DeKalb Clinic
A Community of Specialists

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Date 10/13/09

Business/Company M. Lyon

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Special Instructions:

Sleep Study on
Arthur Lyon

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KishHealth System
KISHWAUKEE
Community Hospital
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Sleep Disorders Center

GENERAL PATIENT INFORMATION

Patient Name:	Arthur Lyon
Age at time of study:	9
Patient Address:	619 Indiana Ave. St. Charles, Illinois 60174
Patient Home Phone Number:	(630) 247-7533
Referring Physician:	David Phillips, M.D.
Referring Physician Address:	217 Franklin St DeKa;b, Illinois 60115
Referring Physician Phone Number:	(815) 758-8671
Referring Physician Fax Number:	(815) 758-7460
Primary Physician:	David Phillips, M.D.
Primary Physician Address:	217 Franklin St DeKa;b, Illinois 60115
Sleep Consultant:	
Consultant Address:	

DSP 10/13/09

Reason for Evaluation: Apnea-Suspected

Type of Study Performed: Diagnostic - First Study

Performing Technician: Carlino, Terrance

Scoring Technician: Mooney, Howard

Date of Study: 09/12/2009

Interpreting Physician: Ghabra, Mohammed B.

Interpretation Date: 10/08/2009

CPT Code: 95810 - Diagnostic Study

Kishwaukee Community Hospital - Sleep Disorders Center
Tel: 888.SLEEP.77 (888.753.3777) Fax: 630.655.8166

Polysomnogram Summary Report – PSG

Name: LYON, ARTHUR			Referring Physician: HERBERT MENENDEZ
Study Date: 9/12/2009			Hosp. Number: V19781764
DOB: 12/5/1999	Age: 9	Sex: M	Study Number: A5BS02913 / 156
Height: 56 inches	Weight: 80 lbs		BMI: 17.93

Clinical History

The patient was referred for evaluation of sleep apnea with the following complaints noted:

Unrefreshing Sleep; Bed wetting; Legs Cramps; ifficulty stayig asleep;

Past Medical History was of note for:

Asthma; Psychiatric disorder;

Current Medications:

PROZAC

Recording Montage

An attended, facility-based polysomnogram (16 channel) was performed on this patient. Data recorded includes 6 channels of EEG, 2 channels of EOG, 3 channels of EMG (1 submental EMG, 1 anterior left and 1 anterior right tibialis EMG), nasal/oral airflow, 2-lead ECG, 1 channel of thoracic and 1 channel of abdominal respiratory motion, snoring sounds, and finger pulse oximetry. The EEG, EOG, and EMG electrodes were applied according to the international 10-20 Electrode Placement System. The tracing was scored using 30 second epochs. The study was scored according to the AASM Manual for the Scoring of Sleep and Associated Events: Rules, Terminology and Technical Specifications. Hypopneas were scored per AASM definition VII.4.A (4% desaturation).

Polysomnographic Findings

Sleep Continuity and Sleep Architecture

The patient's Sleep Efficiency was lower than expected in a sleep laboratory environment. The Total Sleep Time was acceptable for providing a valid evaluation. The patient experienced a normal amount of arousals and stage changes. The Sleep Latency was delayed. The REM latency was delayed. A normal REM latency is approximately ninety minutes. The amount of slow wave sleep was increased. REM sleep was decreased.

Respiratory / Oxygen Saturation Measures 93% – AHI : 4.4

The patient was noted to have central sleep apnea with apnea hypopnea index of 4.4. The lowest oxygen saturation was 93%.

EKG

The patient's EKG tracing was without significant abnormality throughout this study.

Periodic Limb Movements

The patient did not demonstrate a significant number of cyclically repetitive limb movements to be considered abnormal.

EEG

The electroencephalogram tracing was without significant abnormalities.

Other Observations

Diagnosis

ICD-9	Description
327.21	*Primary Central Sleep Apnea

Polysomnogram Summary Report – PSG

Impressions

This study revealed occasional Central sleep apnea, without O2 desaturation, which can be common in pediatric population, the AHI was 4.4, also there was one obstructive sleep apnea.

