

## MBET Natural Marine Extract™ Study

The object of this study, was to measure the benefit of Natural Marine Extract™ on 4 of the most difficult problems in dermatology: 1) Fine textured wrinkles of the face and chest. 2) Easily bruised skin of the hands and arms. 3) Thin skin of the face, chest, arms and forearms. 4) Rosacea.

The Natural Marine Extract™ study, with 283 subjects, was done over a four-month period of time. The subjects applied a 2% Natural Marine Extract™ in Liposome lotion to the dorsum of the left hand and forearm, left anterior chest and left cheek. They placed 0.2ml (amount delivered with one pump) to each location and massaged for 1 – 2 minutes. This application was every other day for two months and then twice a week for two months. Thus the total applications per patient were 40 – 50 over the four month period. The subjects were required to come to the office once a month for evaluation. The four categories which were evaluated were wrinkles (cheek and chest), rosacea (cheek) and thin skin (cheek, chest and hands/forearms). The evaluation was performed independently by the subject, the nurse and the doctor as a percent of improvement over the control (right hand/forearm, right anterior chest and right cheek) which only used the liposome lotion. The three evaluation percentages (subject, nurse, doctor) were averaged for each subject. That subject's average percent of improvement is combined with all of the other subject averages in each age category at 1, 2, 3 and 4 month intervals. This provided the study results as shown in the charts.

### Sample Size:

Number of subjects who started the trial	294
Number of subjects who dropped out	<u>11</u>
Number of subjects who finished the trial	283

### Demographics:

Male	151	Caucasian	275
Female	132	Asian	6
		Black	2

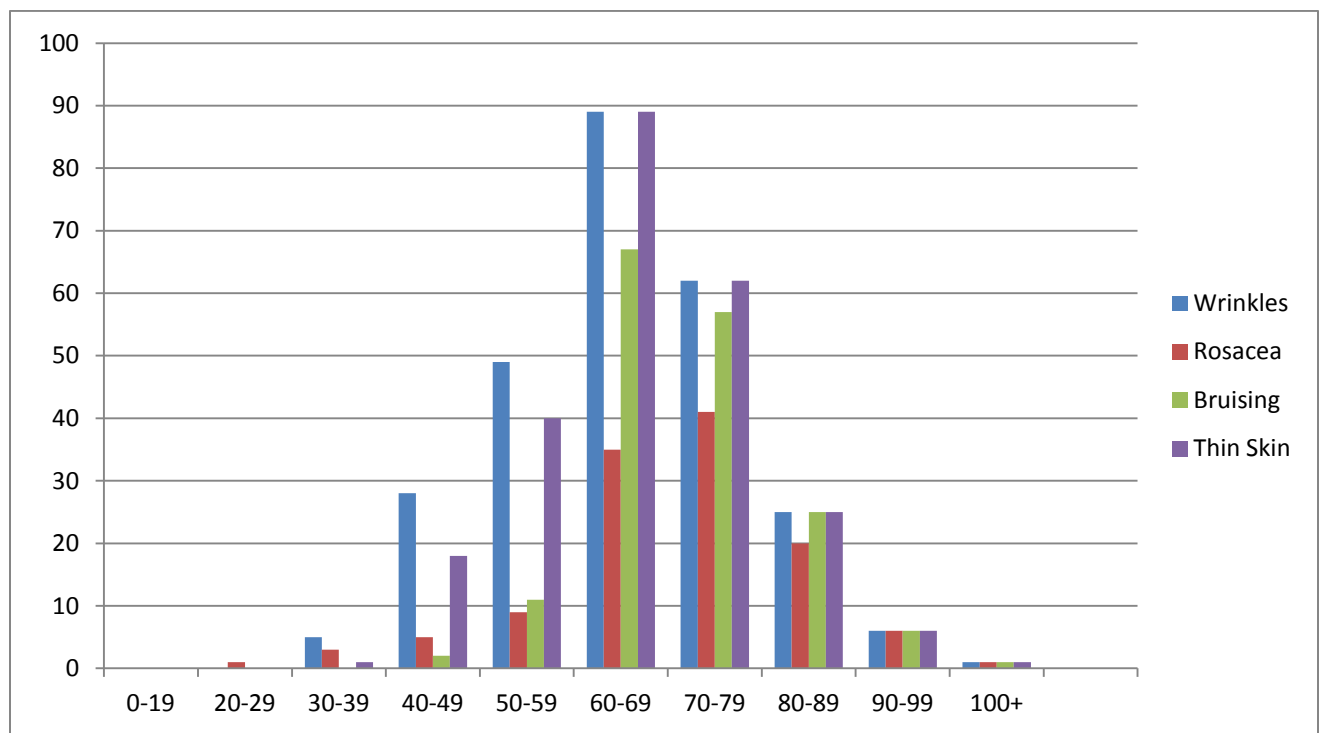
Age Distribution 14 – 101

Allergic Reactions: 0 (even with 14 subjects with seafood allergies)

