

**TMAU TEST RESULTS BATCHES #1 thru 10**  
**Highest to Lowest per Category / 208 PATIENT TEST RESULTS**

<b>TMA (umol/mmol creatinine)</b> Normal Range <1.57 umol/mmol creatinine	<b>TMAO (umol/mmol creatinine)</b> Normal Range <766 umol/mmol creatinine	<b>TMA/TMAO RATIO</b> Normal Range < 0.016
543.29	3154.75	281.6000
322.23	1541.07	57.9700
231.80	1481.83	55.5900
175.65	1455.33	48.0300
157.09	1431.08	2.8500
110.06	1339.96	1.4622
67.34	1258.29	0.7658
23.93	1241.89	0.5629
22.60	1226.40	0.1308
17.75	1019.29	0.0800
9.88	1007.52	0.0470
9.31	979.83	0.0395
7.51	939.81	0.0309
7.27	891.37	0.0262 TMAU1 Volunteer
6.44	878.47	0.0238
6.36	850.69	0.0224
5.45	843.05	0.0224
5.45	842.73	0.0208
4.46	834.51	0.0193
4.44	829.9 TMAU2 Volunteer	0.0192
4.33 TMAU2 Volunteer	760.85	0.0155
4.31	723.18	0.0148
4.12	705.83	0.0137
3.96	701.97	0.0137
3.34	670.85	0.0134
3.02	662.75	0.0134
3.00	640.25	0.0125
2.96	637.52	0.0119
2.91	637.43	0.0116
2.89	637.27	0.0109
2.84	618.01	0.0108
2.81	599.95	0.0108
2.78	596.98	0.0103
2.77	589.09	0.0102
2.73	577.82	0.0099
2.73	576.55	0.0098
2.55	563.85	0.0090
2.38	560.45	0.0089
2.37	541.55	0.0088
2.24	528.40	0.0088
2.22	497.73	0.0087
2.12	491.61	0.0087
1.94	480.50	0.0085
1.94	477.19	0.0084
1.93	447.42	0.0079
1.90	444.35	0.0078
1.86	431.22	0.0077

**TMAU TEST RESULTS BATCHES #1 thru 9**  
**Highest to Lowest per Category / 187 PATIENT TEST RESULTS**

1.85	422.55	0.0077
1.77	417.91	0.0077
1.77	417.45	0.0076
1.76	417.05	0.0074
1.72	406.22	0.0073
1.61	405.34	0.0072
1.57	402.92	0.0071
1.56	397.43	0.0071
1.54	394.43	0.0071
1.52	392.16	0.0071
1.50	391.70	0.0070
1.48	385.86	0.0067
1.47	383.62	0.0067
1.28	380.97	0.0067
1.24	380.82	0.0065
1.22	379.38	0.0064
1.20	375.85	0.0063
1.19	369.33	0.0063
1.15	368.20	0.0061
1.15	355.25	0.0061
1.14	346.64	0.0060
1.08	340.51	0.0060
1.08	337.70	0.0059
1.08	333.54	0.0059
1.07	330.00	0.0059
1.01	316.27	0.0059
1.01	314.84	0.0059
1.00	309.99	0.0058
0.98	291.24	0.0056
0.96	289.6	0.0056
0.92	279.50	0.0055
0.92	252.20	0.0055
0.91	251.20	0.0053
0.91	246.51	0.0053
0.89	243.84	0.0053
0.88	243.05	0.0052 TMAU2 Volunteer
0.86	239.63	0.0052
0.84	227.12	0.0052
0.84	226.31	0.0052
0.84	218.55	0.0051
0.81	211.12	0.0051 Negative for TMAU Volunteer
0.80	210.64	0.0051
0.78	209.09	0.0049
0.77	201.39	0.0048
0.69	198.95	0.0048
0.68	196.82	0.0047
0.67	190.57	0.0046
0.67	186.30	0.0045
0.65	171.54	0.0045
0.63	169.07	0.0045

