The OIE Working Group on Animal Production Food Safety (hereinafter referred as the Working Group) met for the fourth time at the OIE Headquarters on 21-23 March 2005.

The members of the Working Group and other participants are listed at Appendix A; apologies were received from Dr H. Coulibaly and Dr K. Dodds. The Agenda adopted is given at Appendix B. The report of the previous meeting of the Working Group was adopted unchanged.

The Director General of the OIE, Dr B. Vallat, welcomed all members and indicated that he considered that the meeting was an important opportunity for the Working Group to note its accomplishments, to review its terms of reference and modus operandi, and to prioritise its future activities. Dr Vallat recalled the OIE’s mandate on animal production food safety under the OIE’s Third Strategic Plan. An important part of this mandate was involvement in the work of various committees of the Codex Alimentarius Commission (hereinafter referred as Codex) which had resulted in OIE input into the Codex Committee on General Principles (CCGP) and the Codex Committee on Residues of Veterinary Drugs in Foods (CCRVDF). Dr Vallat also noted the very good outcomes of the Codex Committee on Meat Hygiene (CCMH) as a result of collaboration between the OIE and Codex.

Dr Vallat advised the Working Group that Dr A. McKenzie had offered to step down as chair and that Dr S. Slorach had accepted his request to chair this meeting. Drs Vallat and Slorach noted the excellent work of Dr McKenzie in putting the work programme of the Working Group on a firm footing.

Dr Vallat explained the OIE’s policies regarding the participation of the private sector in the work of the OIE in that the Working Group is able to invite a expert from any international organisation to discuss a particular issue on the Working Group’s agenda. For this meeting, he advised that he had approved a request from the IDF that one of its experts discuss its work on good dairy farming practices.
Appendix XXXVI (contd)

Update on OIE and Codex activities

Dr A. Thiermann, the President of the Terrestrial Animals Health Standards Commission, reported on OIE activities in various Codex committees (including the CCGP) and noted the excellent outcomes of the final meeting of the CCMH.

Regarding the CCMH, Dr McKenzie reported that the mandate of the committee had been completed by forwarding (at step 8 of the Codex procedure) a draft Code of Hygienic Practice for Meat, and that the Committee was now in abeyance. He noted that the draft Code has consolidated several existing documents into a single Code, following a similar approach as had been taken for the draft Code of Practice for Fish and Fishery Products. Dr Randell noted how the final CCMH documents showed how cooperation between the two organisations could result in excellent outcomes. He emphasised the need for close coordination in the transition from production to processing.

The Chair reported on the work of various Codex committees, including discussions on the relationship between Codex and other international organisations. Regarding animal feeding, a Code of Practice had been adopted, but Codex Member Countries had been asked for their opinion as to whether further work by Codex was required and, if so, how that work should be carried out; the OIE had provided comments on the issue.

The Chair noted that the Codex Alimentarius Commission had reiterated its interest in continuing cooperation with the OIE at both headquarters and national levels, but that there was still no formal agreement between the two organisations. He indicated that the thinking in Codex was that cooperation with the OIE should be done throughout the standard development process, including the initial phase of the drafting of texts, as well as enhanced mutual information exchange.

Dr K. Miyagishima reported on the meeting of the Codex Committee on Food Hygiene (CCFH) held the previous week. The meeting’s agenda included the continuation of work on the draft revision of the Recommended International Code of Hygienic Practice for Foods for Infants and Children and on the Draft Principles and Guidelines for the Conduct of Microbiological Risk Management, progressing work on the draft Guidelines on the Application of General Principles of Food Hygiene to the Control of *Listeria monocytogenes* in Ready-to-eat Foods, the draft revision of the Code of Hygienic Practice for Egg and Egg Products and the discussion paper on the Guidelines for the Application of the General Principles of Food Hygiene to the Risk-Based Control of *Salmonella* spp. in Poultry.

He also informed the Working Group on the activities of other Codex Committees:

1. the Codex Committee on Fish and Fishery Products (CCFFP) had finalised the draft Code of Practice for Fish and Fishery Products (Aquaculture and other sections);

2. the Codex Committee on Food Import and Export Inspection and Certification Systems (CCFICS) had advanced the draft Principles for Electronic Certification to Step 8 and agreed on the need to develop Principles for the Application of Traceability/Product Tracing through a Working Group.

Dr Miyagishima also updated the Working Group on the revised Codex procedure for the consideration of new work. Any proposal for new work needed to be presented in the form of a proposal document, with priority criteria so to ensure that the work programme was well planned. The Codex committee structure was also being examined by the Commission.

Dr Economides reported on a food safety meeting held in Amman and noted the evident lack of cooperation between the veterinary services and the other competent authorities. He was concerned to ensure that standards being developed for hazards relevant for public health but not causing disease in animals, and for traceability systems involved all the relevant authorities.
Modus operandi of the Working Group

Dr McKenzie spoke to his paper on the outputs to date of the OIE Animal Production Food Safety Working Group. He recalled the history of the Working Group and noted its perceived lack of progress. He considered that there needed to be a better understanding within the Working Group of the mandate and role of the Working Group and of its priorities. He thought that Codex members would see the work of the OIE on pathogens of interest to food safety as being the work of Codex e.g. on BSE. He also discussed the OIE advocacy of the veterinary profession as being different from the Codex approach which was not generally to nominate specific professions. He considered that the Working Group needed to be at the policy end of the spectrum and advisory regarding OIE input into the work of Codex committees.

Issues discussed by the Working Group included:

1. the Working Group’s advisory role to the OIE Director-General on various levels:
   a) as a policy group on strategy;
   b) as a priority-setting group for technical work,
   c) overseeing the work of ad hoc groups convened to examine specific technical issues, and making recommendations to the Terrestrial Code Commission or other relevant Commission;

2. members’ participation in Working Group meetings in their personal capacity as experts, not as representatives of any group or organisation; in this regard, the Working Group noted that formal comments from Codex would need to come from the Codex Secretariat;

3. the need to clarify the roles of OIE and Codex, and to integrate the goals of the two organisations;

4. transparency;

5. membership – the Working Group noted the need for it to remain small to maximise efficiency but recognised that the breadth of its mandate meant that the interest of a broad range of organisations in its deliberations may need to be addressed; Dr Vallat raised the desirability of including in the membership organisations with which the OIE has an agreement and a broad regional representation;

6. the desirability of technical experts participating in its meetings, with their attendance being on the basis of an identified need by the Working Group for a specific issue.

Dr Schlundt welcomed the important step that the OIE had taken regarding this mandate but he considered that, to assist cooperation and coordination with Codex, the Working Group had to emphasise the importance of integrating the goals of each organisation, using common terms and coordinating priorities and standards development timetables. This was particularly the case as veterinary services were increasingly being integrated into food safety authorities.

The Working Group agreed a revised modus operandi based on the original terms of reference (attached at Appendix C).

Anti-microbial resistance

The Working Group noted that two OIE/FAO/WHO expert meetings held in Geneva and Oslo had recommended the creation of a Codex/OIE joint task force on antimicrobial resistance. While there had been no consensus in the Codex Committee on General Principles for developing procedures necessary for establishing such a joint Task Force, possibilities still existed for creating a Codex Task Force that could benefit from OIE expertise. However, the Codex Executive Committee had not yet decided on its approach to the issue. Dr Vallat stressed the importance of the two organisations working towards a common scientific position.
Appendix XXXVI (contd)

The Working Group noted the importance of the issue for trade in animal products due to the risks to public health, and encouraged Member Countries and relevant organisations to provide comments to the OIE on the proposed revisions to the Code Appendices on ‘Guidelines for the Responsible and Prudent Use of Antimicrobial Agents in Veterinary Medicine’ and ‘Risk Assessment for Antimicrobial Resistance Arising from the Use of Antimicrobials in Animals’.

The Working Group encouraged the OIE Aquatic Animal Health Standards Commission to consider the inclusion of antimicrobial resistance in its work programme.

The Working Group encouraged the FAO and WHO to take into account the OIE work when developing guidelines on risk assessment for antimicrobial resistance. The Working Group concurred with the proposed OIE definition for antimicrobials and noted the benefits of a harmonised definition.

The Working Group noted the work on critically important antimicrobials underway in the OIE and WHO, and recommended that the organisations work together to ensure a coordinated list.

Good farming practices

An expert from the International Dairy Federation (IDF) addressed the Working Group on the IDF’s views on the Working Group paper on good farming practices. The IDF comments, as well as those from the European Union and the Codex Secretariat, had been incorporated into the text for examination by the Working Group. The IDF considered that the guidelines were very generic and that it may be useful to break the guidelines into more specific sections.