## Summary of Subjects Age Distribution

Age Groups	Number of Subjects	Subjects with Wrinkles	Subjects with "Rosacea"	Subjects with Bruising	Subjects with Thin Skin
0 -19	3 (1.06%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
20 - 29	3 (1.06%)	0 (0%)	1 (33.3%)	0 (0%)	0 (0%)
30 - 39	13 (4.59%)	5 (38.5%)	3 (23.1%)	0 (0%)	1 (7.7%)
40 - 49	32 (11.30%)	28 (87.50%)	5 (15.6%)	2 (6.3%)	18 (56.3%)
50 - 59	49 (17.31%)	49 (100%)	9 (18.4%)	11 (22.4%)	40 (81.6%)
60 - 69	89 (31.44%)	89 (100%)	35 (39.3%)	67 (75.3%)	89 (100%)
70 - 79	62 (21.90%)	62 (100%)	41 (66.1%)	57 (92%)	62 (100%)
80 - 89	25 (8.83%)	25 (100%)	20 (80%)	25 (100%)	25 (100%)
90 - 99	6 (2.12%)	6 (100%)	6 (100%)	6 (100%)	6 (100%)
100+	1 (0.35%)	1 (100%)	1 (100%)	1 (100%)	1 (100%)

## Observations



### Easy Bruising on Forearms/Hands

Age Groups	Number of Subjects	Subjects with Condition	% Improved 1 month	% Improved 2 months	% Improved 3 months	% Improved 4 months
0 -19	3 (1.06%)	0 (0%)	-	-	-	-
20 - 29	3 (1.06%)	0 (0%)	-	-	-	-
30 - 39	13 (4.59%)	0 (0%)	-	-	-	-
40 - 49	32 (11.30%)	2 (6.3%)	30%	50%	71%	92%
50 - 59	49 (17.31%)	11 (22.4%)	37%	54%	76%	89%
60 - 69	89 (31.44%)	67 (75.3%)	25%	39%	58%	74%
70 - 79	62 (21.90%)	57 (92%)	18%	29%	43%	58%
80 - 89	25 (8.83%)	25 (100%)	15%	22%	41%	52%
90 - 99	6 (2.12%)	6 (100%)	24%	17%	32%	37%
100+	1 (0.35%)	1 (100%)	10%	7%	23%	32%

### Thin Skin on Cheeks, Chest and Hands/Forearms

Age Groups	Number of Subjects	Subjects with Condition	% Improved 1 month	% Improved 2 months	% Improved 3 months	% Improved 4 months
0 -19	3 (1.06%)	0 (0%)	-	-	-	-
20 - 29	3 (1.06%)	0 (0%)	-	-	-	-
30 - 39	13 (4.59%)	1 (7.7%)	38%	59%	73%	90%
40 - 49	32 (11.30%)	18 (56.3%)	44%	63%	79%	94%
50 - 59	49 (17.31%)	40 (81.6%)	43%	67%	82%	92%
60 - 69	89 (31.44%)	89 (100%)	33%	46%	62%	78%
70 - 79	62 (21.90%)	62 (100%)	35%	42%	57%	73%
80 - 89	25 (8.83%)	25 (100%)	26%	37%	47%	56%
90 - 99	6 (2.12%)	6 (100%)	22%	34%	42%	54%
100+	1 (0.35%)	1 (100%)	0%	23%	33%	40%

### Texture Wrinkles (fine, non-major muscle wrinkles)

Age Groups	Number of Subjects	Subjects with Condition	% Improved 1 month	% Improved 2 months	% Improved 3 months	% Improved 4 months
0 -19	3 (1.06%)	0 (0%)	-	-	-	-
20 - 29	3 (1.06%)	0 (0%)	-	-	-	-
30 - 39	13 (4.59%)	5 (38.5%)	55%	95%	100%	100%
40 - 49	32 (11.30%)	28 (87.50%)	42%	76%	93%	96%
50 - 59	49 (17.31%)	49 (100%)	33%	64%	87%	92%
60 - 69	89 (31.44%)	89 (100%)	31%	49%	58%	84%
70 - 79	62 (21.90%)	62 (100%)	30%	44%	52%	67%
80 - 89	25 (8.83%)	25 (100%)	32%	43%	50%	58%
90 - 99	6 (2.12%)	6 (100%)	30%	36%	40%	45%
100+	1 (0.35%)	1 (100%)	25%	35%	*	43%

\* Subject missed the required evaluation

### Rosacea (loosely defined as persistent pinkness on the cheeks)

Age Groups	Number of Subjects	Subjects with Condition	% Improved 1 month	% Improved 2 months	% Improved 3 months	% Improved 4 months
0 -19	3 (1.06%)	0 (0%)	-	-	-	-
20 - 29	3 (1.06%)	1 (33.3%)	55%	100%	100%	100%
30 - 39	13 (4.59%)	3 (23.1%)	53%	65%	100%	100%
40 - 49	32 (11.30%)	5 (15.6%)	48%	62%	85%	100%
50 - 59	49 (17.31%)	9 (18.4%)	42%	53%	71%	89%
60 - 69	89 (31.44%)	35 (39.3%)	34%	46%	59%	74%
70 - 79	62 (21.90%)	41 (66.1%)	24%	34%	45%	67%
80 - 89	25 (8.83%)	20 (80%)	25%	36%	43%	53%
90 - 99	6 (2.12%)	6 (100%)	24%	31%	39%	43%
100+	1 (0.35%)	1 (100%)	25%	35%	45%	50%

## **Conclusion**

Four of the most difficult, recalcitrant problems in Dermatology are 1) Fine textured wrinkles of the face and chest. 2) Easily bruised skin of the hands and arms. 3) Thin skin of the face, chest, arms and forearms. 4) Rosacea. The controlled study dramatically shows the benefit of Natural Marine Extract on these problems. It shows the progression of improvement from the first to the fourth months and the higher degree of improvement inversely proportional to age. This degree of improvement has not been reproducible with any other known compound (treatment).