



**FATE TRACKING – EFFECTIVENESS OF  
ANTIBIOTIC TREATMENT ON STONY CORAL  
TISSUE LOSS DISEASE.**





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# SCTLD IS A BIG DEAL!

- Corals can and will die if not treated.
- Heavily impacted corals (22 species)
  - Stony Corals (reef building)
    - MMEA\*
    - Orbicella Spp (OFRA,OANN,OFAV)
    - DLAB
    - PSTR
    - MCAV
    - PCLI
    - DCYL\*







# TREATMENTS ARE EXPERIMENTAL

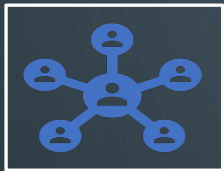
- Amoxicillin + Base2B Paste
  - 8:1, amox : base2b
- Applied to lesion of affected tissue



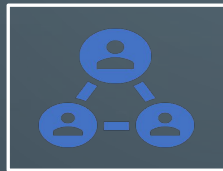


# WHO TREATS CORALS?

All coral treatment activities conducted by the USVI Coral Disease Strike teams are permitted through the USVI Department of Planning and Natural Resources.



**Tier 3 – Strike  
team volunteer**

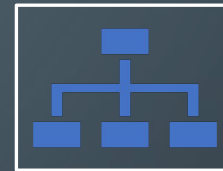


**Tier 2 –  
Intervention  
Diver**

**Diver**

Surveys

Interventions (must have  
field team leader  
present to perform  
interventions)



**Tier 1 – Strike  
Team Field  
Leader**

**Leader**

Dive-day logistics

Data management

Site scheduling



# FATE TRACKING

STX Fate Tracking .xlsx

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Tag Number

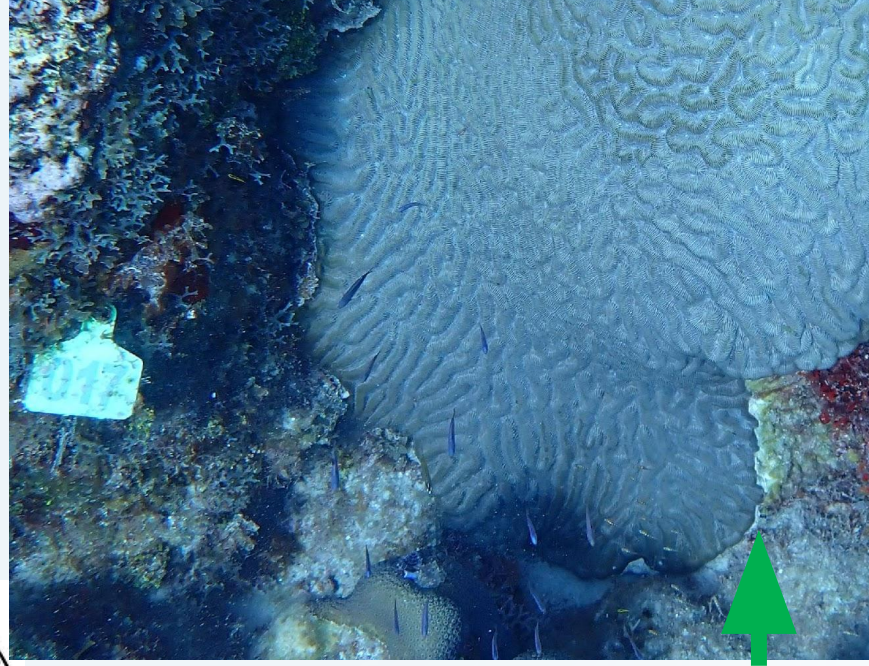
Site Name	Date	ID Code	Intervention ID	Site ID	Site GPS Lat	Site GPS Long	Colony GPS Lat	Colony GPS Long	Tag Number	Tag Color	Lesion	Species	Diver	Treatment	Status	Success?	New Lesion(s)?
ane Bay	5/27/2021	CB-CNAT-17-C OL		CB	17.7749	-64.8115			17	Green	COL	CNAT	LMH	Amoxicillin/Ba se2b	Declining		Yes
ane Bay	6/24/2021	CB-CNAT-17-C OL		CB	17.7749	-64.8115			17	Green	COL	CNAT	LMH	Amoxicillin/Ba se2b	All Lesions Halted	Yes	No
ane Bay	7/5/2021	CB-CNAT-17-C OL		CB	17.7749	-64.8115			17	Green	COL	CNAT	LMH	Amoxicillin/Ba se2b	All Lesions Halted	Yes	No
ane Bay	7/10/2021	CB-CNAT-17-C OL		CB	17.7749	-64.8115			17	Green	COL	CNAT	LMH	Amoxicillin/Ba se2b	Declining	No	Yes
ane Bay	7/22/2021	CB-CNAT-17-C OL		CB	17.7749	-64.8115			17	Green	COL	CNAT	LMH	Amoxicillin/Ba se2b	All Lesions Halted	Yes	No

Colony Level Data | 1 Lesion Level Data | STT Lesion Data | STT Missing Photos | Colony Alpha | Meta | Data Summaries | Sheet1





**First Treatment**



**Treatment Success!**



**Treatment Failure and 2<sup>nd</sup> treatment applied**



Lesion Level  
Treatment

Success

vs

Failure



# Colony Level Success

March 2021

	CNAT	DLAB	MCAV	MMEA	OFAV	OFRA	PSTR	Grand Total
Unsuccessful	9	2	8	1	2	1	1	24
Successful	32	6	30	0	26	25	3	122
Grand Total	41	8	38	1	28	26	4	146
Success Rate	78.05%	75.00%	78.95%	0.00%	92.86%	96.15%	75.00%	83.56%

August 2021

Success?	CNAT	DCYL	DLAB	MCAV	OFAV	OFRA	Total
No	23	2	5	12	2	1	45
Yes	36	15	29	43	38	35	196
Total	59	17	34	55	40	36	241
S. Rate	88.24%	85.29%	78.18%	78.18%	95.00%	80.77%	



# Thank You!

## A Special Thank you

Makeda Okolo

Leslie Henderson

Matthew Davies

Michael Funk

Joseph Townsend



CORE™

