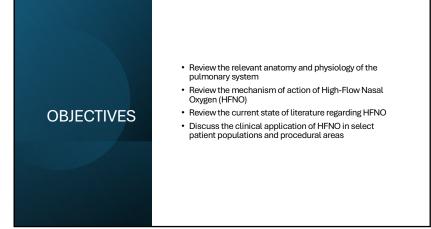
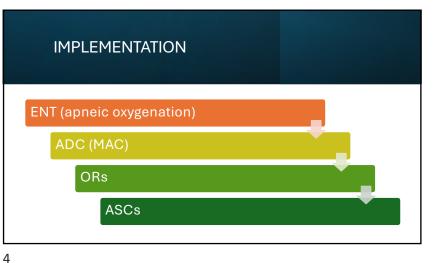


## Douglas Massey II, DNP, CRNA

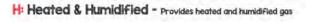
## FINANCIAL DISCLOSURES DISCLOSURES DISCLOSURES

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I: Inspiratory Demands - Can better meet elevated peak inspiratory flow demands

F: Functional Residual Capacity - Increases FRC likely via delivery of PEEP

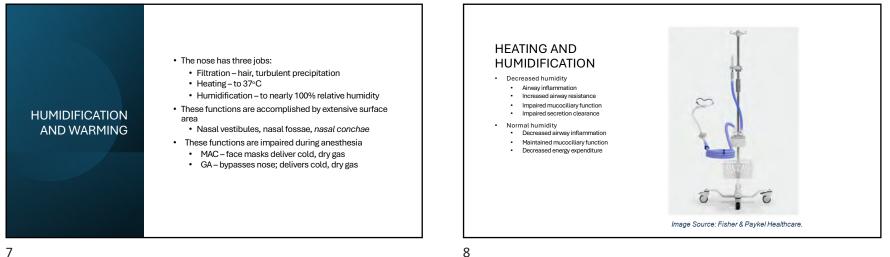
L: Lighter - More easily tolerable than CPAP or BiPAP

O: Oxygen Dilution - Can minimize oxygen dilution by meeting flow demands

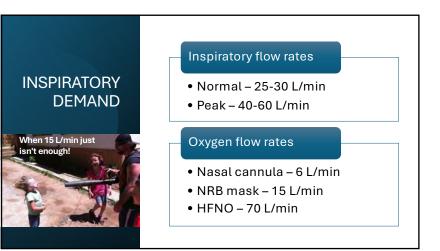
W: Washout of dead space - Provides high flow rates leading to wash out of pharyngeal dead space (CO2 removal)

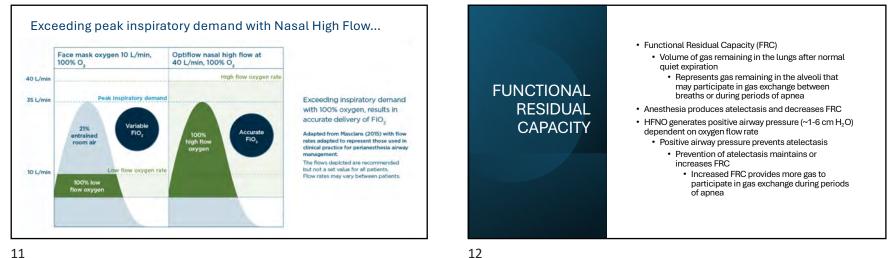
https://rebelem.com/high-flow-nasal-cannula-hfnc-part-1-how-it-works/

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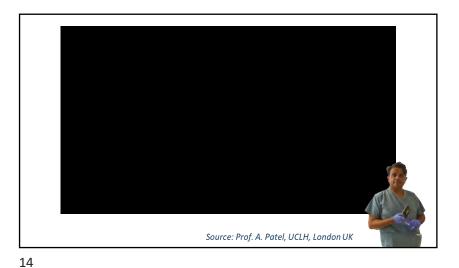




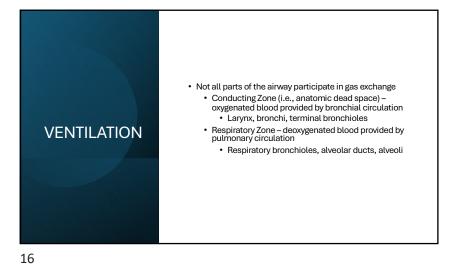






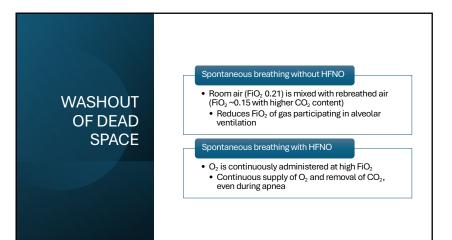














H: Heated & Humidified - Provides heated and humidified gas

I: Inspiratory Demands - Can better meet elevated peak inspiratory flow demands

F: Functional Residual Capacity - Increases FRC likely via delivery of PEEP

L: Lighter - More easily tolerable than CPAP or BiPAP

O: Oxygen Dilution ~ Can minimize oxygen dilution by meeting flow demands

W: Washout of dead space - Provides high flow rates leading to wash out of pharyngeal dead space (CO2 removal)