The Working Group requested the OIE Headquarters to redraft the document in line with the comments received, and taking into account the draft FAO paper on Good Agricultural Practices, the Codex Recommended Code of Practice on Good Animal Feeding, the Codex draft Code of Hygienic Practice for Meat and the IDF Guide to Good Dairy Farming Practices.

Role and functionality of veterinary services

Dr Vallat recalled that the original idea for this paper was that it would be advisory for those countries where the veterinary services had both public and animal health objectives (estimated to be at least at 70% of the OIE Member Countries). He emphasised the problems caused by uncoordinated representation from Member Countries in Codex and OIE fora to the harmonisation of the work of the two Organisations. Member Countries were asking the OIE to help them reform their administrations to ensure effective links between animal health and public health, and this document will assist that process.

The Chair noted that Codex had not produced a similar document but that some minor changes could be made to accommodate Codex issues.

The Working Group requested the OIE Headquarters to redraft the document in accordance with comments received, and circulate it among Working Group members before the next meeting, with a view to a final position in the Terrestrial Code.

Certification

Dr Vallat indicated that the OIE was interested in working with Codex on combined certificates when this was possible and asked the Working Group to recommend a suitable way of advancing the work.

Some key points were identified by the Working Group: that OIE and Codex should agree on a list of minimum requirements for a certificate, that the certificate should be applicable regardless of which Competent Authority was making the certification (e.g. veterinary services or public health services), and that an electronic certification system should be further developed.
Appendix XXXVI (contd)

The Working Group recommended that the OIE provide its input to the ongoing work by CCFICS, including participation in the working group established by CCFICS on the revision of the Codex Guidelines for Generic Certificate Formats and the Production and Issuance of Certificates, outlining its proposal for a combined certificate.

**Control of hazards of public health and animal health importance through ante- and post-mortem meat inspection**

Dr McKenzie spoke to a revised version of this paper which is intended to provide guidelines for veterinary services. Comments received had been addressed and other improvements made to the document which was agreed as a Working Group document. The document is attached as Appendix D.

The Working Group requested the OIE Headquarters to:

1. finalise the document in line with the discussion, with a view to placing it on the OIE Website as an information document;
2. refine and reduce the document, including links to the Codex Meat Hygiene Code, for circulation to the Working Group members, with a view to a final position in the Terrestrial Code.

**Fourth OIE Strategic Plan**

The Working Group discussed the new proposed OIE Strategic Plan and welcomed the increased emphasis on combating zoonoses in the work of the OIE, and the strengthening of the scientific basis for OIE standards. It also noted the emphasis on communication and coordination with other international organisations, especially Codex and WHO.

**Bovine tuberculosis**

The Working Group reviewed the work of the OIE ad hoc group in revising the current Terrestrial Code chapter on bovine tuberculosis, and welcomed the new emphasis placed on the food safety aspects of the disease. The Working Group recalled that it had initiated the review of this chapter and discussed the criteria it should use to review such technical work in future, for example does it adequately address the food safety issues and does it do so in a manner which meets OIE and Codex objectives?

The Working Group recommended that Articles 2.3.3.8 and 2.3.3.9 refer to the relevant Codex Codes of Practice covering meat and meat products, and that there be a differentiation between measures recommended for infected and free countries/zones/herds (as has been done in the article dealing with milk and milk products).

The Working Group also noted that an international sanitary certificate could serve, instead of a veterinary certificate, for products for human consumption.

The Working Group recommended that the Terrestrial Code chapters on brucellosis be revised through a risk-based approach for the food safety aspects and taking into account the above comments.

**Revision of the OIE list of diseases**

The Working Group discussed the principles underpinning the new OIE single list of terrestrial diseases, and the criteria used for determining whether a disease would be listed. The Working Group encouraged the OIE in its work and recommended that the OIE continue to screen against the listed criteria significant human pathogens associated with foodborne illness, eg *Salmonella* spp, for inclusion in the list. The Working Group was of the view that the text in Article 2.1.1.1 should be better aligned with the criteria in the flowchart.
The Working Group believed that, in reviewing the criteria for the inclusion of zoonoses for compulsory notification by Member Countries, the OIE should take account of all risk management options including alternatives to listing, eg for some human pathogens associated with foodborne illness. If other risk management options prove to be more effective and less trade restrictive, they should be chosen; these risk management options could include measures at the production or processing stages of the food chain, and may lead to additional chapters in appropriate OIE and/or Codex codes. The Working Group recommended that the OIE develop alternative methods for managing such food borne pathogens for which compulsory reporting may not be the most appropriate risk management strategy.

In response to the question posed by the OIE ad hoc group on disease notification regarding *listeriosis*, the Working Group believed that, for that disease, listing was not an appropriate risk management option, and noted ongoing Codex work on the safety of food products.

The Working Group was informed of the upcoming meeting of the OIE ad hoc group on emerging zoonoses and requested to be informed on its outcomes, especially if those addressed foodborne zoonoses.

**Animal identification and traceability**

Mme Croyère (a stagiaire in the OIE International Trade Department) reported to the Working Group on the initial work underway in OIE Headquarters on animal identification and traceability. The Working Group noted that the Codex Code of Hygienic Practice for Meat included references to traceability. Dr Miyagishima advised that traceability was being referenced in several Codex texts as a tool for managing risks - Codex had agreed on a definition of traceability/product tracing for its purposes, and CCFICS was now developing guidelines on traceability for Member Countries through a working group.

The Working Group noted the relevance of traceability for both animal health and food safety - among the reasons for progressing work on animal identification and traceability were the benefits in having the ability to trace forward and backwards within the food continuum.

The Working Group recommended that the OIE coordinate its work with that of Codex on traceability, including at the working level through the OIE ad hoc group and CCFICS. The Working Group requested that the OIE include information on its work in its report to the Codex Commission.

The Working Group reviewed the draft terms of reference of the ad hoc group and suggested some enhancements.

**Work Programme**

The Working Group’s work programme, as revised at the meeting, is attached at Appendix E.

**Next meeting**

The Working Group decided that it would aim to meet between mid-November and mid-December 2005 in order to take advantage of meetings of ad hoc groups and the January 2006 meeting of the Terrestrial Code Commission.
### MEETING OF THE OIE WORKING GROUP ON ANIMAL PRODUCTION FOOD SAFETY

