LISTERIA MONOCYTOGENES OUTBREAK RESPONSE





Venue: ICAM Date: 20/04/2018 Presenter: JM MOKGATLE





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EH Investigations & Regulatory Framework



- > EH investigations are conducted in terms of:
 - Regulations Relating to EH Investigations and Inspections;
 - Section 80 and 83 of the National Health Amendment Act, 2013 (Act No. 12 of 2013);
 - Section 10 and 11 of the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act 54 of 1972).





EH Investigations & Regulatory Framework



Food Category	Micro-organism	Sampl	ing Plan	Limits		Analytical reference	Stage when
		Ν	С	Μ	М	method	criteria is applied
RTE foods able to support the growth of Listeria	L. Mono	5	0	100c1	fu/g	EN/ISO 11290 -1	Product placed on the market during their shelf life
Monocytogenes				Absei 25g	nt in		Before has left the immediate control of the manufacturer





Listeria outbreak and EH investigations



- 12/01/18 nine children under the age of 5 years at Soweto presented to Chris Hani Baragwanath hospital with febrile gastro-enteritis.
- The paediatrician suspected foodborne disease, including listeriosis, as a possible cause.
- The (EHPs) were informed and on the same day visited the crèche, and obtained samples from two unrelated polony brands (manufactured by Enterprise and Rainbow Chicken Limited (RCL) respectively) and submitted these to the laboratory for testing.
- L. monocytogenes was isolated from stool collected from one of the ill children, and from both of the polony specimens collected from the crèche.





EH Investigations & Genome sequencing



- These isolates were sent to the NICD Centre for Enteric Diseases, and underwent whole genome sequencing and genomic analysis. The ST6 sequence type was confirmed on all three isolates on 27/01/18.
- EHPs, NICD and DAFF representatives, accompanied by 3 technical advisors from the WHO in Geneva, visited Enterprise food production in Polokwane and conducted an extensive environmental scanning and environmental sampling.
- The factory produces 62% of cold meat in the country.
- L. monocytogenes was isolated from over 30% of the environmental samples collected from this site.
- Whole genome sequencing analysis was performed from samples from the same Enterprise factory.





Genome sequencing outcome



- 3/3/18 the outbreak strain, ST (Sequence type) 6, was confirmed in at least 16 environmental samples collected.
- Several ready-to-eat processed meat products from the Enterprise facility located in Germiston contain L. monocytogenes.
- In addition 109 contacts around Soweto were interviewed by NICD officials and 85% of them confirmed eating polony.
- The strain responsible for the outbreak was largely ST6.





Free State Province







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Link to RCL



- Link to under 5 children that were admitted at Chris Hani Baragwanath hospital with febrile gastro-enteritis.
- The (EHPs) obtained samples from two unrelated polony brands manufactured by Enterprise and RCL respectively and submitted these to the laboratory for testing.
- L. monocytogenes was isolated from stool collected from one of the ill children, and polony products <u>tested positive for L.</u> <u>monocytogenes</u>, but the sequence types of the isolates were not ST6.
- One of the outbreak strain isolated was ST204.
- Contamination of ready-to-eat processed meat products constitutes a health risk in terms of Section 2 of the FCD Act, 1972 (Act 54 OF 1972)





Link to RCL



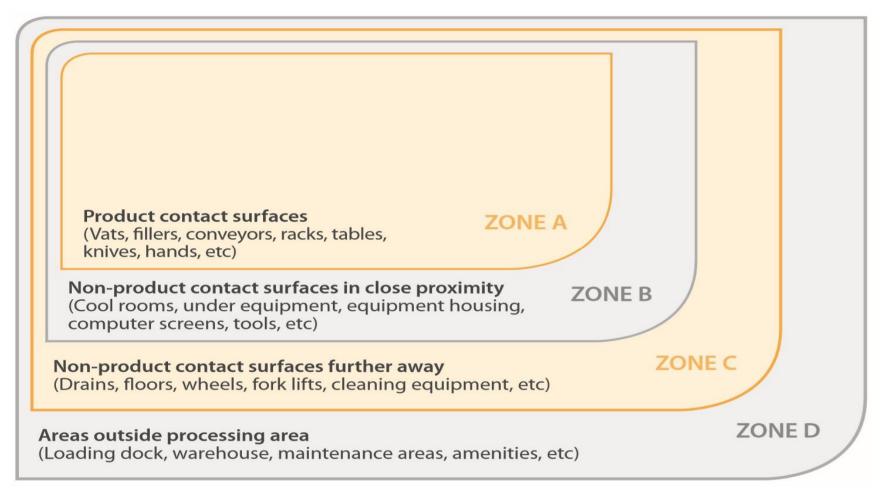
- On the 14/02/18 the FS DoH: EH in partnership with Fezile Dabi EHPs and NICD officials collected 195 environmental samples and 5 food samples from RCL factory at Wolvehoek.
- 10% of environmental samples collected by EHPs at this facility tested positive for L. monocytogenes.





