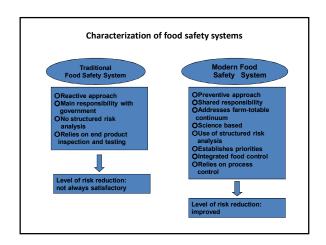
APEC Scientific seminar warkshop on Food Safety Risk Benefit Analysis
22-24 Nov 2011

Food poisoning Measures for
raw meat.

ISO/FSSC22000/HACCP Certification Registry
AUDIS Corporation
Chief Audit Officer
Emi Saito



The main cause of food poisoning bacteria by eating raw meat be a problem

○Campylobacter

- Most incidents of bacterial food poisoning most since 2003 Food poisoning bacteria
- Often caused by eating raw meat like chicken and beef liver

OEnterohemorrhagic E. coli

- •in severity concomitant increase hemolytic uremic syndrome with encephalopathy may result in death
- •enterohemorrhagic E. coli food poisoning in the years 2003-2009 Case was found to cause the food is all related to meat

OSalmonella

•Main symptoms of acute gastroenteritis due to food poisoning, sometimes lead to death

•Widely distributed in meat and other animal's intestinal tract is contaminated 食安委提供

Reports of enterohemorrhagic Escherichia coli infection

	年次	報告数	有症者	有症者割合(%)
_	2000	3,648	2,265	62.1
	2001	4,435	2,943	66.4
	2002	3,183	1,994	62.6
	2003	2,999	1,623	54.1
	2004	3,764	2,551	67.8
	2005	3,589	2,426	67.6
	2006	3,922	2,515	64.1
	2007	4,617	3,083	66.8
	2008	4.321	2.818	65.2
	2009	3,889	2,607	67.0

感染症発生動向調査週報 2009, 第35週、p. 15-23.

Incidence of major serotypes by enterohemorrhagic E. coli food poisoning

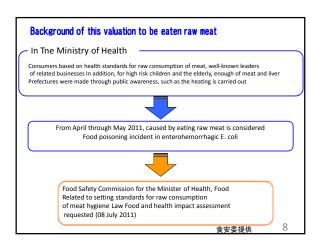
					•	_	,		
	0157				O26		0111		
年	件数	患者数	死者数	件数	患者数	死者数	件数	患者数	死者数
1996	87	10,322	8	2	7	0	4	76	0
1997	25	211	0	14	14	0	7	7	0
1998	13	88	3	1	88	0	2	7	0
1999	6	34	0	0	0	0	1	4	0
2000	14	110	1	1	1	0	1	2	0
2001	24	378	0	0	0	0	0	0	0
2002	12	259	9	0	0	0	0	0	0
2003	10	39	1	1	141	0	0	0	0
2004	18	70	0	0	0	0	0	0	0
2005	24	105	0	0	0	0	0	0	0
2006	23	166	0	1	13	0	0	0	0
2007	25	928	0	0	0	0	0	0	0
2008	17	115	0	0	0	0	0	0	0
2009	26	181	0	0	0	0	0	0	0
2010	27	358	0	0	0	0	0	0	0

厚生労働省食中毒統計、腸管出血性大腸菌による食中毒発生状況、病原微生物検出情報より作成

Cause food groups	Number	Cause Facility	Number
Grilled meat etc.	36	Restaurant Home Other	32 2 2
Lever	18	Restaurant Home Shop	15 2 1
Eaten raw meat	8	Restaurant Unknown	3
Hamburger/ steak	4	Restaurant Unknown	3 1
Viscera	3	Restaurant Unknown	2
Other	1	Home	1
Unknown	69	Restaurant Home Side shop Office School Hotel Other Unknown	56 3 4 1 1 1 1 1 2

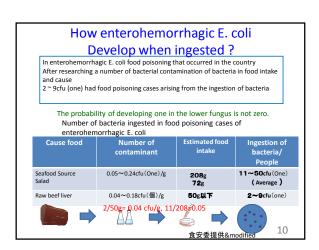
Eaten raw meat (beef) for Background of Food Safety Assessment

食安委提供



Eaten raw meat (beef) in Food and Health Impact Assessment (August 23) Overview

9



Salmonella cases?

- Cases have been found in a number of bacteria ingested salmonella food poisoning cases, the lowest number of bacteria (about four)
 - Cause Food: Chocolate
 - Probability of occurrence in enterohemorrhagic E. coli and Salmonella are similar
- FAO/WHO Risk assessment

 - One
 1/400

 - 4
 1/101

 - 10
 1/43

 - 100
 1/8

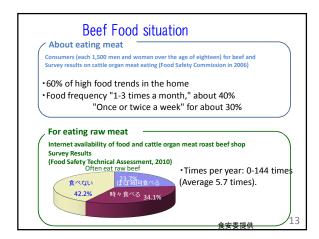
 - 1,000
 1/3

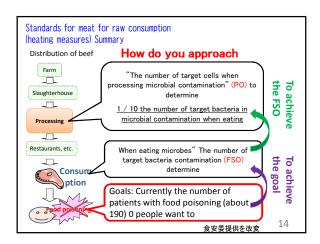
 - 10,000
 1/2

11

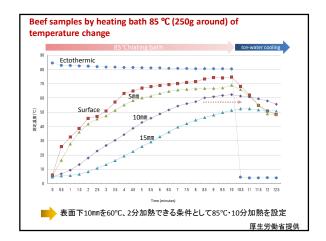
Beef Food situation

食安委提供 12









Features of this risk assessment

Features of this risk assessment

- FSO and PO set at the level of severity, microbiological standards
- Processing standards, but it does not actually heat the edible portion is not
 Reduction of pathogenic microorganisms simply obtained by heat treatment, can not directly estimate the risk reduction
- Realistically microbiological confirmation is not possible level
 →Instead of indicator bacteria found in the presence of heat, microbiological testing to ensure that they meet at the PO
- " MicroorganismStandard "and "process standards" set of management

Food and Health Impact Assessment Summary

- OThe goal of microbial contamination of bacteria during eating, as seen from the lowest incidence bacteria count of food poisoning so far is on the safe side
- O"The goal of bacteria of microbial contamination during processing" to

 "target bacteria number of microbial contamination when eating" to 1 / 10 of

 proper hygiene in the anticipation of substantial safety
- O Reproductive parts, parts that are not directly heated "process standards" only "number of target bacteria in microbial contamination during processing," not secured.

There must also be examined by a number of samples required microbial

Owhen setting up a system of heat processing step is essential to ensure

the validity of the system

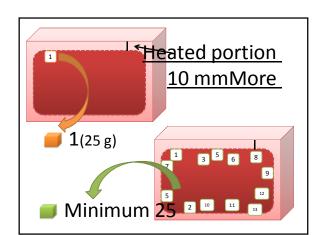
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" Standards process" only "number of target bacteria in microbial contamination during processing," not secured.

There must also be microbial examined by a number of samples required



"The number of target bacteria in microbial contamination during processing (PO) confirmation has been achieved Number of samples is required?



Thank you for your attention.