**Paris, 21-23 March 2005**

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**List of participants**

### MEMBERS OF THE OIE WORKING GROUP

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution and Address</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Stuart Slorach (chair)</td>
<td>President</td>
<td><a href="mailto:stsl@slv.se">stsl@slv.se</a></td>
</tr>
<tr>
<td>Codex Alimentarius Commission</td>
<td>National Food Administration</td>
<td></td>
</tr>
<tr>
<td>Box 622</td>
<td>SE-751 26 Uppsala</td>
<td>Tel: 46 18 175594</td>
</tr>
<tr>
<td>SWEDEN</td>
<td>Fax: 46 18 105848</td>
<td>Email: <a href="mailto:stsl@slv.se">stsl@slv.se</a></td>
</tr>
<tr>
<td>Dr Hélène Coulibaly (absent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06 BP 1137</td>
<td></td>
<td></td>
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<tr>
<td>Abidjan 06</td>
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<tr>
<td>CÔTE D’IVOIRE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tel: 225 2241 3265</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-mail: <a href="mailto:Incoulibaly@hotmail.com">Incoulibaly@hotmail.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Pavlos Economides</td>
<td>Aesop 35 Aglantzia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nicosia 2113</td>
<td></td>
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<tr>
<td></td>
<td>CYPRUs</td>
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<tr>
<td></td>
<td>Tel: 357-22 33 23 66</td>
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<tr>
<td></td>
<td>Mobile: 357- 99 62 88 42</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fax: 357-22 87 66 42</td>
<td></td>
</tr>
<tr>
<td>Dr Kazuaki Miyagishima</td>
<td>Viale delle Terme di Caracalla 00100 Rome</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td>ITALY</td>
<td></td>
</tr>
<tr>
<td>Codex Alimentarius Commission</td>
<td>Joint FAO/WHO Food Standards Programme</td>
<td></td>
</tr>
<tr>
<td>Dr Andrew McKenzie</td>
<td>Executive Director</td>
<td></td>
</tr>
<tr>
<td>New Zealand Food Safety Authority</td>
<td>68-86 Jervois Quay</td>
<td></td>
</tr>
<tr>
<td>PO Box 2835</td>
<td>Wellington</td>
<td></td>
</tr>
<tr>
<td>NEW ZEALAND</td>
<td>Tel.  64-4 463 2502</td>
<td></td>
</tr>
<tr>
<td>Fax 64-4 463 2501</td>
<td>Email <a href="mailto:andrew.mckenzie@nzfsa.govt.nz">andrew.mckenzie@nzfsa.govt.nz</a></td>
<td></td>
</tr>
<tr>
<td>Dr Karen Dodds (absent)</td>
<td>A/Associate Assistant Deputy Minister</td>
<td></td>
</tr>
<tr>
<td>Dr Isabelle Chmitelin (absent)</td>
<td></td>
<td></td>
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<tr>
<td>Dr Jørgen Schlundt</td>
<td>Director</td>
<td></td>
</tr>
<tr>
<td>WHO Food Safety Department</td>
<td>20 Avenue Appia</td>
<td></td>
</tr>
<tr>
<td>CH-1211 Geneva 27</td>
<td>Tel: +33-1 44 15 18 69</td>
<td></td>
</tr>
<tr>
<td>SWITZERLAND</td>
<td>Fax: +33-1 42 67 09 87</td>
<td></td>
</tr>
<tr>
<td>Tel: 41 22 791 3582</td>
<td>Email: <a href="mailto:schlundtj@who.int">schlundtj@who.int</a></td>
<td></td>
</tr>
<tr>
<td>Dr Alan Randell</td>
<td>Via Alessandro Poerio, 59</td>
<td></td>
</tr>
<tr>
<td>Dr Isabelle Chmitelin (absent)</td>
<td></td>
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<tr>
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<td>Tel: Fax:</td>
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</tr>
<tr>
<td>Dr Elisabeth Vindel</td>
<td>Head of Food Safety Unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Centre National Interprofessionnel de l’Économie Laitière</td>
<td></td>
</tr>
<tr>
<td></td>
<td>42 rue de Chateaudun</td>
<td></td>
</tr>
<tr>
<td></td>
<td>75314 Paris Cedex 09</td>
<td></td>
</tr>
<tr>
<td>OTHER PARTICIPANTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Alex Thiermann</td>
<td>President of the OIE Terrestrial Animal Health Standards Commission</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12 rue de Prony</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paris 75017</td>
<td></td>
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<tr>
<td></td>
<td>FRANCE</td>
<td></td>
</tr>
<tr>
<td>Tel: +33-1 44 15 18 69</td>
<td>Fax: +33-1 42 67 09 87</td>
<td></td>
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<tr>
<td>Dr Elisabeth Vindel</td>
<td>Head of Food Safety Unit</td>
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<td>75314 Paris Cedex 09</td>
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<tr>
<td></td>
<td>Tel.: +33-1 49 70 71 09</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fax.: +33-1 42 80 63 45</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:evindel@cnil.com">evindel@cnil.com</a></td>
<td></td>
</tr>
</tbody>
</table>
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Appendix A (contd)

OIE HEADQUARTERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Bernard Vallat</td>
<td>Director General</td>
<td>33-01 44 15 18 88</td>
<td>33-01 42 67 09 87</td>
<td><a href="mailto:oie@oie.int">oie@oie.int</a></td>
</tr>
<tr>
<td>Dr David Wilson</td>
<td>Head</td>
<td>33-01 4415 1880</td>
<td>33-01 4267 0987</td>
<td><a href="mailto:d.wilson@oie.int">d.wilson@oie.int</a></td>
</tr>
<tr>
<td>Dr Willem Droppers</td>
<td>Charge de Mission</td>
<td>33-01 4415 1888</td>
<td>33-01 4267 0987</td>
<td><a href="mailto:w.droppers@oie.int">w.droppers@oie.int</a></td>
</tr>
<tr>
<td>Dr Francesco Berlingieri</td>
<td>Deputy</td>
<td>33 1 4415 1888</td>
<td>33-01 4267 0987</td>
<td><a href="mailto:f.berlingieri@oie.int">f.berlingieri@oie.int</a></td>
</tr>
<tr>
<td>Ms Adeline Croyère</td>
<td>Trainee</td>
<td>33-01 44 15 18 88</td>
<td>33-01 42 67 09 87</td>
<td><a href="mailto:a.croyere@oie.int">a.croyere@oie.int</a></td>
</tr>
<tr>
<td>Ms Anne-Yseult Poletto</td>
<td>Trainee</td>
<td>33-01 44 15 18 88</td>
<td>33-01 42 67 09 87</td>
<td><a href="mailto:ay.poletto@oie.int">ay.poletto@oie.int</a></td>
</tr>
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MEETING OF THE OIE ANIMAL PRODUCTION FOOD SAFETY WORKING GROUP
Paris, 21-23 March 2005

Adopted Agenda

1. Welcome from the OIE Director General
2. Adoption of the Agenda
3. Report of the previous Working Group Meeting
4. Update on OIE/ Codex Alimentarius activities
5. Modus operandi of the Working Group
   5.1. Chair’s discussion paper on the outputs of the OIE APFSWG
   5.2. Fourth OIE Strategic Plan
6. Role and Functionality of Veterinary Services in Food Safety throughout the Food Chain
   6.1. Revision and endorsement
   6.2. Harmonisation of Codex and OIE certificates in order to ensure both animal health and public health issues are addressed
   7.1. Comments received from Member Countries - revision and endorsement
8. Guide to Good Farming Practices
   8.1. Comments received from Member Countries/Organisations - revision and endorsement
   8.2. Harmonisation with the Codex document ‘RECOMMENDED CODE OF PRACTICE ON GOOD ANIMAL FEEDING’
9. Animal Identification and Traceability
   9.1. Region by region analysis of animal identification systems.
   9.2. Establishment of terms of reference for an OIE ad hoc Group.
10. Antimicrobial Resistance

10.1. Revised Appendix 3.9.4. ‘RISK ASSESSMENT FOR ANTIMICROBIAL RESISTANCE ARISING FROM THE USE OF ANTIMICROBIALS IN ANIMALS’ – for endorsement

10.2. Revised Appendix 3.9.3. ‘GUIDELINES FOR THE RESPONSIBLE AND PRUDENT USE OF ANTIMICROBIAL AGENTS IN VETERINARY MEDICINE’ – for endorsement


11.1. Revised Chapter 2.3.3. ‘BOVINE TUBERCULOSIS’ – for endorsement

12. Revision of the OIE list of diseases

12.1. Criteria for food borne pathogens

12.2. OIE ad hoc Group on Emerging Zoonoses

13. Work Programme for 2005

14. Resolutions and Recommendations for the 73rd OIE General Session

15. Any other business

16. Next Meeting
MEETING OF THE OIE ANIMAL PRODUCTION FOOD SAFETY WORKING GROUP
Paris, 21-23 March 2005

Modus operandi

In accordance with the XV Resolution of the 70th OIE General Session, the terms of reference for the Animal Production Food Safety Working Group include:

- consideration of all food-borne hazards arising from animals before slaughter,
- a primary focus on food safety measures applicable at the farm level,
- consideration of food safety measures applicable elsewhere, for example during animal transport and harvesting of wild animals for food,
- work criteria and priorities that take into account global food safety priorities and current work programmes of relevant international organisations, especially the CAC,
- the taking into account of the food safety standards developed and under development by relevant international organisations, especially the CAC,
- support for the work of the OIE Specialist Commissions on pre-slaughter animal production food safety,
- advising the Director-General of the OIE on the implementation of the OIE strategy regarding:
  - establishing Ad hoc Groups to address specific tasks,
  - linking at the working level with the CAC, FAO and WHO,
  - ensuring pre-slaughter animal production food safety is integrated in Specialist Commissions’ and Ad hoc Groups’ activities,
  - providing technical input into the review of OIE disease notification criteria,
  - enhancing communications, information sharing and consultation.

Within these terms of reference, the Working Group saw its role as:

1. providing advice to the OIE Director-General on policy and strategic issues relating to the OIE’s work on animal production food safety which has the goal of ‘reducing food borne risks to human health by preventing, eliminating or controlling hazards arising from animals prior to primary processing of animals and animal products’. The priorities were identified as:

- identifying and addressing gaps, contradictions, areas where harmonisation is necessary and duplications in the work of the OIE and other international/intergovernmental organisations (in particular Codex) involved in food safety standards,
Appendix XXXVI (contd)

Appendix C (contd)

• strengthening the relationship to other relevant standard-setting organisations (in particular Codex), through enhanced information exchange,

• improving coordination between competent authorities with animal health and food safety responsibilities at the national and regional levels,

• recommending a work programme to address the mandate of the OIE on animal production food safety;

2 acting in a steering group capacity, as required by the OIE Director-General, regarding the work of OIE expert groups:

• advising the Director-General on membership, scope and terms of reference for expert groups,

• reviewing texts arising from relevant expert groups for consideration by the relevant Specialist Commissions.