https://rebelem.com/high-flow-nasal-cannula-hfnc-part-1-how-it-works/



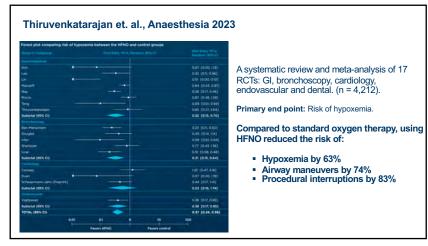
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Original Article	
Transnasal Humidified Rapid-Insufflat (THRIVE): a physiological method of i patients with difficult airways	
A. Patel <sup>4,2</sup> and S. A. R. Nouraet <sup>8</sup>	
2 Genunhunt Anaeoflexin, The Royal National Threat None and J 2 Generalizer Anaeoflexin, 3 Specialist Registrate in Academic Deb Feasibation Trans, London, UK	
Summary Testingnetistis epide care modules to attract the analysis of the comparison of the care modules to attract the start of the comparison of the start of the start of the start of the comparison of the start of the start of the start of the module attract, using the provide provide start of the start	Include, justy weight of sectors. Before, 2013 and the sequence of the sector of the sector of the sec- bership characterises. A description of the sector of the sec- bership characterises. A description of the sector of the tensors and sector of the sector of the sector of the tensors and sector of the sector of the sector of the tensors of the sector of the sector of the sector of the tensors of the sector of the sector of the sector of the tensors of the sector of the sector of the sector of the tensors of the sector of the s

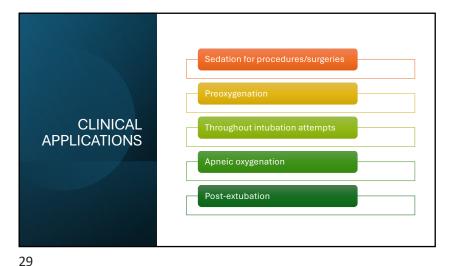


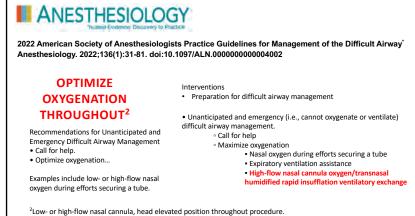
ORIGINAL ARTICLE	
The efficacy of high flow nasal of maintaining maternal oxygenation sequence induction in pregnance A prospective randomised clinical to	on during rapid y
Shuanggong Zhou*, Yao Zhou*, Xuhong Gao*, Xu h Zhendong Xu and Zhiqiang Llu	
per regression i nije in symme solucion (2016 bis con the son the control of the solution (2016 bis control to the solu	CLUSIONS Compared with SPM, HEND perioded 8, et PIOD, and EXD, semiodarily alter instantion in par- tic HEND is take as a method changemation during RNI relatents and easy method shangemation during RNI relatents and easy and period immethenis for camenaa

Baview Articla	
Effect of high-flow n	asal oxygen on hypoxaemia during
procedural sedation	a systematic review and meta-analysis
L. Ludbrook     Comused, 3 Negrows, 3 Series Victory     Sandy, Woodshies, Advances, Victory     Comunity, Victory     Comunity, Woodshies, 7 Octowers	Mar, <sup>4</sup> (c) D. T. Wong, <sup>4</sup> J. Currie, <sup>7</sup> R. Van Wijk <sup>2,8</sup> (c) and here a start of the start
Linux	Summary We conducted a systematic review to evaluate the effect of high-flow nasal oxygen and conventional oxygen threavy during procedural sectation amongst adults and children. We searched MEDLINE, EMBASE and CINARL for randomised controlled trials that reported the effects of high-flow nasal oxygen during procedural sedaton. The primer volceme measure was hyposenem and the sectorality-cloveness were minimum oxygen statuation; hypertarbitic requirement for alway maneuvers; and procedure interruptions. The quality of evaluation was assessed using the revised Contraction of the other discussion of the primer discussion, assessment, development and invaluation (GRADE). Ninelean randomised controlled trials (412) patients) including three in children were included. Administration of high-flow nasal oxygen reduced typosaemia, risk ratio (SMRCI) 0.37 (0.24-0.54), $p < 0.001$ ; minor alway maneavers requirements, mix ratio (SMRCI) 0.26 (0.11-0.59), $p > 0.002$ ; proceedural interruptics, risk ratio (SMRCI) 0.71 (0.06-0.53), $p = 0.002$ ; and increased minimum oxygen staturation; mediced by proceedure index of hyposaemia, the control group, High-flow nasal oxygen raduced the incidence of hyposaemia registration, $p = 0.002$ ; and increased minimum oxygen cottagenet doxygen risk proceedure index dox (320-11-400); p = 0.07, T = 05. High-flow nasal oxygen raduced the incidence of hyposaemia impacties of the procedure involved, digree of fractional integrated oxygen, risk ratio (SMRCI) 1.24 (0.01-250); $p = 0.002$ ; and increased minimum oxygen cottagenet doxygen, risk ratio (SMRCI) 1.24 (0.01-250); $p = 0.002$ ; and increased minimum oxygen raduced the incidence of hyposaemia impacties of the procedure involved, digree of fractional integrate oxygen, risk ratio (SMRCI) 1.24 (0.02-1); and the regularement indicated was excentained as modered to procedure index procedure interruptions. The relation of the regularement of sectors index of hyposaemia hyperater of the relation of thyperater oxygen, risk rati