Sampling zones







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Risk Description

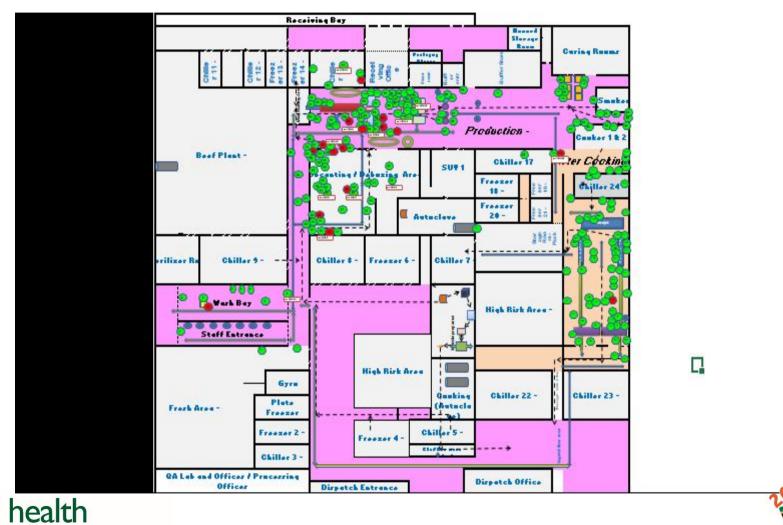


Zone	Description	Risk to product	Examples
А	Product contact surfaces		
	Surfaces over or through which product passes during processing (product contact surfaces/direct contact surfaces)	High	Conveyors, tables, racks, holding vats and tanks, utensils, pumps, valves, slicers, freezers, packing/filling machines
В	Non-product contact surfaces in close proximity to product		
	Surfaces that are in close proximity to the flow of product and may indirectly lead to product contamination (non-product contact surfaces/in-direct contact surfaces that are close to product)	High	Conveyors, exterior of processing equipment, refrigeration units, equipment control panels, service lines, equipment/ building above exposed product. May also include keypads and door handles
С	Non-product contact surfaces located further away from product		
	Surfaces located further away from the flow of products. These surfaces are less likely to lead to product contamination but may hinder efforts to control pathogens (non- product contact surfaces/in-direct contact surfaces that are further away from product)	Low – provided good manufacturing practice (GMP) establishes control systems	Drains, walls, floors, condensate, hoses, trolleys, pallets, conveyor belts, forklifts, computer keyboards and telephones, switches, etc.
D	Surfaces outside the processing area		
	Surfaces outside of the premises but includes areas through which people, equipment and ingredients may pass	Low	Locker rooms, cafeterias, entry/access ways, pallets and pallecons, loading bays, roofs, gutters, waste pits, garbage storage areas





RCL Environmental Sample Floor plan





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Samples Collected





FOOD CONSULTING SERVICES

ENTERPINEE NO. 2000/099646/22 VAL. NO. 4660176918

 P.O. Box 1461
 Tel: (011) 315-5007/8

 Halfway House
 Fax: (011) 315-5029

 1685
 info@foodconsulting.co.za

 South Africa
 www.foodconsulting.co.za



OUR REFERENCE: FCS 886 02 18 26 FEBRUARY 2018

NATIONAL INSTITUTE FOR COMMUNICABLE DISEASES NO. 1 MODDERFONTEIN ROAD SANDRINGHAM 2131

Attention: Nevashan Govender

MICROBIOLOGICAL TEST REPORT RE: PROCESSED MEAT EVALUATION

The following samples were received on 15 February 2018 for microbiological evaluation only.