Intended outputs addressed to the Director-General and the relevant Specialist Commissions include:

• discussion papers

• policy documents

• reports
Control of hazards of public health and animal health importance through ante- and post-mortem meat inspection

Working Group on Animal Production Food Safety

Background

Food-borne disease and zoonoses are generally recognised as important public health problems and important causes of decreased economic productivity in both developed and less developed countries. Similarly, transmission of hazards of animal health importance via the food chain and associated by-products can result in highly significant economic loss in animal populations. Inspection of slaughter animals can also provide a valuable contribution to surveillance for specified diseases of animal health importance particularly exotic disease. Control and/or reduction of hazards of public health and animal health importance by ante- and post-mortem meat inspection is a core responsibility for government veterinary services.

Recent government policy changes in many countries reflect the demand for significantly increased resources to protect public health against food-borne diseases of animal origin. Along with this, rapidly increasing trade in food at both the local and international level is resulting in increased attention to biosecurity and the potential for transmission of diseases of animal health importance via the food and feed chain. In a global regulatory environment that is more and more intent on placing responsibility on industry for ensuring “biosecurity” in relation to human and animal health, government veterinary services must exercise these responsibilities in a cost-effective, independent, transparent and interdisciplinary manner.

Scope of this paper

Increased collaboration between the World Organisation for Animal Health (OIE) and the Codex Alimentarius Commission (CAC) in respect of food standards (see below) has led to the formation by OIE of the Animal Production Food Safety Working Group (APFS WG). It is the intent of OIE that the work of the APFS WG will result in the development of recommendations on several aspects of veterinary involvement in food safety. This document on ante- and post-mortem meat inspection controls provides a discussion paper on which to base future development of OIE guidelines. It is complimentary to a discussion paper on "The role and functionality of Veterinary Services in food safety throughout the food chain" that has been circulated to OIE Member Countries and has been discussed at the OIE General Session in May 2004.

International standards

International organisations involved with public and animal health include the World Trade Organization (WTO), Food and Agriculture Organization (FAO), and World Health Organisation (WHO). At the sector level, the international organisations developing "standards" (standards, guidelines and related texts) are the CAC and the OIE.

CAC

The CAC develops international food standards, guidelines and related texts (hereafter referred to collectively as "standards"). Standards concerned with food safety should be implemented within a generic framework for managing food-borne risks and should “recognise the need for flexibility … consistent with the protection of consumers’ health”\(^1\). The activities of Task Forces functioning in parallel with the Committee system also include risk-based approaches to food safety e.g. the goal of the Ad Hoc Intergovernmental Task Force on Animal Feeding is to ensure risk-based animal feeding practices at the level of primary production\(^2\). National competent authorities are increasingly adopting this approach.

\(^1\)Report of the Twenty-third Session of the Codex Alimentarius Commission. ALINORM 99/37. FAO 1999
\(^2\)Code of Practice on Good Animal Feeding.
Although the establishment of national food regulatory systems is the responsibility of governments, the CAC has a strong interest in providing guidance on sound legislative frameworks and infrastructure. Official recognition of the equivalence of alternative measures in different scenarios is a key principle of food safety risk management.

The CAC seeks wider strategic alliances with other international organisations in working towards enhancing food control on a world-wide basis. In this respect, the strategic framework of the CAC for 2003-2007 has an objective to “promote linkages between Codex and other multilateral regulatory instruments and conventions”.

OIE

OIE develops international “standards” for animal health and zoonoses. These are primarily designed to prevent the introduction of pathogens to animals and humans into an importing country during trade. The Terrestrial Animal Health Code does not generally differentiate between measures intended to safeguard animal health and those intended to safeguard human health.

There has been a significant increase in OIE food safety activities in recent years. Historically OIE has mainly been concerned with zoonoses that cause disease in animals but has now accepted the challenge to be more active in the area of public health and consumer protection and has noted that this should include “zoonoses and diseases transmissible to humans through food, whether or not animals are affected by such diseases”. OIE intends developing new standards covering most relevant pathogens and contaminants that are dangerous for humans for inclusion into the Terrestrial and Aquatic Animal Health Codes and the Manuals.

Veterinary public health issues addressed by OIE to date include: inspection regimes for animals and products of animal origin; certification of meat; control of food-borne hazards during primary production e.g. the agent of BSE, Salmonella spp., Trichinella spiralis, cysticercosis, antimicrobial resistance and residues of veterinary drugs; and good veterinary practice at farm level. All these activities contribute to meat hygiene amongst other benefits.

Increased collaboration between OIE and CAC in respect of food borne zoonoses, particularly through the work of the OIE APFS WG, will result in standards and texts that bridge public and animal health interests across the ‘production to consumption’ continuum. It is the intent of OIE that collaborative work will result in increasing cross-reference to Codex in the Terrestrial Animal Health Code, and development of recommendations by OIE on several aspects of veterinary involvement in food safety. Similarly, it is expected that OIE will provide major contributions to the Codex codes of practice and other texts that incorporate a ‘production to consumption’ risk-based approach.

Codex Code of Hygienic Practice for Meat

A new Draft Code of Hygienic Practice for Meat\(^3\) has recently been completed by the Codex Committee on Meat Hygiene (CCMH) and is expected to be adopted in 2005 by the CAC. The Code constitutes the primary international standard for meat hygiene and incorporates a risk-based approach to application of sanitary measures throughout the food chain. Ante-mortem inspection is described as a primary component of meat hygiene pre-slaughter, and post-mortem inspection is described as a primary component of process control in post-slaughter meat hygiene.

\(^3\) Draft Code of Hygienic Practice for Meat. ALINORM 05/28/16. FAO 2005
The Draft Code of Hygienic Practice for Meat specifically recognises the duality of objectives that slaughterhouse inspection activities deliver in terms of public and animal health.

As the draft Code must serve as an international standard, it does not provide inspection measures for specific hazards or organoleptically detected abnormalities which remain the responsibility of national competent authorities. The public and animal health risks associated with slaughter populations are very different in different geographical regions and animal husbandry systems, and therefore the ante- and post-mortem inspection should be tailored to the individual country situation and their public and animal health objectives.

Other inputs to ante- and post-mortem meat inspection programmes arise from other Codex work. In particular, the Codex Committee on Food Hygiene (CCFH) develops overarching standards on food hygiene; the Codex Committee on General Principles (CCGP) develops general guidelines for risk analysis and for collaboration with OIE and the Codex Committee on Import and Export Inspection and Certification Systems (CCFICS) develops "horizontal" standards that guide implementation of national inspection programmes and certification.

Ante- and post-mortem inspection includes "any procedure or test conducted by a competent person…for the purpose of judgement of safety and suitability and disposition"\(^4\). Thus tests for compliance with the standards established by CAC for chemical residues, pesticides and contaminants may be included in these inspection activities. Similarly, the new microbiological risk assessment work of the Joint Expert Meeting on Microbiological Risk Assessment (JEMRA) will lead to specific risk management advice from CCFH on tests for microbial hazards e.g. *Salmonella* spp. in broilers, enterohaemorrhagic *Escherichia coli* in ground meats, *Listeria* spp. in manufactured meats.

Although the Draft Code provides a platform for development of meat hygiene systems that are based on risk assessment, it is recognised that currently there is a dearth of risk assessment models and other risk-based scientific information in this area. While this scientific information is being accumulated, ante- and post-mortem inspection systems will remain dependent on "traditional" approaches (Appendix II). A framework for developing risk-based procedures is presented in Appendix III.

**Veterinary services**

Special editions of the OIE Scientific and Technical Review Series have illustrated the widely varying approaches to organisation of veterinary public health, veterinary animal health and public health services within national competent authorities\(^5\). Integrating all nationally-mandated food inspection systems under a single competent authority is promoted as having several advantages, including a reduction in overlap and improvement in service delivery\(^6\). While organisation structure can vary from country to country, it is essential that coverage, resources and scientific and technical capabilities deliver a continuously high standard of service. Further, credible public and animal health assurances are essential for access of animal products to international markets.

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\(^4\) Draft Code of Hygienic Practice for Meat. ALINORM 05/28/16. FAO 2005


In respect of ante- and post-mortem inspection as a component of meat hygiene, responsibilities of national competent authorities who are usually Veterinary Services\(^7\) include:

a) Risk assessment

b) Establishment of policies and standards

c) Design and management of inspection programmes to deliver public and animal health objectives which must involve a risk based approach

d) Assurance and certification of appropriate delivery of inspection and compliance activities

e) Dissemination of information throughout the food chain

f) Notification of presence of notifiable diseases

g) Conformance with WTO obligations

h) Negotiation of mutual recognition and equivalence agreements with trading partners.

**Ante- and post-mortem meat inspection programmes**

Ante- and post-mortem meat inspection programmes are primary responsibilities of national Veterinary Services\(^8\). Wherever possible, inspection procedures should be designed according to a risk-based approach and management systems should reflect international norms.

