

<p>Patient ID # : _____</p> <p>Center: WHMC TH WH MMC BMH USF MCMC BAMC</p> <p>Randomization: HFOV Conventional</p> <p>date/time ____ / ____ / ____ @ ____ hrs (24 hour clock)</p> <p style="text-align: center;">mm dd yy</p>

Inclusion/exclusion criteria confirmed by: _____

Inclusion Criteria:

- 1. Age \geq 16 years **and**
- 2. Weight \geq 35 kg
- 3. P/F ratio $<$ 200
on two consecutive ABG's
> 30 min. apart but <4 hrs apart **with**
- 4. PEEP \geq 10 cm H₂O **with**
- 5. bilateral infiltrates **and**
- 6. PA wedge $<$ 18 mmHg **or**
- 7. no evidence of LA hypertension **and**
- 8. ability to gain Informed Consent

Exclusion Criteria:

- FiO₂ $>$.80 for $>$ 24 hours **or**
- persistent airleak **or**
- nonpulmonary terminal prognosis **or**
- intractable shock **or**
- severe COPD or asthma **or**
- enrollment in another investigation
for ARDS or septic shock $<$ 30 days

Patient Data

Gender: M F DOB: ____ / ____ / ____ Age: ____
dd mm yy

Height: ____ cm Wt: ____ kg (ICU Admit)

Intubation

Intubation type: orotracheal ____ nasotracheal ____ tracheostomy ____
 ET diameter: ____ mm ET length: ____ cm

Number of days of mechanical ventilation prior to randomization ____.

Were there any pneumothoraces present at time of randomization? Yes No

Air leak grade: 0 1 2 3 4

Number of days with air leak prior to randomization ____.

Note: This form, or the computer randomization screen should be faxed to Tom Bachman, 909 337-0830 within 48 hours of entering patient in the study.

PRE-ENTRY CLINICAL DATA

Center _____ **Patient #** _____

APACHE 2 Score _____ (worst values in first 24 hours of this ICU admission)

Diagnosis: (please check all relevant risk groups)

- sepsis
(circle source: pneumonia • intestinal/abdominal • urinary tract • catheter • other • unknown)
- inhalation injury
- embolism
- pulmonary infection
- transfusion related
- other (list) _____
- trauma (circle: chest or head)
- aspiration
- drug induced
- pancreatitis
- intravascular coag.

Ventilator Settings/ABG's - Prior to Randomization

PIP _____ PEEP _____ Mean Paw _____ I:E _____
 I-Time _____ Resp Rate _____ Tidal volume _____
 FiO₂ _____ Hgb _____ HCO₃ _____ Base excess _____
 pH _____ PaO₂ _____ PaCO₂ _____ SaO₂ _____

Cardiovascular Data - Prior to Randomization

BP (s/d/m) _____/_____/_____ HR _____ CVP _____
 PAP _____/_____ CO _____ PCWP _____

Note: The Ventilator Settings, ABG and Cardiovascular data Prior to Randomization, should be the data most reflective of the patients status when randomized.

MOAT2 - Case Report Forms

VENTILATOR & CLINICAL DATA - during HFOV

Center _____ Patient # _____

Scheduled date and time of reading (24 hr clock)	_____ __ : __ hrs	_____ __ : __ hrs	_____ __ : __ hrs
Actual date and time (24 hr clock)	_____ __ : __ hrs	_____ __ : __ hrs	_____ __ : __ hrs
Bias flow			
Power setting			
Delta-P			
Mean Paw			
Frequency Hz			
% I-time			
Hgb			
FiO2			
pH			
PaCO2			
PaO2			
HCO3			
SaO2			
SvO2			
heart rate			
systolic BP			
diastolic BP			
mean BP			
CVP			
Cardiac Output			
PCWP			
Air leak score (circle)	0 1 2 3 4	0 1 2 3 4	0 1 2 3 4
ET Tube Change(indicate change)			
APACHE 2 Score (Day 1,2 and 3 of treatment only)			

Note: T= 0 for HFOV is defined as when HFOV is initiated. The first data should be when the patient has stabilized or at 2 hours if still unstable. After that data, the readings are scheduled for every 8 hours for the first 72 hours of HFOV and then once per day while the patient is on mechanical ventilation. After weaning to convention ventilation these data should be reported on the equivalent “-during Conventional Ventilation” form CRF-4. This form permits the recording of the scheduled and actual protocol time.

MOAT2 - Case Report Forms

VENTILATOR & CLINICAL DATA - during CMV

Center _____ Patient # _____

Scheduled date and time of reading (24 hr clock)	____ : ____ hrs	____ : ____ hrs	____ : ____ hrs
Actual date and time (24 hr clock)	____ : ____ hrs	____ : ____ hrs	____ : ____ hrs
PIP			
PEEP			
Mean Paw			
I:E			
Rate			
Tidal Volume (ml)			
Hgb			
FiO2			
pH			
PaCO2			
PaO2			
HCO3			
SaO2			
SvO2			
heart rate			
systolic BP			
diastolic BP			
mean BP			
CVP			
Cardiac Output			
PCWP			
Air Leak Score (circle)	0 1 2 3 4	0 1 2 3 4	0 1 2 3 4
ET Tube Change(indicate change)			
APACHE II Score (Day 1,2 and 3 of treatment only)			

Note: T= 0 for CV is defined as 1 hour after randomization. The first data is scheduled for when the patient has stabilized or at 2 hours if still unstable. After that data the readings are scheduled to occur every 8 hours for the first 72 hours of CV and then once per day while the patient is on mechanical ventilation. This form permits the recording of the scheduled and actual protocol time.

