

# Aardvark Dental

on Papamoa

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Phylum Tubulidentata

NZDC

Re Consultation on Cross Infection

Two years ago I sent you test results for the water lines in several dental units

Only one met the standard and that unit was on town water.

The other units all had water bottles and their results were in the region of 35,000 CFU,s per ml

The flora included a high level of coliforms.

Hygiene in a dental surgery is only as good as the weakest link in the chain.

A perfectly sterile hand piece is only as good as the water supplied to it and the patient is forced to breathe the aerosol produced.

There is no requirement to test water lines.

An ultra violet in line industrial water sterilisation unit would help with this issue.

Autoclaves.

The requirement to test all autoclaves daily is not rational

My autoclave is new. It keeps a digital record and prints a record as well

The vacuum test prints out pressures and times and then validates itself

The helix test goes through the same steps and then prints temperatures and pressures obtained and the time for each stage. The sterilising cycle prints out the same as the previous tests with max and min temperatures held and can be checked visually.

At the end of each cycle the unit self- validates.

Cycles. My new unit is under warranty for 1000 cycles .It is used once or twice a day.

That means for 1000 cycles a unit used once a day will use 66% of its cycles under warranty doing tests. I have asked suppliers of autoclaves and technicians servicing them which is more important, time sitting on the bench or the number of cycles.

It is the number of cycles that determine wear and tear not the time between them.

Testing should only be required per specified number of cycles, not daily.

Five cycles a week is different to 10 cycles a day.



Helix test

This test is not a validated test. Its success depends on the cap producing a perfect seal. This cannot be confirmed. The helix test relies on a colour change, a similar change that occurs on every pouch put through the steriliser.

The Surgery.

The way instruments are used and handled in the surgery has a significant effect on their hygiene at the point of use.