**Risk assessment**

In a contemporary veterinary public health and animal health environment, Veterinary Services should utilise risk assessment to the greatest extent possible in the development of measures. National competent authorities are facing increased demands for technical expertise to develop domestic measures on this basis, while at the same time endeavouring to meet risk analysis obligations as assumed under international trade.

The unavailability of human risk assessment information for the whole food chain makes difficult the development of risk-based standards for food-borne zoonoses.

**Risk assessment in meat hygiene**

Ante- and post-mortem inspection programmes are aimed at achieving the designation of meat as being "safe and suitable". However, this is generally only a qualitative measure of freedom from hazards to human health. Post-mortem meat inspection cannot ensure freedom from grossly-detectable abnormalities, and sampling programmes for hazards have limited ability to detect randomly-occurring non-complying levels of residues and contaminants. More importantly, some transfer of microbiological contamination from the hide / fleece etc. to the carcass is inevitable in the slaughterhouse environment.

\(^7\) For the purposes of this discussion paper, "Veterinary Services" refers to veterinary public and animal health activities irrespective of the organisational arrangements of competent authorities at the national level.

\(^8\) OIE Animal Production Food Safety Working Group. "Role and functionality of veterinary services in meat hygiene throughout the food chain". 71st General Session of the OIE. 2003
There is only limited scientific evidence linking traditional ante- and post-mortem inspection with measurable outcomes in terms of human health. Additionally, there has been limited progress in tailoring inspection procedures to the spectrum and prevalence of the diseases/defects present in a particular class of slaughtered livestock from a specific geographical region. A risk assessment approach can be used to address these problems and facilitate the proportional allocation of meat hygiene resources and type of inspection and tests according to level of risk.9

Risk-based approaches to meat-borne risks to human health are also demonstrating that unseen microbiological contamination rather than grossly-apparent abnormalities detected at ante and post-mortem inspection, is the most important source of hazards. This has led to increasing demands for more systematic approaches to combat these hazards e.g. HACCP systems.

Microbiological, serological or other testing at single-animal and herd level as part of new, risk-based post-mortem inspection can support surveillance as well as risk assessment efforts related to priority foodborne hazards. Such data and typing information can be linked to human disease data, providing for assessment of efficiency of management options as well as a general evaluation of food sources of foodborne disease.

Risk assessment in animal health

The OIE Terrestrial Animal Health Code contains detailed provisions on import risk analysis. Regionalisation and surveillance for animal diseases in the exporting country provide important inputs to the risk assessment process. Unlike food safety, animal health risk assessment for control of endemic diseases of animal health importance in a regional environment is not commonly carried out. OIE standards for zoonoses are not generally based on human health risk assessments per se.

OIE defines risk assessment as "the evaluation of the likelihood and the biological and economic consequences of entry, establishment, or spread of a hazard within the territory of an importing country". For many of the standards, it is stated that there is "broad agreement concerning the likely risks", however, these are not linked to specific decisions on an appropriate level of protection (ALOP). The recently formulated OIE risk analysis process for antimicrobial resistance introduces a risk management framework very similar to that used in food safety10 (see below).

Generic framework for managing public health and animal health risks

Although food safety and animal health sectors have developed a different history and usage of risk analysis, many aspects are common11. Application of a generic framework provides a systematic and consistent process for managing all “biosecurity” risks while accommodating different risk assessment methodologies as appropriate. This framework generally consists of four components:

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Appendix XXXVI (contd)

Appendix D (contd)

a) Preliminary risk management activities
b) Assessment of risk management options
c) Implementation
d) Monitoring and review.

A brief description of a generic risk management framework is provided in Appendix III.

Whatever the biosecurity issue, there should be a strategic, organisational and operational context for veterinary aspects of risk analysis. Appropriate inputs will be required to guide the process, which should be undertaken in a transparent and consistent manner.

Veterinary involvement in risk assessments associated with development of ante- and post-mortem inspection measures is essential. In this respect, the trend toward institutional approaches that bridge the animal and public health sectors / disciplines involved is increasingly gaining recognition at the national level and the traditional focus on regulating individual production systems is shifting to one of ensuring confidence in overall regulatory frameworks at all levels. Further, development of a more unified approach will assist general understanding of risk assessment across all biosecurity sectors and the optimisation of scarce technical resources in developing countries.

Establishment of policies and national measures

Meat hygiene

Meat hygiene is defined as "all conditions and measures necessary to ensure the safety and suitability of meat at all stages of the food chain"\(^\text{12}\). In the context of meat hygiene, safety is defined in terms of appropriate application of measures to protect public health, and achievement of any quantitative outcomes for hazard control that may be required. Suitability is defined in terms of meat having been produced in a hygienic manner, and meeting any non-safety quantitative standards that may be identified.

Development of policies and standards for ante-and post-mortem inspection is predicated by these objectives. Technical justification, practicality and effectiveness of measures rely on veterinary public health inputs, as do establishment of competencies of inspection personnel and training requirements\(^\text{13}\). The national competent authority(s) must also provide an appropriate institutional environment for Veterinary Services to develop such policies and measures.

Measures for ante- and post-mortem inspection of meat include disposition judgements following detection of abnormalities. Judgements must be exercised by personnel who have the appropriate competence if dispositions are to achieve the "safety and suitability" objectives described above. However, sorting and removal of all abnormal tissues from the food chain without recourse to further examination/judgement as to safety or suitability is a practical alternative in many situations. In fact, a conservative policy in regard to disposition of abnormal carcasses and/or viscera is reflected in the precautionary approach inherent in any risk assessment process.


\(^{13}\) In the absence of a risk-based approach, inspection measures are prescribed according to long-standing practice: see Appendix I
Animal health

A further and vital component of ante- and post-mortem inspection is the detection and removal of hazards of animal health significance from the food chain where the food (or associated by-products) might be considered a means of transmission of that hazard e.g. transmission of diseases by feeding of meat scraps to animals, or transmission via meat with a designated non-human end-use e.g. uncooked petfood. This objective may be met by removal of live animals at ante-mortem inspection or by removal of specific tissues at post-mortem inspection.

Animal health surveillance and monitoring

Animal health surveillance constitutes "continuous investigation of a given population to detect the occurrence of disease for control purposes" and monitoring constitutes "on-going programmes directed at detection of changes in the prevalence of a disease in a given population." In this context, ante-mortem and organoleptic inspection of slaughter animals can provide an important sentinel function for zoonoses as well as other animal diseases of importance. Further diagnostic tests can be applied in the case of suspect animals and/or carcasses.

Animal health surveillance and monitoring allow Veterinary Services to identify and control significant endemic or exotic diseases within their territory, and substantiate reports on the animal health situation in their country. Both functions provide essential inputs to import risk analysis and certification for export.

As for meat hygiene, policies and measures applied at ante- and post-mortem inspection for the purposes of animal health surveillance and monitoring should be risk-based and should be feasible and practical in the slaughterhouse environment.

An example of risk-based monitoring of zoonoses is well illustrated in the OIE chapter for bovine spongiform encephalopathy (BSE). It is stated that surveillance strategies “should be determined by, and commensurate with the outcome of risk assessment” and have two primary goals: to determine whether BSE is present in a country, and once it has been detected, monitor development of the disease, direct control measures and monitor their effectiveness.

Integration of veterinary activities

It is clear that veterinary inputs to ante- and post-mortem inspection achieve a duality of public health and animal health objectives. Irrespective of the jurisdiction of the competent authorities involved, it is obvious that Veterinary Services should integrate their activities to the maximum extent possible and practicable so as to increase the efficacy of policies to prevent duplication of effort and unnecessary costs e.g. within the process of international certification.

In addition to sharing of routine inspection activities to achieve both public health and animal health objectives, other opportunities that arise for collaboration are: collection and integration of monitoring data, sharing of diagnostic facilities and methodologies, verification and enforcement of inspection requirements in an integrated manner, verification of relevant professional skills of inspectors, and pooling of technical expertise. Additionally, the primary role of industry in contributing to food safety can be enhanced, allowing cost-effective structural adjustments in Veterinary Services.

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14 OIE Terrestrial Animal Health Code

Management of public and animal health inspection programmes

Competent Authority

In meeting veterinary public health and animal health objectives prescribed in national legislation or required by importing countries, Veterinary Services contribute in various ways "from the direct performance of necessary veterinary tasks to the evaluation of veterinary activities conducted by operators in the agro-industrial chain". It should be noted that "Veterinary Services" are no longer the sole managers of animal health protection and disease control, but rather guarantors that all parties involved in food production fulfil their respective obligations to guarantee safe food for the consumer"16. To this end Veterinary Services fulfil the role of “Competent Authority” and provide assurance both domestically and to trading partners guaranteeing safety standards have been met as well as those pertaining to suitability.