Sample	Description								
SS-159-1	Production Emulsifier blade								
SS-159-2	Production Emulsifier side								
SS-159-3	Production Emulsifier opening								
SS-159-4	Production lander panel box								
SS-159-5	Production blender panel 2								
SS-159-6	Production staircase handle 2								
SS-159-7	Production blender panel								
SS-159-8	Production cossine blender								
SS-159-9	P17 cozine blender								
SS-159-10	P19 chiller 16 drain								
SS-159-11	P21 production floor emulsifier drain								





Sample results



RESULTS

Sample ref.	L. monocytogenes (detection)
SS-159-1	ND
SS-159-2	ND
SS-159-3	ND
SS-159-4	ND
SS-159-5	ND
SS-159-6	Positive
SS-159-7	ND
SS-159-8	ND
SS-159-9	Positive
SS-159-10	Positive
SS-159-11	Positive
SS-159-12	ND
SS-159-13	ND
SS-159-14	ND
SS-159-15	ND
SS-159-16	ND
SS-159-17	ND
SS-159-18	ND
SS-159-19	Positive
SS-159-20	ND
SS-159-21	ND
SS-159-22	ND
SS-159-23	Positive





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Methodology



METHODS

The following standard FCS method was used. Tests marked (*) "Not SANAS accredited" in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

TM051 VIDAS Listeria monocytogenes II (LMO2)

The results in this report reflect only the analysis of the above-mentioned samples in the condition they were received (comments/ notes will be made in the event that samples deviate from the norm or any visual defects are noted). Only the results of the indicated methods are accredited, the comments and interpretations of the above mentioned results fall outside the scope of accreditation. This report may not be reproduced except in full. Extracts can be reproduced only with the express written permission of an FCS signatory. Method validations performed, prove that the results obtained and recorded in this report, fall within a 95% confidence level at k=2.





National Measures Implemented



- Pronouncement by Minister to control outbreak. <u>https://www.gov.za/speeches/minister-aaron-motsoaledi-update-listeriosis-outbreak-south-africa-4-mar-2018-0000</u>
- Ministerial marching orders:
 - The National Consumer Commission (NCC) issued the manufacturers, i.e., RCL and Enterprise with safety recall notices in terms of Section 60(2) of the Consumer Protection Act;
 - The safety recall for the affected products including the entire distribution networks, both domestic and international;
 - Compliance notices to be issued by the Environmental Health Practitioners in terms of the National Health Act;
 - Temporary suspension of export registration documents of the affected two companies until further notice.
 - Members of the public to avoid all processed meat products that are sold as ready-toeat.



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Progress to date



Safety recall of the affected products by NCC

NATIONAL CONTINUE COMMISSION	
Alson Produces Advances	NATIONAL CONSUMER COMMISSION
A MARKAN CARLY AND AND A MARKAN CARLY BD.	beprint Produce Make Load <u>a main difference print</u> TSL-00-04 THE, MIC 2010, Print Address, F. C. Do. 1000, Horse Fuel, Hill, Printer Mathema Exclusing, C. Such Alfraim Banas Villardinis Carpan, Special of Prairies, Ball
tent Attention: CEO/ EXECUTIVE OFFICER	A STATUTE OF A S
TIGER BRANDS LIMITED C/0 ENTERPRISEFOODS	Following the announcement of the Department of Health regarding the Dutbreak of Listeriosis in South Africa, the NICD has recently identified the following products as some of the possible source. In order to exercise caution, we require that the following products be recalled urgently.
Executive: Legal & Group Company Secretary Tiger Brands Limited 3010 William Nicol Drive, Bryanston, Sandton Tel: +27 11 840 4225 Fax: +27 11 514 0477 Cell: +27 60 995 7142 Email: <u>cosh_neidoo@Hiterheands.com</u>	Enterprise Polony Enterprise Smoked Russians Enterprise Frankfurters Specifically we require your entity to do the following urgently;
INW Indale Group Company Secretary Tel: 011 640 4345 Email: <u>ian: idale/@licer Invands.com</u>	 Notify the National Consumer Commission by filling-in the notification attached to the guideline, by Tuesday 06 February 2018; Immediate upliftment and quarantine of the products from the market; Immediate notification of all trading partners; Notification to all competent authorities both local and international.
Sir/Madam	For any clarity regarding the above contact the NCC on the above details;
AFETY RECALL NOTIFICATION FOR ENTERPRISE FOODS IN TERMS OF SECTION 60 OF THE DNSUMER PROTECTION ACT NO 68	Regards,
National Consumer Commission is a body established in terms of Section 85 of the Consumer ction Act as an organ of state within the public administration with a mandate to ensure consumer ction throughout the republic of South Africa.	White con laston v Was Thesi Mabusa
onsumer Protection Act 68 of 2008 under section sixty subsection two (60)(2), states that if the insision has reasonable grounds to believe that any goods may be unsafe, or that there is potential the public from the continues use of or exposure to the goods, and the producer or importer of goods has not taken any taps required by an applicable code contemplated in subsection one(1), ammission, by written notice, may require that producer to;	Deputy Commissioner National Consumer Commission
anduct an investigation contemplated in subsection [1]; ir	
arry out a recall programme on any terms required by the Commission	





