis paniculata**
- Inhibition of enterotoxin induced secretion
- Interference with adenylate cyclase stimulation
- Non-specifically increase in intestinal absorption
  
  *Int. J. Crude Drug Research, 1990, 28(4), 273-283*

**Berberis aristata**
- Effective in controlling diarrhea in bacteriologically positive and negative patients
- Reduction in volume & duration of diarrhea, period of hydration and the convalescent period
  
  *Journal of Indian Medical Association, 1967, 48(1), 1-17*
GIT activity modulation by certain herbs

Punica granatum
- Stops castor oil induced diarrhea
- Decreases rate of flow of ingesta thus controlling diarrhea
  
  *Int. J. Pharmacognosy, 30, 1968, 289*

Holarrhena Antidysenterica
- Consessine, an alkaloid present in plant is responsible for treating chronic Amoebic dysentery

  *Int. J. Pharmacy 30, 1968: 289*
LOOSE DROPPINGS
For prompt and effective control depend on...

DIAROAK
A true GIT function modulator

Effective in multiple Etiology
Safe & Resistance Free
No harmful residues in produce

With added advantage of...

(MP) MUCOPOLYSACCHARIDE
- Captures toxins irreversibly
- Increases transit time of ingesta
- Adsorption & slow release of electrolytes nutrients

DIAROAK: THE TRUE NATURAL SYMPTOMATIC ANTIDIARRHOEAL

AYURVET
The Herbal Way: A sure but safe way to maximize the production
The scientific information on these Herbs are published in book Titled “Major herbs of Ayurveda”

Published by – Elsevier Health publication
Edited by – Elizabeth M. Williamson
Authored by – Dabur Research foundation & Dabur Ayurveda Limited
Please visit our website www.ayurvet.com for further technical information on use of these botanical adjuvant.

......THANK YOU

Our appreciation to the Organizers, World Ayurvedic congress, 2006, Budapest for providing us the presentation opportunity.

A presentation from – Ayurvet Limited India