The CCMH recognises that while responsibility for meat hygiene always rests with Veterinary Services in the national Competent Authority, “flexibility should be allowed on how the service is delivered e.g. by the competent Authority or by an officially recognised competent body operating under the supervision and control of the Competent Authority”17.

The OIE Terrestrial Animal Health Code ascribes that the quality of Veterinary Services can be determined through an evaluation that ensures compliance with principles on professional judgement, independence, impartiality, integrity, objectivity, general organisation, quality policy, procedures/standards, communication, and self-evaluation. Whatever the activity, Veterinary Services must be able to demonstrate that no conflict of interest exists between public and/or animal health objectives and economic support for the meat production and processing industry.

Inputs to ante- and post-mortem inspection activities may also be provided by veterinarians employed by industry e.g. industry-led quality assurance programmes at the level of primary production may involve veterinary supervision and slaughterhouse information servicing. Individual health certification of groups of slaughter animals is a common practice in a number of countries e.g. for zoonotic diseases, veterinary drug residues and vaccination regimes. Veterinary ante-mortem inspection may also be provided at the level of livestock production18.

Quality assurance of systems

Those who benefit from inspection provided by Veterinary Services e.g. farmers and meat processing companies, are increasingly committing themselves to quality systems due to demand from their customers19. Consequently, these stakeholders are increasingly demanding inspection by competent authorities that is consistent and of high-quality.

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17 Report of the 10th Session of the Codex Committee on Meat Hygiene. ALINORM 04/27/16. FAO, Rome

18 McKenzie, A. I. and Hathaway S. C. The role of veterinarians in the prevention and management of food-borne diseases, in particular at the level of livestock producers. 70th General Session of OIE. 2002

In some countries, formal quality assurance procedures are being put in place to assure competence and reliability of Veterinary Services on an on-going basis. Creating a quality system is a simple way of implementing the objectives contained in the quality policies that are written by veterinary managers. Tools such as quality accreditation are seen as necessary components of "modern economic management systems". Quality assurance systems can be extended in the case of ante- and post-mortem inspection to "co-regulatory" systems that integrate industry and Veterinary Service activities. In Australia, these systems are based on HACCP principles, are nationally uniform and extend from “production to consumption”. Through a co-regulatory partnership arrangement, the official Veterinary Service is responsible for the broad design of the inspection system and its audits and sanctions, while the industry is responsible for further developing, implementing and maintaining the system. The veterinarian responsible for the specific slaughterhouse ensures that the meat safety quality assurance programme implemented by industry meets regulatory requirements on an on-going basis.

Use of non-veterinary inspection personnel

Use of private or public non-veterinary personnel to carry out ante- and post-mortem inspection activities is well established within many national programmes. However, all ante- and post-mortem inspection arrangements should satisfy the principles of independence, competence of inspectors and impartiality, and must be carried out under the overall supervision and responsibility of the official Veterinary Services. The Competent Authority should specify the competency requirements for all persons engaged in inspection and verify the performance of those persons.

Assurance and certification

Assurance and certification of appropriate delivery of inspection and compliance activities is a vital function of Veterinary Services. International health certificates providing official assurances for trading of meat must engender full confidence to the country of importation.

Information networks

The SPS Agreement and the standards developed by the CAC and OIE all refer to the need for a systematic process to gather, evaluate and document scientific and other information as the basis for sanitary measures. This has long been recognised by Veterinary Services at the national level.

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23 Draft Code of Hygienic Practice for Meat. ALINORM 05/28/16. FAO, 2005

Appendix XXXVI (contd)

Appendix D (contd)

Organisation and dissemination of information throughout the food chain involves multidisciplinary inputs. Effective implementation of risk-based ante- and post-mortem inspection procedures is dependant on on-going monitoring and exchange of information. Animal identification, either as individuals or groups, is necessary in most situations and slaughtered animals should be able to be traced back to their place of origin as appropriate.

Veterinary inputs from primary production and slaughter are especially important to information networks servicing ante- and post-mortem inspection. As an example, it is likely that extrinsic cross-contamination as a result of slaughter, dressing and subsequent processing of meat is by far the most important source of hazards of public health importance. Bioloads of known food-borne pathogens that are transferred in this way are often a reflection of pre-harvest animal husbandry, the health status of the slaughter population, and pre-slaughter handling.

Conformance with WTO obligations

The World Trade Organisation (WTO) Sanitary and Phytosanitary (SPS) Agreement represents the best efforts of the global community to establish principles and guidelines governing the establishment and implementation of measures to protect public and animal health.

Veterinary Services should ensure that ante-and post-mortem inspection of slaughter is based on an overall assessment, as appropriate to the circumstances, "of the risks to human, animal, or plant life or health, taking into account risk assessment techniques developed by the relevant international organisations". Further, inspection procedures utilised in import/export programmes should be comparable to those used in domestic programmes.

In implementing the provisions of the WTO SPS and TBT Agreements, Veterinary Services have an increasing role in developing mutual recognition and equivalence agreements with trading partners. A risk-based approach to ante- and post-mortem inspection programmes allows the performance and equivalence of different meat inspection systems to be judged in terms of in meeting animal and public health objectives, thereby mitigating technical barriers to trade.
Ante-mortem inspection procedures

The health status of the farm of origin and the husbandry of slaughter animals has a significant effect on the safety and wholesomeness of meat. In this respect, all efforts should be made to collect and evaluate information that might have influence on ante-mortem and post-mortem inspection.

Ante-mortem inspection should be carried out in a systematic manner in accordance with routine procedures established by the controlling authority, and should ensure that animals found to be affected by a disease or defect that would render their meat unfit for human consumption are removed from the human food chain and so identified.

Ante-mortem inspection should ensure that animals whose meat may be fit for human consumption but that require special handling during slaughter and dressing, and animals that will require special attention during post-mortem inspection, are segregated and so handled or inspected.

Adequate animal identification and record keeping systems are essential if full use is to be made of on-farm information relevant to ante-mortem and post-mortem inspection. Data collection and recording systems should accurately reflect on-farm health status and allow meaningful epidemiological analysis. In addition, the data collection and recording system should be capable of responding to changes in local or regional human health and animal health status.

One of the most important functions of ante-mortem inspection is to ensure that animals are rested sufficiently so that signs important to inspection disposition are not masked. It also ensures that signs that are important to inspection disposition but that may be less readily observed (or not evident) at post-mortem inspection can be taken into account in reaching a decision as to the safety and wholesomeness of meat. When it is found on ante-mortem inspection that an animal is not fit to be slaughtered for human consumption, a judgement should be based on that finding and not delayed until after slaughter and post-mortem inspection. Ante-mortem inspection enables animals that require special handling on the slaughter and dressing floor (whether because of uncleanness, disease or defect) to be identified and given that special handling, as well as permitting the identification of animals requiring special post-mortem inspection.

Post-mortem inspection procedures (traditional)

Post-mortem inspection procedures and tests should be established by the competent authority according to a science- and risk-based approach. In the absence of a risk-based system, procedures will have to be based on current scientific knowledge and practice.

Post-mortem inspection procedures based on current knowledge and practice vary considerably in different countries. The procedures that are presented in the following tables are only intended to provide general guidance in meeting public and animal health objectives, and should be adapted by the competent authority as appropriate. In particular:


OIE Terrestrial Animal Health Standards Commission September 2005
Appendix XXXVI (contd)

Appendix D (contd)

a) Routine procedures may be supplemented by additional procedures to assist judgement.

b) Young animals are likely to need less intensive inspection than older animals, although some diseases are confined to young animals e.g. omphalophlebitis.

c) In the case of farmed game and farmed game birds, post-mortem inspection procedures established for similar domestic animals may act as a basis for their post-mortem inspection. These may need to be modified as necessary.

d) In the case of killed wild game and wild game birds, post-mortem inspection procedures should reflect the particular circumstances of harvesting and transport to the establishment.

e) Special post-mortem inspection procedures may need to be applied to animals that have reacted to screening tests, e.g., animals which have reacted positively to a tuberculin test should be slaughtered under special hygiene conditions and be subject to more intensive inspection procedures than non-reactor animals.

f) Special post-mortem judgements may need to be applied to animals that have reacted to screening tests, e.g., irrespective of detection of lesions suggestive of infection, the udder, genital tract and blood of animals which have reacted positively to a brucellosis test should be judged as unfit for human consumption.
Table 1: Examples of procedures for routine post-mortem inspection of the head of animals intended for human consumption

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Cattle</th>
<th>Pigs</th>
<th>Sheep/goats</th>
<th>Horses</th>
<th>Deer</th>
<th>Poultry</th>
</tr>
</thead>
<tbody>
<tr>
<td>External surfaces/oral cavity</td>
<td>V</td>
<td>V</td>
<td>V&lt;sup&gt;a&lt;/sup&gt;</td>
<td>V</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Submaxillary lymph nodes</td>
<td>V, I&lt;sup&gt;b&lt;/sup&gt;</td>
<td>V, I</td>
<td>—</td>
<td>V, P</td>
<td>V, I</td>
<td>—</td>
</tr>
<tr>
<td>Parotid lymph nodes</td>
<td>V, I</td>
<td>—</td>
<td>—</td>
<td>V, P</td>
<td>V, I</td>
<td>—</td>
</tr>
<tr>
<td>Retropharyngeal lymph nodes</td>
<td>V, I</td>
<td>—</td>
<td>—</td>
<td>V, P</td>
<td>V, I</td>
<td>—</td>
</tr>
<tr>
<td>Tongue</td>
<td>V, P&lt;sup&gt;c&lt;/sup&gt;</td>
<td>V</td>
<td>—</td>
<td>V, P</td>
<td>V, P</td>
<td>—</td>
</tr>
<tr>
<td>Muscles of mastication</td>
<td>V, P, I&lt;sup&gt;d&lt;/sup&gt;</td>
<td>V, P, I</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

V is visual inspection, P is inspection by palpation, I is inspection by incision.