Yours,

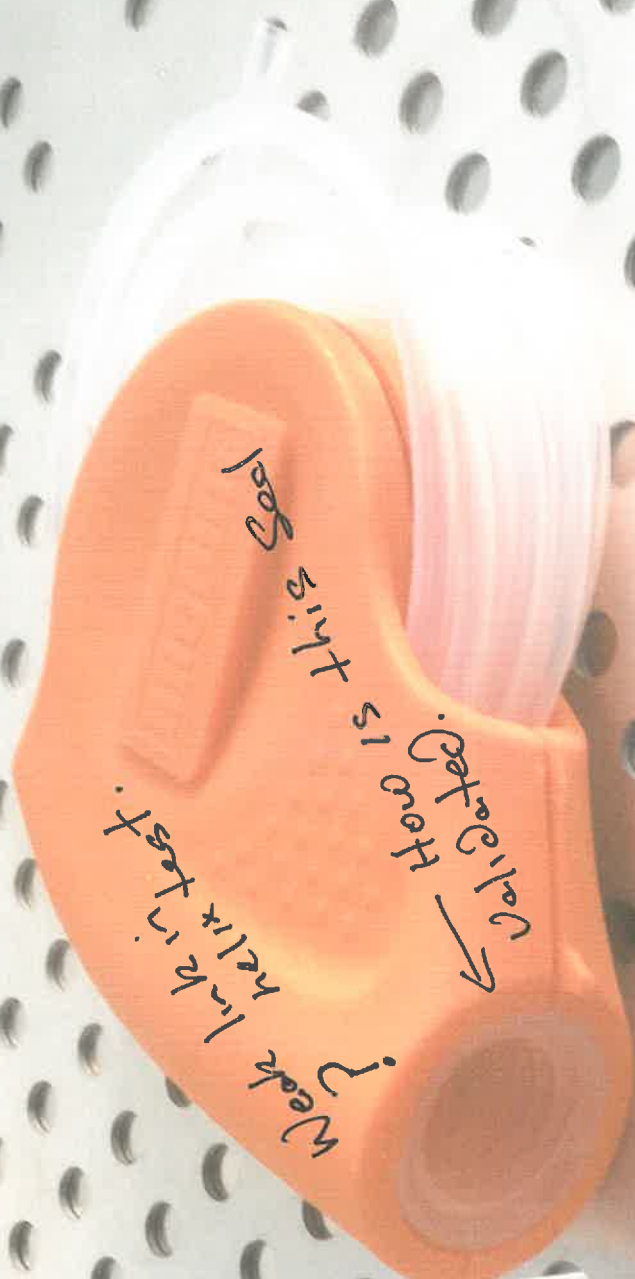


Roslyn Skinner

Encl: Helix test unit

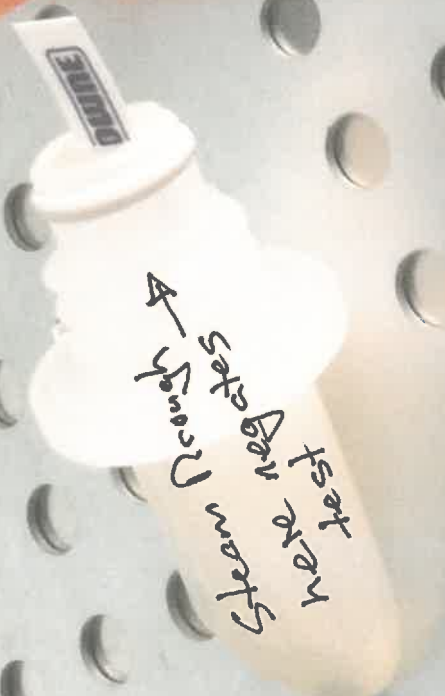
Print of steriliser cycles

H



Weak link in test.

Hot is 1100F  
Validated.  
Seal



Steam  
Safety  
Test  
Seal  
Validated

The seal here is not  
Validated

MIDMARK  
 NEUMED B23  
 RELEASE: E.5.4a-35  
 S/N: E23NMC2334  
 DATE: 19:10:15  
 C/N: 00531

CYCLE: "A"  
 VACUUM TEST  
 START

Hh:mm:ss	°C	bar
04:54:25	019.2	0.045
STABILISATION		
04:57:42	019.1	-0.85
04:58:41	019.2	-0.86
04:59:41	019.3	-0.858
05:00:41	019.4	-0.8
05:01:41	019.5	-0.8
05:02:41	019.6	-0.8

MAINTAIN. DATA

P2 =	bar
05:02:43	019.6
05:03:43	019.7
05:04:43	019.9
05:05:43	020.0
05:06:43	020.1
05:07:43	020.2
05:08:43	020.3
05:09:43	020.4
05:10:43	020.5
05:11:43	020.6
05:12:41	020.6

P3 = -0.856 bar  
 P3-P2: 0.002 bar  
 GRAB: 0.2 mbar/min  
 END CYCLE: OK

OPERATOR :

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MIDMARK  
 NEUMED B23  
 RELEASE: E.5.4a-35  
 S/N: E23NMC2334  
 DATE: 19:10:15  
 C/N: 00533

CYCLE: "B"  
 hollow wrapped  
 START

Hh:mm:ss	°C	bar
13:23:21	045.6	0.059
13:31:25	053.3	-0.851
13:35:10	107.7	0.511
13:35:47	105.2	0.236
13:39:01	073.1	-0.701
13:41:53	110.3	0.501
13:42:25	105.2	0.239
13:46:04	079.2	-0.701

STERILISATION

Hh:mm:ss	°C	bar
13:54:36	134.8	2.123
13:55:36	135.3	2.154
13:56:36	135.4	2.157
13:57:36	135.4	2.165
13:58:36	135.2	2.145

Min. 134.8  
 Max. 135.6  
 bar 2.123

DRYING

Hh:mm:ss	°C	bar
13:59:40	135.3	2.167
14:00:40	111.1	0.471
14:01:40	098.9	-0.292
14:02:40	102.7	-0.569
14:03:40	101.9	-0.691
14:04:40	099.1	-0.666
14:05:40	096.0	-0.600
14:06:40	092.2	-0.594
14:07:40	089.9	-0.593
14:08:40	087.8	-0.571
14:09:40	087.5	-0.591
14:10:40	086.6	-0.599
14:11:40	085.9	-0.604
14:12:40	084.7	-0.617
14:13:40	083.6	-0.527
14:14:36	085.7	-0.130

END CYCLE: OK

③

EN607-5 132-137°C

MIDMARK  
 NEUMED B23  
 RELEASE: E.5.4a-35  
 S/N: E23NMC2334  
 DATE: 19:10:15  
 C/N: 00532

CYCLE: "B"  
 Helix / END TEST  
 START

Hh:mm:ss	°C	bar
05:55:49	022.1	0.051
06:04:46	045.1	-0.851
06:08:34	105.7	0.506
06:09:03	104.1	0.235
06:11:50	068.8	-0.701
06:14:36	109.6	0.504
06:15:08	105.8	0.236
06:18:21	075.8	-0.701

STERILISATION

Hh:mm:ss	°C	bar
06:27:08	134.9	2.120
06:28:08	135.3	2.149
06:29:08	135.4	2.154
06:30:08	135.4	2.164

Min. 134.8  
 Max. 135.6  
 bar 2.176

DRYING

Hh:mm:ss	°C	bar
06:30:42	135.2	2.149
06:31:42	109.6	0.388
06:32:42	100.6	-0.324
06:33:42	103.7	-0.485
06:34:39	103.0	-0.131

END CYCLE: OK

OPERATOR :

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