

# **MEMO**

TO: CCLS Clients

FROM: CCLS – Specimen Referral Center

DATE: April 23, 2021

**SUBJECT:** Supersaturation Profile, 24 Hour, Urine

Effective April 29th, 2021, Mayo will be making changes to the following test:

# Supersaturation Profile, 24 Hour, Urine, MAYO CODE SAT24 (LAB1384)

The reference values will be updated as shown below:

### **Current Reference Value**

SUPERSATURATION REFERENCE MEANS

(Delta G: DG)

Calcium oxalate: 1.77 DG Brushite: 0.21 DG Hydroxyapatite: 3.96 DG Uric acid: 1.04 DG Sodium urate: 1.76 DG

INDIVIDUAL URINE ANALYTES

OSMOLALITY

0-11 months: 50-750 mOsm/kg > or =12 months: 150-1,150 mOsm/kg

pH 4.5-8.0

ALL REFERENCE RANGES BELOW ARE BASED ON 24-HOUR COLLECTIONS.

SODIUM

41-227 mmol/24 hours

Reference values have not been established for patients <16 years of age.

POTASSIUM

17-77 mmol/24 hours

Reference values have not been established for patients <16 years of age.

CALCIUM

Males: <250 mg/24 hours Females: <200 mg/24 hours

## **New Reference Value**

SUPERSATURATION REFERENCE MEANS

(Delta G: DG)

Calcium oxalate: 1.77 DG Brushite: 0.21 DG Hydroxyapatite: 3.96 DG Uric acid: 1.04 DG Sodium urate: 1.76 DG

INDIVIDUAL URINE ANALYTES

OSMOLALITY

0-11 months: 50-750 mOsm/kg > or =12 months: 150-1,150 mOsm/kg

pH 4.5-8.0

ALL REFERENCE RANGES BELOW ARE BASED ON 24-HOUR COLLECTIONS.

SODIUM

> or =18 years: 22-328 mmol/24h

Reference values have not been established for patients who are less than 18 years of age.

POTASSIUM

> or =18 years: 16-105 mmol/24h

Reference values have not been established for patients who are less than 18 years of age.

CALCIUM

Males: <250 mg/24 hours Females: <200 mg/24 hours



## **CentraCare Laboratory Services**

Reference values have not been established for patients <18 years and >83 years of age

#### MAGNESIUM

51-269 mg/24 hours

Reference values have not been established for patients <18 years and >83 years of age

#### CHLORIDE

40-224 mmol/24 hours

Reference values have not been established for patients <16 years of age.

### **PHOSPHORUS**

<1,100 mg/24 hours

#### SULFATE

7-47 mmol/24 hours

## CITRATE EXCRETION

0-19 years: not established 20 years: 150-1,191 mg/24 hours 21 years: 157-1,191 mg/24 hours 22 years: 164-1,191 mg/24 hours 23 years: 171-1,191 mg/24 hours

24 years: 178-1,191 mg/24 hours 25 years: 186-1,191 mg/24 hours

26 years: 193-1,191 mg/24 hours 27 years: 200-1,191 mg/24 hours

28 years: 207-1,191 mg/24 hours

29 years: 214-1,191 mg/24 hours 30 years: 221-1,191 mg/24 hours

31 years: 228-1,191 mg/24 hours

32 years: 235-1,191 mg/24 hours 33 years: 242-1,191 mg/24 hours

34 years: 250-1,191 mg/24 hours

35 years: 257-1,191 mg/24 hours 36 years: 264-1,191 mg/24 hours

37 years: 271-1,191 mg/24 hours

38 years: 278-1,191 mg/24 hours

39 years: 285-1,191 mg/24 hours 40 years: 292-1,191 mg/24 hours

41 years: 299-1,191 mg/24 hours

42 years: 306-1,191 mg/24 hours 43 years: 314-1,191 mg/24 hours

43 years: 314-1,191 mg/24 hours 44 years: 321-1,191 mg/24 hours

45 years: 328-1,191 mg/24 hours 46 years: 335-1,191 mg/24 hours

47 years: 342-1,191 mg/24 hours

48 years: 349-1,191 mg/24 hours

49 years: 356-1,191 mg/24 hours 50 years: 363-1,191 mg/24 hours

51 years: 370-1,191 mg/24 hours 52 years: 378-1,191 mg/24 hours

53 years: 385-1,191 mg/24 hours

54 years: 392-1,191 mg/24 hours

55 years: 399-1,191 mg/24 hours 56 years: 406-1,191 mg/24 hours

57 years: 413-1,191 mg/24 hours

58 years: 420-1,191 mg/24 hours

Reference values have not been established for patients who are less than 18 years of age.