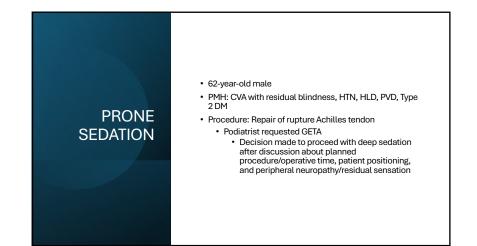


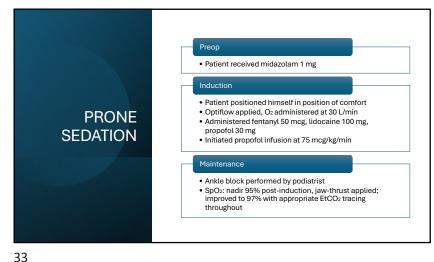


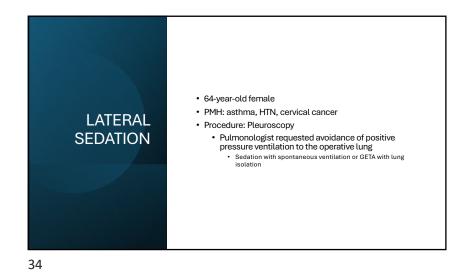




<text><text>







 Preop

 • Patient transported directly to room; no anxiolytics administered

 • Outcom

 • Administered fentanyl 50 mcg upon arrival to room

 • Patient positioned herself in position of comfort

 • Optiflow applied, Or administered at 50 L/min

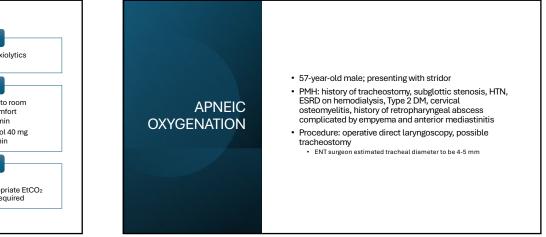
 • Administered lidocaine 100 mg and propofol 40 mg

 • Initiated propofol infusion at 100 mcg/kg/min

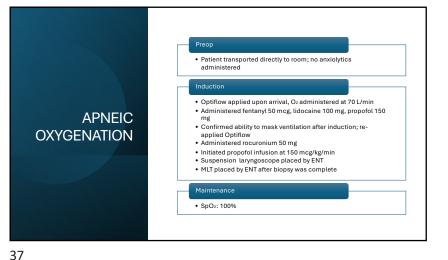
 • Maintenance

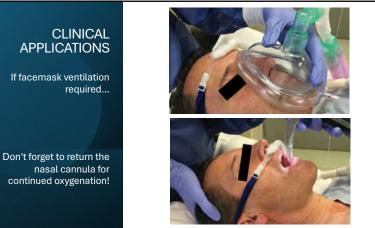
 • Lidocaine 1% injected at incision site

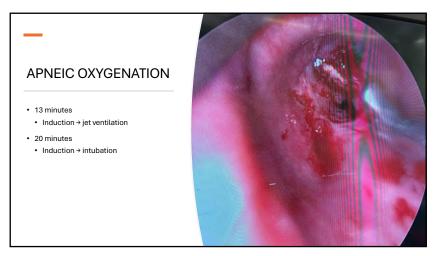
 • SpOr: nadir 98% post-induction with appropriate EtCO2 tracing throughout; no airway maneuvers required



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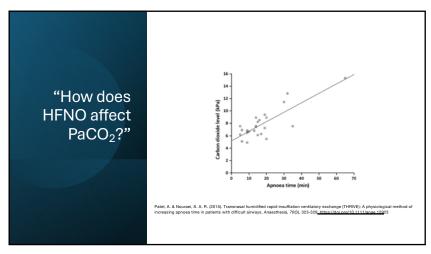


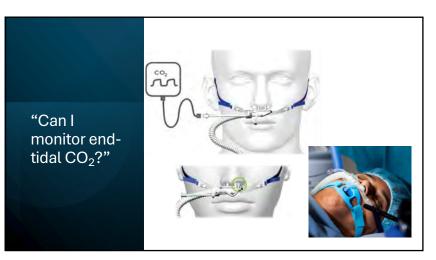




"How much O<sub>2</sub> does the system require?"
E-cylinder (680 L) @ 1900 psi
Nasal cannula @ 4 L/min – 133 minutes
NRB mask @ 15 L/min – 36 minutes
HFNO @ 30 L/min – 17.7 minutes
HFNO @ 50 L/min – 10.6 minutes
HFNO @ 70 L/min – 7.5 minutes

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"Can I monitor end-tidal CO<sub>2</sub>?"