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<sup>a</sup> Notwithstanding post-mortem inspection for animal health purposes, the head may be discarded if brains and tongues are not collected for human consumption

<sup>b</sup> Incision of lymph nodes of the head is not necessary in calves

<sup>c</sup> Palpation of the tongue is not necessary in calves

<sup>d</sup> The muscles of mastication should be incised according to the potential for infestation with cysts of *Taenia* pp.

<sup>e</sup> The nasal septum should be removed and examined if glanders is present in the slaughter population
Table 2: Examples of procedures for routine post-mortem inspection of the carcass of animals intended for human consumption

<table>
<thead>
<tr>
<th></th>
<th>Cattle</th>
<th>Pigs</th>
<th>Sheep/goats</th>
<th>Horses</th>
<th>Deer</th>
<th>Poultry</th>
</tr>
</thead>
<tbody>
<tr>
<td>External surfaces</td>
<td>V</td>
<td>V(^a)</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Prescapular lymph nodes</td>
<td>V</td>
<td>—</td>
<td>V</td>
<td>—</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Thoracic cavity/pleura</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Abdominal cavity/peritoneum</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Superficial inguinal lymph nodes</td>
<td>V, P</td>
<td>—</td>
<td>V, P</td>
<td>V, P</td>
<td>V, P</td>
<td>—</td>
</tr>
<tr>
<td>External/internal iliac lymph nodes</td>
<td>V, P</td>
<td>—</td>
<td>V, P</td>
<td>V, P</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Supramammary lymph nodes</td>
<td>V, P(^b)</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Pre-pectoral lymph nodes</td>
<td>V, P</td>
<td>—</td>
<td>V, P</td>
<td>V, P</td>
<td>V, P</td>
<td>—</td>
</tr>
<tr>
<td>Popliteal lymph nodes</td>
<td>—</td>
<td>—</td>
<td>P</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Renal lymph nodes</td>
<td>V, P</td>
<td>V, P</td>
<td>—</td>
<td>V, P</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>V</td>
<td>V(^c)</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>—(^d)</td>
<td>—</td>
<td>—</td>
<td>—(^e)</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

V is visual inspection, P is inspection by palpation, I is inspection by incision.

Note: The umbilicus and joints of the limbs should be viewed and palpated in very young animals.

Note: A quality assurance system should be in place to ensure that all thyroid tissue has been removed from the throat.

\(^a\) Castration sites should be palpated
\(^b\) Supramammary lymph nodes should be incised in lactating animals
\(^c\) The muscles of the diaphragm should be incised according to the potential for infestation with cysts of *Taenia* spp.
\(^d\) The udder should be incised if it is intended for human consumption
\(^e\) The muscles and lymph nodes beneath one of the two scapular cartilages should be examined for melanosis in all grey and white horses
### Table 3: Examples of procedures for routine post-mortem inspection of the viscera of animals intended for human consumption

<table>
<thead>
<tr>
<th></th>
<th>Cattle</th>
<th>Pigs</th>
<th>Sheep/goats</th>
<th>Horses</th>
<th>Deer</th>
<th>Poultry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lungs</td>
<td>V, P⁴</td>
<td>V, P</td>
<td>V, P</td>
<td>V, P</td>
<td>V, P</td>
<td>V</td>
</tr>
<tr>
<td>Oesophagus</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Trachea</td>
<td>V</td>
<td>V</td>
<td>—</td>
<td>V</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Bronchial lymph nodes</td>
<td>V, I ⁶</td>
<td>V, P</td>
<td>V, P</td>
<td>V, P</td>
<td>V, I</td>
<td>—</td>
</tr>
<tr>
<td>Mediastinal lymph nodes</td>
<td>V, I</td>
<td>V, P</td>
<td>V, P</td>
<td>V, P</td>
<td>V, I</td>
<td>—</td>
</tr>
<tr>
<td>Heart</td>
<td>V, P, I ⁵</td>
<td>V, P, I ⁵</td>
<td>V, P</td>
<td>V, P, I</td>
<td>V, P</td>
<td>V</td>
</tr>
<tr>
<td>Pericardium</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Liver</td>
<td>V, P</td>
<td>V, P</td>
<td>V</td>
<td>V, P</td>
<td>V, P</td>
<td>V</td>
</tr>
<tr>
<td>Portal lymph nodes</td>
<td>V, P</td>
<td>V, P</td>
<td>V</td>
<td>V, P</td>
<td>V, P</td>
<td>—</td>
</tr>
<tr>
<td>Gall bladder</td>
<td>V, I ⁷</td>
<td>—</td>
<td>V, P</td>
<td>—</td>
<td>V, P</td>
<td>—</td>
</tr>
<tr>
<td>Kidneys</td>
<td>V</td>
<td>P</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Renal lymph nodes</td>
<td>V</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Spleen</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>—</td>
</tr>
<tr>
<td>Gastrointestinal tract</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>Mesenteric lymph nodes</td>
<td>V, P</td>
<td>V, P</td>
<td>V</td>
<td>V, P</td>
<td>V, P</td>
<td>—</td>
</tr>
<tr>
<td>Genital organs ⁶</td>
<td>V</td>
<td>V</td>
<td>—</td>
<td>V</td>
<td>V</td>
<td>V</td>
</tr>
</tbody>
</table>

V is visual inspection, P is inspection by palpation, I

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⁴ Incision of the diaphragmatic lobe can be used to examine the bronchii if lungs are intended for human consumption

⁵ Incision of the bronchial and mediastinal lymph nodes is not necessary in calves

⁶ The number and location of incisions in the heart muscle should be according to the potential for infestation with cysts of *Taenia* spp.

⁷ An alternative to incision of the bile ducts for the detection of distomatosis is incision through the gastric surface of the liver. Inspection for distomatosis is not necessary in calves

⁸ Kidneys should be palpated if intended for human consumption; kidneys of grey or white horses should be incised

⁹ Palpation and incision should be carried out as appropriate if tissues are intended for human consumption e.g. uterus of heifers.
Appendix XXXVI (contd)

Appendix D (contd)

Appendix II

Risk-based ante- and post-mortem inspection procedures

Background

The Codex General Principles of Food Hygiene state that “in deciding whether a (food control) requirement is necessary or appropriate, an assessment of the risk should be made, preferably within the framework of the HACCP approach”. Many long-standing ante- and post-mortem meat inspection procedures are complex, labour-intensive, undifferentiated for different classes of slaughtered livestock, and poorly evaluated in terms of their relative contribution to reducing food-borne risks to public health. For these reasons, competent authorities in a number of countries are carrying out investigations into the scientific basis of current procedures.

A risk-based approach to meat inspection can achieve the following objectives:

a) Determination of the level of consumer protection provided by specified inspection procedures;
b) Relative measurement of the contribution of inspection to the overall level of control of hazards in meat (and risks to consumers), thereby allowing risk managers to allocate meat hygiene resources proportionate to their greatest benefit in preventing meat-borne risks;
c) Comparison of the effectiveness of different inspection procedures applied for the same purpose and in the same context, e.g. positive predictive value;
d) Provision of information that allows appropriate evaluation of different risk management options e.g. regionalisation of inspection programmes, feasibility and comparative costs of different inspection procedures, potential for cross-contamination;
e) Full integration of inspection procedures into a “production-to-consumption” approach to meat hygiene.
f) Provision of animal production data to enable linkages to foodborne disease data, e.g. through relevant serological, bacteriological and other testing to assess animal or herd prevalence, as well as isolates for typing purposes.

