|   | Drug               | Concentration | Dose             | Calculation* (using a 600kg cow)  | Withdrawal period                   | Complications,<br>Contraindications/ Comments    |
|---|--------------------|---------------|------------------|---|-------------------------------------|--|
| Premedication   | Acepromazine       | U             | 0.1mg/kg<br>(IM) | $(600 \text{kg} \times 0.1 \text{mg/kg}) \div 10 \text{mg/ml} = 6 \text{ml}$  | 7 days -meat<br>48 hours-milk       | Extra-label use<br>Sedation                      |
|   | Meloxicam          | 5mg/ml        | 0.5mg/kg         | $(600 \text{kg} \times 0.5 \text{mg/kg}) \div 5 \text{mg/ml} = 60 \text{ml}$  | 15 days- meat<br>120 hours-<br>milk | Extra-label use<br>Analgesic and NSAID           |
|   | Flunixin meglumine | 50mg/ml       | 1-2.2mg/kg       | $(600 \text{kg} \times 2.2 \text{mg/kg}) \div 50 \text{mg/ml} = 26.4 \text{ml}$   | 21 days- meat                       | Not for use in dairy cows<br>Analgesic and NSAID |
|   | Butorphanol        | 2mg/ml        | 0.04 mg/kg       | $(600 \text{kg} \times 0.04 \text{mg/kg}) \div 2 \text{mg/ml} = 12 \text{ml}$   | 5 days- meat<br>3 days- milk        | Extra-label use<br>NSAID and analgesia           |
|   | Penstrep           | · ·           | 22,000<br>IU/kg  | $(500 \text{kg} \times 200,000 \text{IU}) \div 22,000 \text{IU/kg} = 55 \text{mls}$   | 21 days- meat<br>3 days- milk       | Broad spectrum Antibiotics                       |
| Induction and<br>Maintenance of<br>General<br>anaesthesia | Ketamine           | 100mg/ml      | 1.2 mg/kg        | Loading dose= $(600 \text{kg} \times 1.2 \text{mg/kg}) \div 100 \text{mg/ml} =$<br>7.2ml<br>CRI= $(1.2 \times 1000) \div 5 = 240 \text{ml}$ | 3 days- milk<br>3 days- meat        | Analgesia  |
|   | Lidocaine          | 20mg/ml       | 2mg/kg           | Loading dose= $(600 \text{kg} \times 2 \text{mg/kg}) \div 20 \text{mg/ml} =$<br>60ml<br>CRI= $(2 \times 1000) \div 5 = 400 \text{ml}$       |                                     | Analgesia  |
|   | Xylazine           | 20 mg/ml      | 00               | Loading dose= $(600 \text{kg} \times 0.01 \text{mg/kg}) \div 20 \text{mg/ml} =$<br>0.3ml<br>CRI= $(0.01 \times 1000) \div 5 = 2 \text{ml}$  |                                     | Analgesia, muscle relaxant,<br>sedative          |

| Recovery /<br>Post-Op | Flunixin meglumine | 50mg/ml | 1-2.2mg/kg                          | $(600 \text{kg} \times 2.2 \text{mg/kg}) \div 50 \text{mg/ml} = 26.4 \text{ml}$ | 21 days- meat | Not for use in dairy cows                |
|-----------------------|--------------------|---------|-------------------------------------|---|---------------|--|
| Reversal Agent        | Tolazoline         | -       | 4 × xylazine<br>dose =<br>0.04mg/kg |   | -             | xylazine reversal<br>Analgesic and NSAID |