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- The recall of implicated food products was announced on 04 March 2018. However, it is expected that new outbreak-related cases will continue to be reported, for the following reasons:
 - the incubation period of listeriosis can be up to 70 days;
 - the implicated food products have a long refrigeration shelf life, and it is possible that despite the recall some products were not removed from retail/home settings, and consumption might occur
 - the possibility of cross-contamination of other types of foods in the retail or home setting may result in additional cases

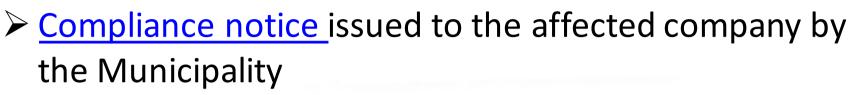




Progress to date (Cont..) Temporary suspension of Export documents of the affected premises by the Department of Agriculture. agriculture, forestry & fisheries mannant Agriculture, Forestry and Fisheries REPUBLIC OF BOUTH AFRICA Directorate: Veterbery Public Health, Department of Agriculture, Foresity and Faheries Delpen Bulding, Dio Annie Botha & Union Streets, Review, Pretonie, 0084 Physia Bag X138, Pretoria 0001 Enquiries: Dr Mphane Molefe + Tal: +27 12 319 7688+ Fax: +27 12 319 7698 + E-mail: Mphane/Mittoff.cov.28 To: Provincial Executive Officers (PEO) SUSPENSION OF EXPORTS FROM ,RCL FOODS CONSUMER (PTY) LTD CHICKEN WOLWEHOEK (ZA 32) AND ENTERPRISE FOODS POLOKWANE (ZA 33) As a result of the outcome of the Listeria outbreak investigation, a decision has been taken under Section 14(7) of the Meat safety Act 2000 (Act No. 40 of 2000) to prohibit the export of meat and meat products produced from the two establishments below: · ZA 32: RCL Foods Consumer (Pty) Itd Chicken, Wolwehoek (Free State Province), and ZA 33: Enterprise Foods, Polokwane (Limpopo Province) You are requested to suspend export certification, with immediate effect, of products : produced at these two establishments. As these two establishments also exported either directly or indirectly via retailers and distribution centres, you are also kindly requested to provide details of consignments that originated from these establishments that were certified in your respective Provinces (from April 2017 to date) using the attached template. Further details on lifting of the suspension will be provided in due course once appropriate corrective actions have been instituted. Your assistance is much appreciated. Yours faithfully **Director: Veterinary Public Health** EARS OF Date: 05/03/2018 health Department:

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Progress to date (Cont..)





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Progress to date



\blacktriangleright Response from <u>the</u> industry on food safety recall.



3010 William Nicol Drive, Bryanston Tet +27(11) 840-4000 Fax: +27(11) 514-0084

PO Box 78056, Sandton 2146, Republic of South Africa

06 March 2018

The National Consumer Commission By Email: P.Moilwa@thencc.org.za

Dear Prudence

RE: ENTERPRISE FOODS - RECALL

We refer to the above matter and our letter dated 05th March 2018.

Please note that it has been brought to our attention that the number of the helpline provided had a typo. Please note that the correct number is as follows: 0860 33 33 10.

We apologise for any inconvenience caused.





3010 William Neul Drive, Bryanston Tet. +27(11) 840-4000 Fax: +27(11) 514-0064 PO Box 78056, Sandton 2146, Republic of South Africa

05 March 2018

The National Consumer Commission By Email: <u>P.Moilwa@thencc.org.za</u>

Dear Prudence

RE: ENTERPRISE FOODS - RECALL

We refer to the above matter and thank you and your team for a very constructive meeting this morning.

