Meat Processing by-products/ co-products

1. Blood

- Food (Sausages, pudding, cakes, biscuits)
- Non-food (fertilizer, animal feed, medicine etc.)

Medicinal and pharmaceutical usage of blood

- As nutrient for tissue culture media
- As ingredient in blood agar and peptones for microbial use
- As adhesive and film former in paper, plywood, fiber, plastic and glue industry
- As a spray adjuncts with insecticide and fungicides
- As stabilizers in cosmetic base formulation
- As foaming agent in fire extinguishers

2. Hide and skin

• Clothing, weapon, leather production, gelatin extraction

Gelatin extraction

• Gelatin is produced by controlled hydrolysis of a water insoluble collagen.

3. Bones

• Gelatin extraction, flavouring ingredients, medicine

Gelatin from bones

- Ossein is normally produced from bone for gelatin extraction
- Bones are pre heated at 80-90oC
- Washed several times to get clean
- Treated with HCl to remove minerals
- Dried
- Processed into gelatin

Medicinal uses of bones

• Specially processed xiphoid from the breast bone of young cattle is used by plastic surgeon to replace facial lbone

4. Glands and organs

• Food, fertilizer, medicine)

Medicinal uses of organs

• Brain, nervous system and spinal cord are a source of cholesterol which is raw material for the synthesis of Vitamin D and steroids.

5. Tallow and Lard

• Animal fat, sausage, emulsifier, margarine

6. Meat extract

• Flavouring

7. Viscera

• Sausage casing