### MAGNESIUM

> or =18 years: 51-269 mg/24 hours

Reference values have not been established for patients who are less than 18 years of age.

#### CHLORIDE

> or =18 years: 34-286 mmol/24h

Reference values have not been established for patients who are less than 18 years of age.

### **PHOSPHORUS**

> or =18 years: 226-1,797 mg/24hours Reference values have not been established for patients who are less than 18 years of age.

#### SULFATE

7-47 mmol/24 hours

#### CITRATE EXCRETION

0-19 years: not established

20 years: 150-1,191 mg/24 hours

21 years: 157-1,191 mg/24 hours

22 years: 164-1,191 mg/24 hours 23 years: 171-1,191 mg/24 hours

24 years: 178-1,191 mg/24 hours

25 years: 186-1,191 mg/24 hours

26 years: 193-1,191 mg/24 hours 27 years: 200-1,191 mg/24 hours

28 years: 207-1,191 mg/24 hours

29 years: 214-1,191 mg/24 hours 30 years: 221-1,191 mg/24 hours

31 years: 228-1,191 mg/24 hours

32 years: 235-1,191 mg/24 hours 33 years: 242-1,191 mg/24 hours

34 years: 250-1,191 mg/24 hours

35 years: 257-1,191 mg/24 hours 36 years: 264-1,191 mg/24 hours

37 years: 271-1,191 mg/24 hours

38 years: 278-1,191 mg/24 hours

39 years: 285-1,191 mg/24 hours 40 years: 292-1,191 mg/24 hours

41 years: 299-1,191 mg/24 hours

42 years: 306-1,191 mg/24 hours

43 years: 314-1,191 mg/24 hours 44 years: 321-1,191 mg/24 hours

45 years: 328-1,191 mg/24 hours

46 years: 335-1,191 mg/24 hours 47 years: 342-1,191 mg/24 hours

48 years: 349-1,191 mg/24 hours

49 years: 356-1,191 mg/24 hours 50 years: 363-1,191 mg/24 hours

51 years: 370-1,191 mg/24 hours

52 years: 378-1,191 mg/24 hours 53 years: 385-1,191 mg/24 hours

54 years: 392-1,191 mg/24 hours 55 years: 399-1,191 mg/24 hours

56 years: 406-1,191 mg/24 hours



59 years: 427-1,191 mg/24 hours 60 years: 434-1,191 mg/24 hours

>60 years: not established

**OXALATE** 

0.11-0.46 mmol/24 hours

URIC ACID

Diet-dependent: <750 mg/24 hours

CREATININE

Normal values mg per 24 hours: Males: 955-2936 mg/24 hours Females: 601-1689 mg/24 hours

Reference ranges for male and female patients <18 and >83 years of age have not been

established.

The expected urine creatinine excretion per 24

Males: 13-29 mg/kg of body weight/24 hours Females: 9-26 mg/kg of body weight/24 hours

Reference ranges for male and female patients <18 and >83 years of age have not been established.

Note: To convert to mg/kg of body weight/24 hours, divide the mg/24 hours result by body weight in kg.

AMMONIUM

15-56 mmol/24 hour

Reference values have not been established for patients <18 years and >77 years of age.

UREA NITROGEN 5.0-16.0 g/24 hours

PROTEIN CATABOLIC RATE 56-125 g/24 hours

57 years: 413-1,191 mg/24 hours 58 years: 420-1,191 mg/24 hours 59 years: 427-1,191 mg/24 hours 60 years: 434-1,191 mg/24 hours >60 years: not established

OXALATE

0.11-0.46 mmol/24 hours

9.7-40.5 mg/24 h

URIC ACID

Male: > or =18 years: 200-1,000 mg/24h Female: > or =18 years: 250-750 mg/24h Reference values have not been established for patients who are less than 18 years of age.

CREATININE

Male: > or =18 years: 930-2,955 mg/24h Female: > or =18 years: 603-1,783 mg/24h Reference values have not been established for patients who are less than 18 years of age.

AMMONIUM

15-56 mmol/24 hour

Reference values have not been established for patients <18 years and >77 years of age.

UREA NITROGEN

> or =18 years: 7-42 g/24h

Reference values have not been established for patients who are less than 18 years of age.

PROTEIN CATABOLIC RATE 56-125 g/24 hours

Please feel free to contact the Specimen Referrals Center with any questions at 320-251-2700 Ext. 57320