As discussed, please find attached:-

1) List of known export Countries;

 List of affected products which are subject to the recall as well as a list of non-affected products.

We confirm that our Consumer Helpline number is as follows: 0860 033 3310.

We will let you have the Recall Notification form and the additional information tomorrow, as undertaken.

Yours faithfully

A

AVISH KALICHARAN

	_		_		_		_						_		_		_			
	JU	LY	AL	UG	SE	PT	0	СТ	N	OV	D	EC	JA	N	FI	B	MA	RCH	YTD TO TAL	
COUNTRY	CASES	TONS	CASES	TON S	CASES	TON S	CAS ES	TO NS	CAS ES	TO NS	CASES	TONS	CASES	TONS	CASES	TON S	CASES	TON S	CASES	TO NS
BOTS WANA (Via Senn Foods Botswana)					0	0.0													0	0.0
LES OTHO (Via Vector Bloenfontein)	130	1.0	236	1.8	285	2.2	189	1.5	234	1.8	232	1.8	178	1.4	194	15	-34	- 0.3	16 44	12.9
MOZAMBIQUE (Via Tio Peixe Mozambiqu			1404	11.2			1404	11.2			7020	56.2							98 28	78.6
NAMI BI A (Via Vector Windhoek)									518	3.8	674	5.1	0	0.0					11 92	8.9
SW AZILAND (Via Logico Swaziland)	0	0.0	0	0.0	3	0.0	-3	0.0											0	0.0
GrandTotal	130	1.0	16 40	13.1	288	2.2	1590	12.7	752	5.7	7926	63.1	178	1.4	194	1.5	-34	- 0.3	12 664	100.5



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Safety recall of the affected products by the industry







Disposal of recalled products



The Department of Environmental Affairs in partnership with the DoH issued a directive to Municipalities and the public on the <u>correct disposal</u> of <u>recalled products</u>.



environmental affairs Seatown Normania Abus Revus of adure Amaga

Hef: Despublicat Mathelia Governder Tel: (012) 500 5092 Email: erigtwarder@jerwinsenet.gov.ce stone.erationsterit.acm.20

Dear VedeniSr

SPECIAL PERMISSION TO ADDEPT LISTERIA CONTAMINATED FOOD PRODUCTS FOR INCATMENT AND/ON DISPOSAL

In tight of the recent colloresk of Listedock and place the potential to it is cause tool-borne likthreatening disease a survice of tool problem have been recalled and request hispose. This item more to inform you that such water many be accepted for theyteen it a librated inclusation, sother or on-processing facility or may be accepted for disposed at a Cause A landfill should possible accepted for disposed at a Cause A landfill should possible accepted for disposed at a Cause A landfill should possible accepted for disposed at a Cause A landfill should possible accepted of such wate will be suspended until such time as all of the works have been treated and/or disposed at a

The receiving waste management locitly must underlate a risk assessment and solved a risk management plan to the Department demonstrating that the populated management codes will amaze that the results in managed in south a resp that is to long posed a risk to harmon or winnin handly, or the environment. The modulus facility must also prepare and saterith manifest todamentation to the Department indicating the temages of waster prepared on who.

Your exception in this legand will be much appreciated

Yours since:



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Action Plan by RCL



RCL developed the following <u>action plan</u> for consideration by the collective

		RCL FOODS Consumer (Pty) Ltd Total Integrated Management System							
RCL	ACTION PLAN REPORT FOR WOLWEHOEK PRODUCTION FACILITY								
DATE	13 March 2018								
NON-COMPLIANCE		ce issued a Compliance Notice in terms of section 83 (1) (3) of the National Health Act (Act 12 of 2013) to Wolwehoek on the 5th March 2018							
SAMPLING RESULTS & CONTRAVENTION	monocytogenes	s collected by the NICD on the 14 February 2018 at Wolwehoek facility (1 Station Road, Wolwehoek, Salsolburg) food processing facility tested positive for Listeria in 83(1) (c) of the National Health Amended Act, 2013 (Act 12 of 2013) as amended							
SCOPE OF ACTION PLAN		a gap audit at Wolwehoek to provide the Department of Heath with a comprehensive action plan detailing steps to achieve the acceptable levels of Listeria nies. (further discussions wiith all relevant stakeholders to confirm acceptable levels- Listeria monocytogenes in polony							
PROJECT SPONSER	Scott Pitman	RCL Foods Consumer Division Managing Director							
PROJECT LEAD	Anton Geustyn	RCL Foods Chicken Division Manufacturing Director							
	Najib Salim	RCL Foods Consumer QA and Food Safety Executive							
	Rhona Mbele	RCL Foods Consumer Risk Executive							
	Rosalind Govender	RCL Foods Consumer QA Compliance Manager							
PROJECT TEAM	Koen Le Roux	RCL Foods Consumer Engineering Executive							
	Liam Paterson	RCL Foods Chicken Division Manufacturing Executive – Further Processing							
	Vindesh Soorujlall	RCL FOODS Chicken Division SHEQ Manager Further processing							
	Ravi Naidoo	RCL Foods Chicken Division Operations Manager Wolwehoek							