In the ideal situation, risk estimates will be quantified in terms of risks to human health, and risk management decisions on an appropriate level of protection (ALOP) will dictate the nature and intensity of the inspection procedures to be applied. However, risk assessment of microbiological hazards in meat is currently limited by a lack of quantitative risk assessment models. Nevertheless, appropriate assembly of scientific information and qualitative risk characterisation as to the probable impacts on human health can provide an objective basis for decision-making.

Principles

1. Inspection procedures should be evaluated for application within a specific context e.g. species and class of slaughtered animal, defined geographical region, defined animal husbandry system.
2. Where different inspection procedures that have the same purpose and context are being evaluated:
   a) An objective basis for comparison of the level of control of hazards associated with these procedures, should be established;
   b) The efficacy of each inspection procedure in detecting abnormalities and visible contamination affecting the safety of meat should be taken into account;
   c) Other risk management factors should be taken into account as appropriate e.g. potential for inadvertent cross-contamination, feasibility, and practicality.
3. Where needed, representative and sufficiently large field trials should be undertaken to determine the performance attributes of specified inspection procedures e.g. sensitivity, specificity, and non-detection rates for abnormalities.
4. Where appropriate, laboratory investigations should be designed to detect the range of hazards of possible public health importance that have been described in hazard identification.
5. Routine application of inspection procedures should not inadvertently increase cross-contamination with microbiological hazards.
6. Irrespective of inspection delivery systems, the competent authority should be responsible for defining the role of personnel involved in inspection procedures, and verifying that any performance criteria are met.
7. Alternative inspection procedures (e.g. serology) may be utilised to complement post-mortem inspection, which might be reduced to visual inspection.
8. Surveillance through serological, bacteriological or other testing for priority foodborne hazards should be promoted in order to provide food production chain data for risk assessment and monitoring purposes.

**Guidelines in developing a risk-based inspection system**

**Identification of the issues**

A hazard identification process should be undertaken to determine the likely range of hazards of public health significance that may be present. Following this, field trials should be undertaken to determine the performance attributes of specified inspection procedures or new technologies relative to the hazards that may be present.

**Field trials**

Once the likely range of hazards has been established, field trials may be an appropriate means to establish the prevalence of these hazards in the animal population, the potential exposure of consumers to these hazards and the potential impact of different inspection procedures on this exposure. Field trials should be carried out under competent authority supervision and employing competent personnel. The number of animals examined by the inspection procedures under evaluation should give a statistically valid estimate of the detection rate of abnormalities achieved by specific post-mortem inspection procedures.
Sampling plans should be representative of the slaughter population, and cater for known biological variation in respect of the type and prevalence of abnormalities e.g. influence of animal age, geographical region, farming type and season.

Where different inspection procedures are being compared: all procedures should be applied to the same animals, each inspection station should be designed to provide independent results, and the trial should include enough samples so as to allow definite conclusions as to the consequences of changing inspection procedures.

Laboratory investigations e.g. microbiological examination and histology, should be designed to identify the range of hazards of possible public health importance that have been identified in the hazard identification process.

Performance attributes

An understanding of the level of consumer protection that is achieved by particular inspection procedures requires knowledge of the level of control of hazards that is attained in meat. These would be reflected in performance objectives and/or performance criteria where these have been defined. Performance attributes for inspection procedures should achieve these.

The performance attributes of inspection procedures under test (e.g. visual inspection, palpation, and/or incision) should be determined within appropriate statistical limits established by the Competent Authority. The intended end-use of the target tissues has an important influence on the development of risk-based inspection procedures.

The sensitivity of an inspection procedure is the probability of correctly identifying an animal or tissue that is likely to contain public health hazards. An inspection procedure with a high sensitivity will result in few false negatives.

The specificity of an inspection procedure is the probability of correctly identifying animals or tissues that do not contain public health hazards. An inspection procedure with a high specificity will result in few false positives.

Risk management decisions

Risk management decisions on the acceptability or otherwise of specified inspection procedures will generally be based on the worst case of non-detection included in an appropriate statistical confidence interval. In the general case, new or alternative inspection procedures should provide a level of consumer protection that is at least equivalent to that provided by existing procedures, unless there are strong mitigating factors that may influence a different risk management choice e.g. unacceptable introduction of new hazards, undue risks from occupational exposure.

Where detailed information on the health status of slaughtered animals is available from primary production, risk-based inspection procedures may be modified on a lot-by-lot basis, with the Competent Authority having responsibility for determining the frequency and extent of the procedures.
Appendix III

A generic risk management framework for biosecurity

Introduction

A risk-based biosecurity programme is one that is formulated according to some knowledge, whether quantitative or qualitative, on risks to health. A generic risk management framework provides the process whereby knowledge on risk, and evaluation of other factors relevant to health protection and the promotion of fair trade practices, are used to choose and implement appropriate controls.

Generic framework

The four key steps in application of a generic risk management framework are:

a) Preliminary risk management activities
b) Selection of risk management options
c) Implementation of controls
d) Monitoring and review.

This framework should be applied in a consistent, open, transparent and fully documented manner. Recognising the iterative and interactive nature of risk management is essential. Effective risk management incorporates a precautionary approach and relies on appropriate risk communication and stakeholder representation at all steps.

Preliminary risk management activities

Preliminary risk management activities include identification of health issues and assembly of information to guide further risk management activities. In this context, sources of knowledge on risk include: risk profiles, ranking processes for different hazard exposure pathways, “qualitative” or “quantitative” risk assessments, and health surveillance data. The risk manager may commission a detailed risk assessment as an independent scientific process so as to better inform decision-making. Once a risk assessment has been received, the last task in preliminary risk management activities is to consider the results for completeness and appropriateness.

Selection of risk management options

This is the process whereby potential risk management options are identified, and then selected according to appropriate decision-making criteria. The selection of preferred risk management options will primarily involve a systematic evaluation of the likely impact of different measures on preventing, eliminating or reducing risks to health. Factors other than risks to health can be taken into account if relevant and appropriate e.g. cost-effectiveness of a measure. Wherever possible and practical, a risk-based control system will use risk assessment information to establish regulatory “targets” at a particular step in the exposure pathway that delivers a defined level of health protection.
Implementation of controls

Implementation of food safety measures will usually involve regulatory standards and associated regulatory activities. In cases of urgency and “emerging” hazards, risk managers may have to implement interim controls on the basis of limited scientific information. Verification of measures will assure that the health protection goals are being achieved on an ongoing basis.

Monitoring and review

This risk management activity is represented by the gathering and analysing of data on health so as to give an overview of outcomes of risk management decisions. Monitoring (which includes surveillance) should identify new health problems as they emerge. Where there is evidence that required health goals are not being achieved, redesign of controls will be needed.

Summary

Application of a generic risk management framework allows decisions to be taken that are proportionate to the health risks involved, facilitates innovation and flexibility in application of control measures, and allows due regard to be taken of costs as well as benefits. Regulatory input in a control programme should be broad enough to encompass all relevant components of the exposure pathway and ensure that control measures are applied where they will be most effective in reducing risks.
WORK PROGRAMME FOR 2005/2006

The Working Group discussed issues identified at its previous meeting and which still needed to be addressed at some stage in the work programme. The following priorities for 2005 were agreed:

1) Horizontal issues
   a) animal identification and traceability – underway through an OIE ad hoc group
   b) testing, inspection and certification – the Working Group recommended that the OIE work with Codex (especially CCFICS) and other relevant international organisations (such as the IDF) to review international standards with a view to maximising harmonisation – underway with Working Group to follow up
   c) antimicrobial resistance - Working Group to follow up Codex and OIE developments
   d) most effective approaches to zoonoses – listing (ad hoc group on disease notification) or alternative approaches (ad hoc group on emerging zoonoses)
   e) good farming practices – revise, through establishment of an ad hoc group if necessary
      possible future subtopic – hazards arising from use of animal waste and by-products in animal production (in coordination with other organisations)
   f) guidelines for animal feeding, addressing the animal health issues
   g) summary of document on ‘Control of hazards of public health and animal health importance through ante- and post-mortem meat inspection’.

2) Disease-specific OIE texts
   a) Terrestrial Code chapter on bovine tuberculosis – underway for possible adoption
   b) Terrestrial Code chapters on brucellosis – subject to adoption of Tuberculosis chapter
   c) Salmonellosis – take into account Codex (CCFH) and WHO work on risk reduction for salmonellosis; initially Salmonella enteritidis in eggs

3) Continue to strengthen relationship between OIE and Codex by
   a) encouraging enhanced OIE input into Codex texts
   b) developing a method for the most effective utilisation of Codex expertise in the work of OIE ad hoc Groups

4) Development of new texts

The role of veterinary services in the reduction of chemical hazards of public and animal health significance at the farm level' through establishment of an ad hoc group as resources permit.