

## Vitamin A and E testing to ARUP Laboratories

To: Clients of UR Medicine Labs

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We have experienced some technical challenges and difficulty in getting necessary parts for the instrument for the Vitamin A and Vitamin E assays by High Performance Liquid Chromatography. As of March 15, 2017 in-house testing of Vitamin A and Vitamin E will be temporarily sent out to our reference laboratory, ARUP Laboratories, until further notice. The expected turnaround time will be 1-4 days from receipt at ARUP Labs. The methodology remains the same (HPLC); the reference intervals for the ARUP results are slightly different. The changes are highlighted below.

### SMH Current Reference Interval

Vitamin A is 20.0 – 50.0 µg/dL      Vitamin E is 5.0 – 9.0 mg/L

### ARUP Reference Interval

Vitamin A (Retinol)	Age	Reference Interval
	0-1 month	0.18-0.50 mg/L
	2 months-12 years	0.20-0.50 mg/L
	13-17 years	0.26-0.70 mg/L
	18 years and older	0.30-1.20 mg/L
Vitamin A (Retinyl Palmitate)	0-150 years: 0-0.10 mg/L	

Vitamin E (Alpha-Tocopherol)	Age	Reference Interval
	0-1 month	1.0-3.5 mg/L
	2-5 months	2.0-6.0 mg/L
	6 months-1 year	3.5-8.0 mg/L
	2-12 years	5.5-9.0 mg/L
	13 years and older	5.5-18.0 mg/L
Vitamin E (Gamma-Tocopherol)	0-6.0 mg/L	

If you have any questions about the assay or need assistance with this assay, please contact Julie Marini [Julie\\_Marini@urmc.rochester.edu](mailto:Julie_Marini@urmc.rochester.edu) (585) 275-5903 or Dr. Y. Victoria Zhang via the methods listed above.