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BACKGROUND



Samples collected by EHPs in response to the outbreak

	# Swabs	# positives	# Food Samples	# positive	Action taken
Fezile Dabi District	221	28	32	0	Issued a compliance notice to one facility and awaiting results of six facilities
Lejweleputswa	25		35	3	3 food samples tested positive and awaiting results
Mangaung Metro	0	0	46	7	Five patients advised to decontaminate the fridge.
Thabo Mofutsanyana	26	0	79	2	Awaiting results for 81 samples. 3 butcheries awaiting issuance of compliance notice.
Xhariep	No report	No report	Nil report	Nil report	N/A
Total for Province	272	28	192	12	







Post recall information

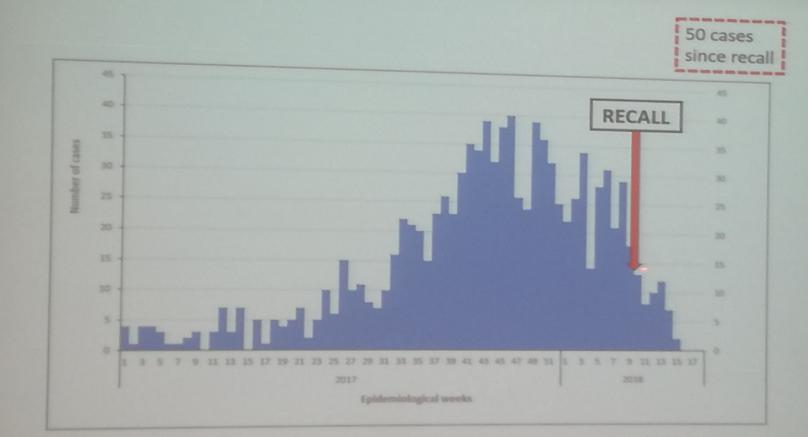


Figure 1: Epidemic curve of laboratory-confirmed listeriosis cases by epidemiological week and date of sample collection, South Africa, 01 January 2017 to 17 April 2018 (n=1 019)



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Issues to Note



- There are 113 food processing plants in the country;
- The focus is on RTE products such as polony and other cold meats;
- Food samples must be collected by Municipal EHPs from food processing plants, retailers and lab confirmed cases;
- On the 15/12/17 Listeria was declared a notifiable medical condition because it met two of the IHR prescribed criteria:
 - Communicable;
 - Rapid spread in communities;
 - Displayed unusual behaviour;
 - Cross border restrictions;



- Spillage to neighbouring countries.



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Department:

National Listeriosis Control



- Public Health Emergency Operational Centre has been established through the assistance of WHO;
- Chaired by Dr Yogan Pillay, DDG: HIV/AIDS, TB and MNCH;
- Based at NICD offices in Johannesburg.
- It will be operational for three(3) months;
- The project is divided into three phases (Phase 1 3)
- Developed National Listeriosis Response Plan;



