PEDIATRIC COMPLEX CARE PLATFORM | منصة رعاية الأطفال ذوي الحالات الطبية المعقدة

CLINICAL CHECKLIST · PEDIATRIC COMPLEX CARE PLATFORM

Overnight Oximetry Interpretation Checklist

A structured approach to reviewing and interpreting overnight pulse oximetry studies (Masimo)

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DOCUMENT TYPE	PUBLISHED	NEXT REVIEW DUE
Clinical Checklist	October 2026	October 2028
OWNER	**VERSION**	**APPLIES TO**
Pediatric Complex Care Platform	1	Pediatric patients

AUTHORS
Dr. Ahmad Jaafar | Senior Specialist in Pediatrics, Pediatric Complex Care and Pediatric Palliative Care

Intended for healthcare professionals as a clinical reference. Apply with clinical judgment and in line with local protocols.

Patient: _____ **Study date:** _____ **Reviewed by:** _____

1 Study Demographics & Indication

- ☐ Patient's **name** reviewed.
- ☐ **Date** of study reviewed.
- ☐ **Indication** of study reviewed.

- ☐ Patient is **NOT on O_2.**
- ☐ Patient is **ON O_2**; how much? _____

WHAT IS THE INDICATION OF THE STUDY?

- ☐ Assessment for long-term O_2 therapy qualification.
- ☐ Investigating suspected sleep-disordered breathing.
- ☐ Assessment of safety of discharge or discontinuation of O_2.
- ☐ Assessment of response to surgical intervention for OSA.

2 Study Metrics & Signal Quality

- ☐ **Recording time** (particularly total valid sampling) reviewed.
- ☐ **Program parameters** (desaturation definition, sampling time, averaging time) reviewed.
- ☐ **Artifacts** reviewed.
- ☐ Overnight oximetry **log** reviewed.

3 SpO_2 & HR Average & Baseline

- [ ] **Average** SpO_2 and HR reviewed.
- [ ] **Baseline** SpO_2 and HR reviewed.

4 Characteristics of Desaturations & HR Changes

SPO_2 GRAPH

- [ ] Correlation of desaturations with **artifacts** reviewed.
- [ ] **Severity** of desaturations reviewed (deepest desaturation, longest desaturation).
- [ ] **Frequency** of desaturations reviewed (number of desaturations).
- [ ] **Pattern** of desaturations reviewed:
  - [ ] Continuous desaturation (baseline desaturation).
  - [ ] Intermittent desaturation (clustered, scattered or both).

HR GRAPH

- [ ] **HR correlation** with desaturations reviewed.

DESATURATION INDEX (NUMBER OF DESATURATIONS / HOUR)

- [ ] **Desaturation index** reviewed (>10 desaturations/hr → abnormal).

TIME BELOW A SPECIFIC SATURATION

- [ ] **Duration and percentage of time** below a specific saturation reviewed.

5 Conclusion

- [ ] **NORMAL study**
- [ ] **INCONCLUSIVE study**
- [ ] **Evidence of BASELINE desaturation**
- [ ] **Evidence of OSA**
- [ ] **Evidence of CSA**
- [ ] **Evidence of MIXED sleep apnea**

Comments / plan: _____

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