STUDY EXIT REPORT

Center _____ **Patient #** _____

Exit date/time ____ / ____ / ____ @ ____ hrs (24 hour clock)
mm dd yy

Exit Criteria met:

- ___ withdrawal of informed consent
- ___ weaned from MV
- ___ 30 days from entry
- ___ HFOV treatment failure and physician determined potential benefit of CMV
- ___ death (briefly describe cause of death)

Associated Causes of Death: (please select all appropriate causes)

- ___ profound hypoxemia
- ___ multiple organ failure (≥ 3 organs)
- ___ sepsis
- ___ withdrawal of life support
- ___ cardiac arrhythmia
- ___ other: _____ (please specify)

Treatment Failure Criteria Met During Study

___ No

___ Yes ____ / ____ / ____ @ ____ hrs (24 hour clock)
mm dd yy

Criteria Met

- intractable hypotension (average MAP during period)
 - ___ MAP < 50 for 1 hour
 - ___ MAP < 60 for 4 hours
- ___ intractable respiratory failure (pH < 7.15 and HCO₃ >19 meq/l for 6 hours)
- ___ oxygenation failure (OI > 42 after 72 hours of treatment)

OUTCOME REPORT - 1 Month Follow-Up

Center _____ Patient # _____

Indicate source of follow up data

___ Patient died (___ / ___ / ___)
dd mm yy

___ Actual 30 day follow-up

___ Lost to follow-up

i.e. Status at discharge date of discharge (___ / ___ / ___)
dd mm yy

If alive indicate respiratory status

___ No respiratory support required

___ Oxygen required - defined as requiring supplemental O2 administration to maintain an oxygen saturation of at least 90% awake without CPAP.

___ CPAP required - defined as CPAP required to maintain an oxygen saturation of 90% or greater, awake breathing room air.

___ Mechanical ventilation required - defined as being required if necessary to maintain a PaCO2 of ≤ 50 Torr during spontaneous breathing with metabolic acidosis treated ($\text{HCO}_3^- > 19$ meq/L).

Other significant events

___ Weaned MV: (___ / ___ / ___)
mm dd yy

___ Weaned O2: (___ / ___ / ___)
mm dd yy

___ Discharged: (___ / ___ / ___)
mm dd yy

___ Transferred: (___ / ___ / ___)
mm dd yy

___ Extraordinary therapeutic interventions after exit ? (e.g., ECMO, iNO, HFV, other)

OUTCOME REPORT - 6 Month Follow-Up

Center _____

Patient # _____

Indicate source of follow up data

___ Patient died (___ / ___ / ___)
mm dd yy

___ Actual 6 month follow-up

___ Lost to follow-up

___ Status at discharge date of discharge (___ / ___ / ___)
dd mm yy

___ Status at 30 days

If alive indicate respiratory status

___ No respiratory support required

___ Oxygen required - defined as requiring supplemental O2 administration to maintain an oxygen saturation of at least 90% awake without CPAP.

___ CPAP required - defined as CPAP required to maintain an oxygen saturation of 90% or greater, awake breathing room air.

___ Mechanical ventilation required - defined as being required if necessary to maintain a PaCO2 of ≤ 50 Torr during spontaneous breathing with metabolic acidosis treated ($\text{HCO}_3^- > 19$ meq/L).

Other significant events

___ Weaned MV: (___ / ___ / ___)
mm dd yy

___ Weaned O2: (___ / ___ / ___)
mm dd yy

___ Discharged: (___ / ___ / ___)
mm dd yy

___ Transferred: (___ / ___ / ___)
mm dd yy

___ Extraordinary therapeutic interventions after exit (e.g., ECMO, iNO, HFV, other)

Confounding Therapies

Center _____ Patient # _____

1. Entry through day 30 days

Treatment	Received ?	Study Day started**	Length	Responded ?
ECMO	yes no			yes no
iNO	yes no			yes no
Proning	yes no			yes no
Steroids *	yes no			yes no
Surfactant	yes no			yes no
HFV ***	yes no			yes no

* only Steroids for treatment of fibro-proliferative phase of ARDS need be noted. If yes, indicate below the initial dose and duration (e.g., initial 2 mg/kg/day m-prednisolone for 14 days).

** day 1 - 30 even if patient already exited from study

*** HFV used for rescue (indicate HFO or HFJ)

2. Prior to entry:

- patient immune compromised ? Y N
- extended mechanical ventilation (5 days or greater) ? Y N

If yes:

- P/F < 200 with PEEP 10 or greater for ____ . ____ days

- Bilateral infiltrates for ____ . ____ days