Organisational structure has been established; health

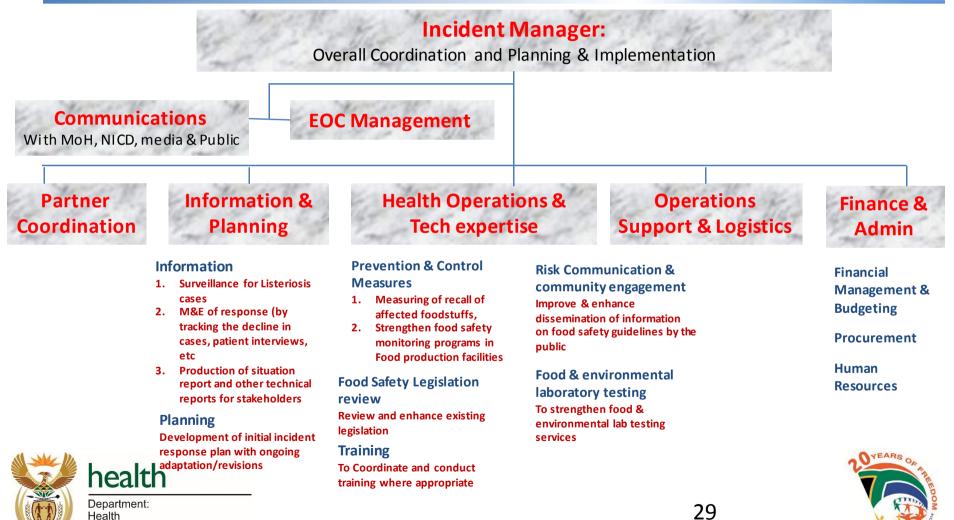
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IMT Organogram



Draft Joint Incident Management Team (IMT) Organogram



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National Listeriosis Response Plan



Objectives Supporting the overall goal of the response

- 1 Strengthening multisector coordination under one structure, working as one team
- 2 Strengthening Listeriosis surveillance to ensure timely detection and response to clusters and outbreaks
- 3 Strengthening lab capacity to support food and environmental testing, including enumeration of the levels in the food
- 4 Strengthening food safety monitoring programs in food production facilities and monitor the recall of implicated foodstuffs
- 5 Review and enhance existing legislation relating to food safety, enforcement and outbreak response
- 6 To continuously inform stakeholders and public in an accurate, timely and consistent, transparent and comprehensive way on the response to Listeriosis outbreak in South Africa





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Pha	SE 1 (09 - 26 April)	Phase 2 (26 April – 20 July)	Phase 3	3 (20 July – 31 August)
Stake	holder communication (keeping stak	eholders DoH, Dti, DAFF, DEA, industry, medi	a, public) i nf	formed re: plan and progress
Infor	mation : Production of information pr	oducts, sitraps, reports, etc		
Legis	lative review:Immediate support for	inspection teams,		~
	P&C, Tiger Brands & RCL: Expect re	view group to a dvise & Action		Recommendations
	 Risk Assessment: 1. List of food production facilities & metadata 2. Identification of facilities to inspect 		Risk assessment	
	Risk Communication:	Risk Communication Activities	nent	
	 Preparation of material Training 		trevi	
	 P&C Inspection team (n=10 -15) 1. Assembling a team, 2. Preparation of checklist, SOP, 3. Training 	P&C Inspection team (n=10 -15) Inspection and follow up on all identified facilities	review of findings	
	P&C – Recall: collection of data		ings	
	nation (sequencing): outsourcing, ng & database	Information (sequencing): sequencing of all isolates		
datab	Food Lab: Optimisation of SOPS, base, infrastructure, DNA ction etc.	NHLS Food Lab: testing of facility sampling		2 YEARS
Infor:	Detection and investigation of clinic	al cases		
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Key activities



- Key activities
 - Information
 - Epi and surveillance;
 - Situation report
 - Legislation
 - Review an alignment of food safety legislation
 - Environmental Health
 - Monitoring and recall of affected food;
 - Conduct risk assessment and identify high risk food production facilities;
 - Conduct inspections
 - Train Provincial and district EHPs;
 - Food Laboratory Testing
 - Strengthen and capacitate food safety testing in line with the international and new guidelines





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How Provinces can assist



- Monitor and control literia and prevent future outbreaks;
- Strengthen provincial health systems;
- Support National Emergency Response Plan (ERP).





How provinces can assist



- Be aware of the ERP distribute the 2 paper summary in the department, esp with your media liaison officer;
- Work with the IMT in the following areas:
 - Epi and surveillance case notifications, activate your provincial ORT, share activities with the IMT (reports);
 - Risk Management/Communications continue with the activities, address the misunderstandings, promote food safety, share activities with the IMT;
 - Environmental Health, DAFF/VPH participate in training, work with the districts, participate in inspections, followup on inspections and share activities with IMT



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THANK YOU **KE YA LEBOGA**



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