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0.62	166.42	0.0044
0.61	164.07	0.0042
0.61	155.47	0.0042
0.57	155.02	0.0041
0.57	151.24	0.0041
0.55	147.06	0.0041
0.55	143.69	0.0040
0.54	141.20	0.0040
0.54	134.81	0.0040
0.53	134.63	0.0039
0.53	133.90	0.0039
0.52	131.35	0.0038
0.52	128.92	0.0038
0.51	123.88	0.0038
0.51	120.94	0.0038
0.49	120.13	0.0037
<b>0.48 TMAU1 Volunteer</b>	119.89	0.0037
0.48	113.06	0.0037
0.47	105.51	0.0037
0.47	105.31	0.0037
0.47	101.15	0.0036
0.46	100.86	0.0036
0.46	95.85	0.0035
0.45	95.23	0.0035
0.44	93.05	0.0035
0.43	91.32	0.0035
0.43	91.10	0.0034
0.43	90.65	0.0034
0.41	87.93	0.0034
0.39	85.91	0.0033
0.38	85.60	0.0033
0.38	85.57	0.0033
0.37	83.70	0.0032
0.37	82.09	0.0032
0.36	79.56	0.0032
0.36	77.71	0.0032
0.35	76.80	0.0031
0.35	72.20	0.0031
0.34	71.37	0.0031
0.33	70.39	0.0030
0.33	67.63	0.0030
0.32	63.13	0.0030
0.32	61.40	0.0030
0.32	61.13	0.0030
0.31	58.64	0.0029
0.31	54.40	0.0028
0.31	53.79	0.0028
0.29	48.80	0.0028
0.28	46.95	0.0028
0.28	46.87	0.0028

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0.27	38.63	0.0028
0.27	37.98	0.0028
0.27	37.46	0.0028
0.27	36.88	0.0027
0.27	36.09	0.0027
0.26	36.09	0.0027
0.25	35.61	0.0027
0.24	35.25	0.0027
0.24	33.01	0.0026
0.24	31.71	0.0026
0.23	<b>31.53</b>	0.0026
0.23	30.83	0.0025
0.22	30.55	0.0025
0.22	29.87	0.0025
0.21	29.56	0.0024
0.21	27.83	0.0024
0.19	27.73	0.0024
0.19	<b>27.25</b>	0.0024
0.18	26.91	0.0024
0.18	26.67	0.0023
0.15	25.20	0.0021
0.15	24.84	0.0021
0.14	24.14	0.0021
0.14	24.13	0.0021
0.14	23.07	0.0020
0.14	22.67	0.0020
0.14	21.70	0.0019
0.13	21.64	0.0019
0.13	20.80	0.0018
0.13	20.63	0.0018
0.12	20.58	0.0018
0.12	<b>20.15</b>	0.0018
0.12	18.88	0.0018
0.11	<b>18.28 TMAU1 Volunteer</b>	0.0018
0.11	18.27	0.0018
0.10	18.25	0.0018
0.09	17.25	0.0017
0.09	16.99	0.0017
0.09	16.97	0.0016
0.09	<b>16.75</b>	0.0016
0.09	16.28	0.0016
0.09	16.04	0.0016
0.08	15.12	0.0015
0.07	14.60	0.0015
0.07	14.13	0.0015
0.07	13.61	0.0014
0.07	13.26	0.0014
0.06	13.03	0.0014
0.06	<b>10.84</b>	0.0014

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0.06	8.85	0.0013
0.06	8.55	0.0013
0.06	<b>8.24</b>	0.0012
0.06	<b>8.23 Negative for TMAU Volunteer</b>	0.0012
0.05	8.15	0.0012
0.05	7.90	0.0011
0.04	5.56	0.0011
<b>0.042 Negative for TMAU Volunteer</b>	4.70	0.0010
0.04	2.83	0.0010
0.03	2.29	0.0010
0.03	1.44	0.0010
0.03	0.82	0.0006

How results are interpreted:

- TMAU1 can only be truly confirmed by FMO3 enzyme analysis (difficult because a liver biopsy would be needed) or DNA analysis.
- TMAU2 must be a diagnosis by exclusion.
- TMA-oxide can be used as a guide, but is not diagnostic for TMAU2.
- Therefore, if TMA is increased and TMA-oxide is normal and (as in many cases) FMO3 is not proven to be affected the diagnosis must be TMAU2 by exclusion.
- If TMA is normal and TMA-N-oxide is significantly high, suggest a re-test following a choline load.

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