Recommendations

» Suggest obtaining an ENT evolution of upper airways.
» Management of his medical conditions.
» If he continues to have sleep related disorder, suggest obtaining a formal pediatric sleep consultation

Thank you for allowing us to participate in the care of this patient. If you have questions, please do not hesitate to contact us.

***Electronically created and approved by:**
Mohammed B. Ghabra, M.D. **10/8/2009**
Diplomate, American Board of Sleep Medicine

Unless specifically requested, this patient has not been seen by a sleep consultant. Consultative services can be arranged, or if you have questions regarding this report, please contact the sleep center scheduling number at (888)SLEEP-77.

Polysomnogram Summary Report – PSG

SLEEP ARCHITECTURE

Lights Out:	10:10:25 PM	Total Wake Time:	77.5 min
Lights On:	5:49:25 AM	Wake After Sleep Onset	1.5 min
Time in Bed:	459.0 min	Stage N1 (% of TST / min):	0.0% / 0.0 min
Total Sleep Time:	381.5 min	Stage N2 (% of TST / min):	26.9% / 102.5 min
Sleep Efficiency:	83.1%	Stage N3 (% of TST / min):	62.9 / 240.0 min
Sleep Latency:	76.0 min	Stage R (% of TST / min):	10.2% / 39.0 min
Stage R Latency:	188.0 min	Arousals (# / index)	26 / 4.1

RESPIRATORY EVENT SUMMARY

	Non-Supine		Supine		NREM		REM		Total	
Event Type	#	Index	#	Index	#	Index	#	Index	#	Index
RERA	0.00	0.00	0	0.0	0	0.0	0	0.0	0	0.0
Obstructive	1.00	0.16	0	0.0	1	0.2	0	0.0	1	0.2
Central	27.00	4.26	0	0.0	24	4.2	3	4.6	27	4.2
Mixed	0.00	0.00	0	0.0	0	0.0	0	0.0	0	0.0
Apnea (Total)	28.00	4.41	0	0.0	25	4.4	3	4.6	28	4.4
Hypopnea	0.00	0.00	0	0.0	0	0.0	0	0.0	0	0.0
Apnea+Hypopnea	28.00	4.41	0	0.0	25	4.4	3	4.6	28	4.4

- Cheyne Stokes Breathing: None Present
- Hypoventilation: None Present

OXIMETRY SUMMARY

	Fall (min)	<90%	<85%	<80%	<75%	<70%	<60%	<50%	Avg (%)	Min (%)
REM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99	93
NREM	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99	93
Total (TIB)	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98	92

- Supplemental O2 applied (lpm): N/A

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	Fall (min)	≥30	≥40	≥47	≥50	≥55	≥65	≥75	Avg
REM	0.0	39.0	39.0	3.3	0.0	0.0	0.0	0.0	45
NREM	0.0	341.6	332.3	57.1	8.7	0.0	0.0	0.0	45
Total (TIB)	0.0	458.1	447.5	62.1	9.2	0.0	0.0	0.0	45

