Critical Pathway for Donation After Cardiac Death











Collaborative Practice	Phase I Identification & Referral	Phase II Preliminary Evaluation	Phase III Family Discussion & Consent	Phase IV Comprehensive Evaluation & Donor	Phase V Withdrawal of Support /Pronouncement of
				Management	Death/Organ Recovery
The following health care professionals may be involved in the Donation After Cardiac Death (DCD) donation process: Check all that apply: O Physician (MD) Critical Care RN Nurse Supervisor Medical Examiner / Coroner Respiratory Therapy (RT) Laboratory Pharmacy Radiology Anesthesiology OR/Surgery Staff Clergy Social Worker	 Prior to withdrawing life support, contact local OPO for any patient who fulfills the following criteria: O Devastating neurologic injury and/or other organ failure requiring mechanical ventilatory or circulatory support O Family and/or care giving team initiate conversation about withdrawal of support Following referral, additional evaluation is done collaboratively to determine if death is likely to occur within one hour (or within a specified timeframe as determined by caregiving team and OPO) following withdrawal of support Patient conditions might include the following: O Ventilator dependent for respiratory 	 Physician Supportive of withdrawal of care and has communicated grave prognosis to family Review DCD procedure with OPC Will be involved in withdrawal/ pronouncement Will designate a person to be involved with withdrawal and/or pronouncement Family Has received grave prognosis Understands prognosis In conjunction with care giving team, decide to withdraw support Patient Age Height ABO 	 Support services offered to family OPC/Hospital Staff approach family about donation options Legal next-of-kin (NOK) fully informed of donation options and recovery procedures Legal NOK grants consent for DCD following withdrawal of support Family offered opportunity to be present during withdrawal of support OPC obtains 	 Management MD, in collaboration with OPO, implements management guidelines. Establish location and time of withdrawal of support Review plan for withdrawal to include: - Pronouncing MD (should be in attendance for duration of withdrawal of support, determination of death, and may not be a member of the transplant team) - Comfort Care - Extubation and discontinuation of ventilator support - Establish plan for continued supportive care if pt survives > one hour or predetermined time 	 Death/Organ Recovery Withdrawal occurs in OR ICU OtherOtherO Family present for withdrawal of support yes no OR/Room prepared and equipment set up Transplant team in the OR (not in attendance during withdrawal) Care giving team present Administration of pre- approved medication (e.g. Heparin/Regitine) Withdrawal of support according to hospital/MD practice guidelines Time Vital signs are monitored and recorded every
O Organ	insufficiency: apneic or	O Medical Hx	med/soc history	interval after	minute (See attached
Procurement Organization	severe hypopneic; techymper > 30 breaths	O Surgical Hx O Social Hx	Notification of donation	withdrawal of support	sheet) O Pt pronounced dead
(OPO)	tachypnea \geq 30 breaths /min after DC ventilator	O Social HxO Death likely < 1 hour	O Hospital supervisor	O Notify OR/Anesthesia	and appropriate
(010)	O Dependent on	following withdrawal	O ME/Coroner notified	Review patient's	documentation
	mechanical	(determined	ME/Coroner &	clinical course,	completed

	 mechanical circulatory support (LVAD; RVAD; V-A ECMO; Pacemaker with unassisted rhythm < 30 beats per minute. Severe disruption in oxygenation: PEEP≥ 10 and SaO2 ≤ 92%; FiO2 ≥ .50 and SaO2 ≤ 92%; V-V ECMO requirement Dependent upon pharmacologic circulatory assist: Norephinephrine, epinephrine, or phenylephrine ≥ 0.2 ug/kg/min IABP and inotropic support: IABP 1:1 and dobutamine or dopamine ≥10 ug/kg /min and CI ≤ 2.2 L/min/M2; IABP 1:1 & CI ≤ 1.5 L/min/M2 	(determined collaboratively by evaluating: injury, level of support, respiratory drive assessment)	releases for donation <u>ME/Coroner</u> has restrictions Stop Pathway if – <i>Family, ME/Coroner</i> denies consent <i>Patient determined to</i> be unsuitable candidate for DCD <i>Patient progresses to</i> brain death during evaluation – refer to brain dead pathway	 withdrawal plan and potential organ recovery procedures Schedule OR Time Notify recovery teams Prepare patient for transport to prearranged area for withdrawal of support Patient transported to prearranged area Note: Should the clinical situation require premortum femoral cannulation, the following should be reviewed: family consent or understanding MD inserting cannula Time and location of cannula insertion If death does not occur, determine if cannula should be removed 	Time Date MD O Transplant Team initiates surgical recovery at prescribed time following pronouncement of death O Allocation of organs per OPTN/UNOS policy O If cardiac death not established within 1 hour or predeter- mined time interval after withdrawal of support – Stop Pathway. Patient moved to predetermined area for continuation of supportive care. O Post mortem care administered
Labs / Diagnostics		 ABO Electrolytes LFTs PT/PTT CBC with Diff Beta HCG (female pts) ABG 		 Repeat full panel of labs additionally: O Serology Testing infectious disease profile O Blood cultures X 2 O UA & Urine culture O Sputum Culture O Tissue typing 	
Respiratory	 Maintain ventilator support Pulmonary toilet PRN 	O Respiratory drive assessment RR VT VE NIF	 ABGs as requested Notify RT of location and time of withdrawal of support 	O Transport with mechanical ventilation using lowest FiO ₂ possible while maintaining the SaO ₂ >90%	

		Minutes off ventilator O Hemodynamics while off ventilator HR BP SaO ₂			
Treatments / Ongoing Care	Maintain standard nursing care to include: O Vital signs q 1 hour O I & O q 1 hour				 Post mortem care at conclusion of case
Medications				O Provide medications as directed by MD in consult with OPC	O Heparin and other medications prior to withdrawal of support
Optimal Outcomes	The potential DCD donor is identified & a referral is made to the OPO.	The donor is evaluated & found to be a suitable candidate for donation.	The family is offered the option of donation & their decision is supported.	Optimal organ function is maintained, withdrawal of support plan is established, and personnel prepared for potential organ recovery.	Death occurs within one hour of withdrawal of support and all suitable organs and tissues are recovered for transplant.

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