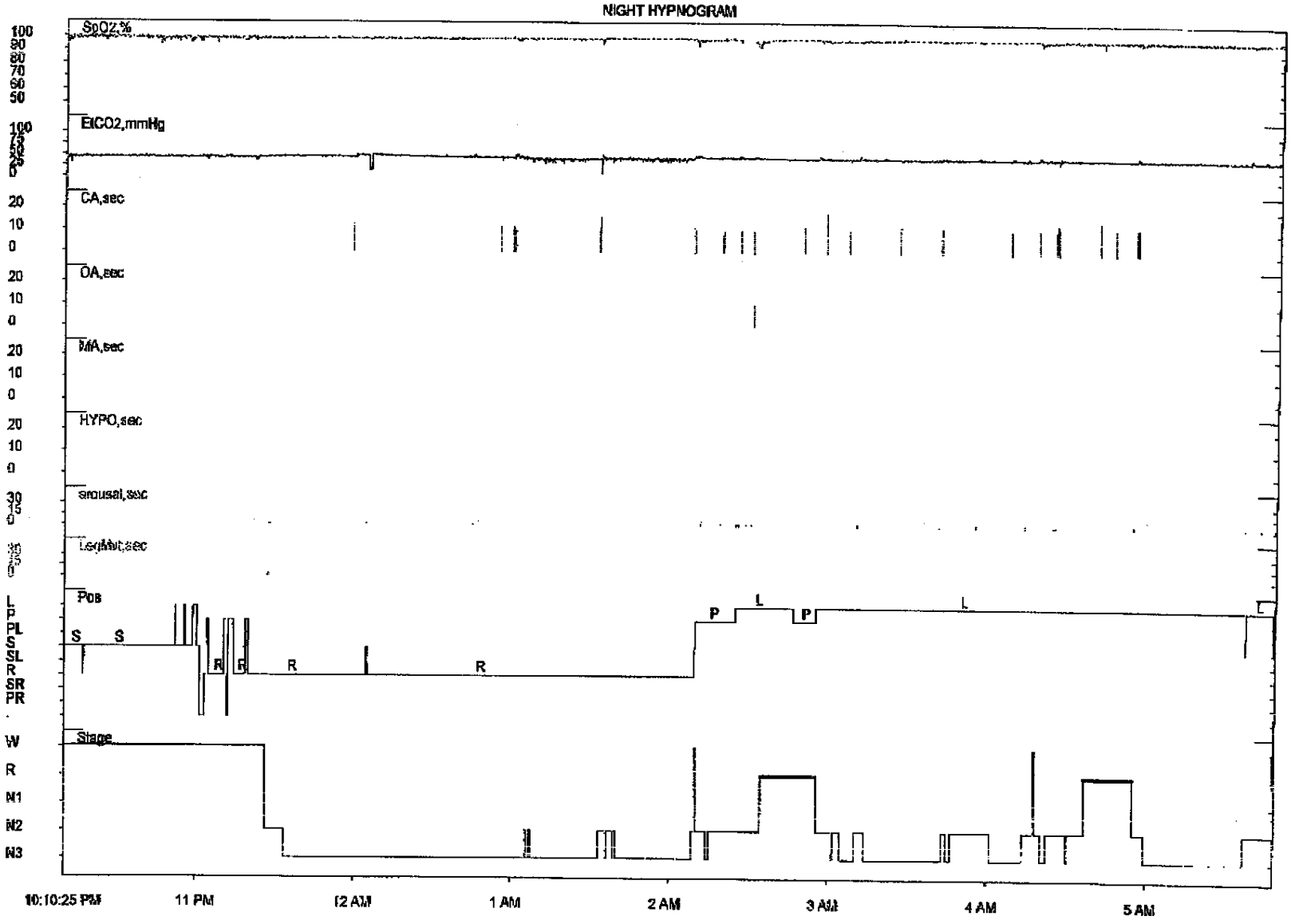
CARDIAC SUMMARY

Event Type	Occurrence	
Bradycardia	NO	Lowest HR Scored: N/A
Sinus Tachycardia During Sleep	NO	Highest HR Scored: N/A
Narrow Complex Tachycardia	NO	Highest HR Scored: N/A
Wide Complex Tachycardia	NO	Highest HR Scored: N/A
Asystole	NO	Longest Pause: N/A
Atrial Fibrillation	NO	Duration Longest Event: N/A
Other Arrhythmias	NO	N/A

MOVEMENT EVENTS

Periodic limb movements (PLMS): 5	Periodic limb movements with arousals: 1
Index of periodic limb movements (# of PLMS/h): 0.8	Index periodic limb movements with arousals: 0.2

Polysomnogram Summary Report – PSG



Name: LYON, ARTHUR	DOS: 9/12/2009	DOB: 12/5/1999	Page 4 of 4

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