





SOCIETAT Catalana de Trasplantament

ACHIEVING COMPREHENSIVE COORDINATION IN ORGAN DONATION THROUGHOUT THE EUROPEAN UNION Spanish Results

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> > http://www.accord-ja.eu

European

Commission



GOBJERNO

MINISTERIO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD



CONGRESO

BARCELONA

18-20 MARZO 2015



ACCORD AIM

ACCORD - Joint Action co-funded by the European Commission, coordinated by Organización Nacional de Trasplantes (ONT)

Aim

ACCORD intends to strengthen the full potential of Member States in the field of organ donation and transplantation, improving the cooperation between them and contributing to the effective implementation of the EU Directive 2010/53/EU and the Action Plan on Organ Donation and Transplantation (2009-2015): Strengthened Cooperation between MS.

The consortium



Bulgaria: BEAT Croatia: MOHSW **Cyprus:** Ministry of Health Czech Republic: KST Estonia: TUH France: ABM Germany: DSO Greece: HTO Hungary: HNBTS Ireland: HSE Italy: ISS-CNT Latvia: PSCUH Lithuania: NTB Malta: MHEC Norway: HDIR **Poland:** Poltransplant Portugal: IPST Romania: ANT Slovenia: Slovenija Transplant Slovak Republic: NTO Spain: ONT The Netherlands: DTF **United Kingdom: NHSBT**





Coordination in Organ Donation

The consortium



EUROTRANSPLANT

European Organ Exchange Organizations

Eurotransplant Scandiatransplant



Professional Associations

European Hospital and Healthcare Federation (HOPE) European Society of Intensive Care Medicine (ESICM) European Donation and Transplant Coordination Organisation (EDTCO)



Other

Organisation des Établissments de Soins (Belgium) Hospital Clínic Barcelona (Spain) Ghent University Hospital (Belgium)







COLABORATING PARTNERS (10)



ACCORD Objectives

- 1. Improve MS information systems on living organ donation through the provision of recommendations on the design and management of structured registries and through setting down a model for supranational data sharing (PanEuropean registry of registries)
- 2. Facilitate the cooperation between critical care professionals and donor transplant coordinators, to optimize the realization of the process of donation from the deceased
- 3. Implement practical collaborations between EU countries for the transfer of knowledge, expertise or tools in specific areas related to the *Directive 2010/53/EU* and the *Action Plan on Organ Donation and Transplantation (2009-2015)*, based on comprehensive and specifically prepared protocols





Aim and Objectives of ACCORD WP 5

Coordination: NHSBT



To strengthen the cooperation between critical care professionals and donor transplant coordinators to optimize the development of the process of donation after brain death.

- To describe the usual end-of-life care pathways applied to patients who die as a result of a devastating brain injury in Europe – observational study (Phase 1)
- To apply a rapid improvement methodology (PDSA) to support modifications in end-of-life management that preserve the possibility of donation – intervention study (Phase 2)





Practices at the end-of-life and organ donation

Subanalysis of Spanish data



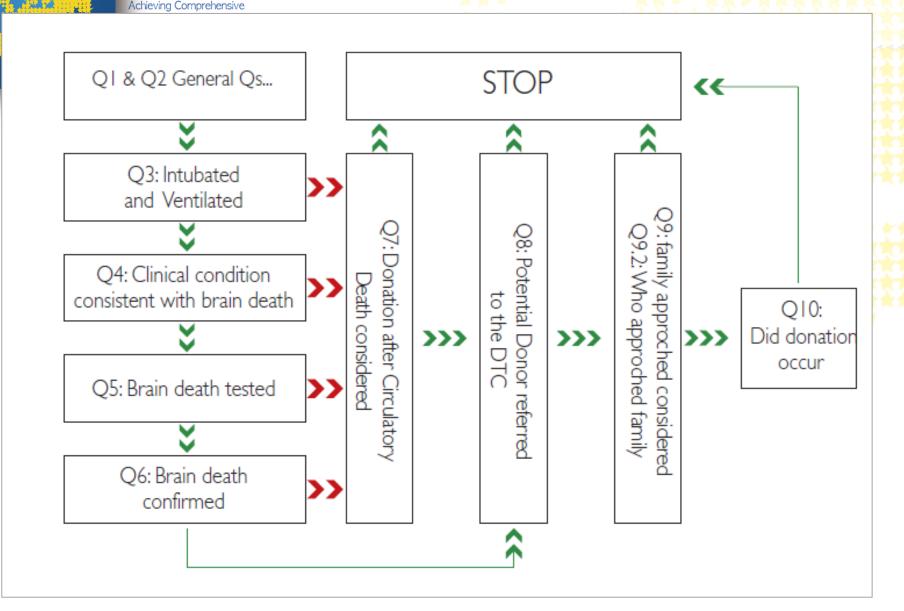
Patients & methods I

- Transnational, multicenter, observational study
- Prospective review of clinical charts of patients dead as a result of a devastating brain injury (possible donors) in <u>any unit</u> of the hospital, <u>aged ≤ 80 years</u>

Identification of cases:

- Daily or cuasi-daily review of diagnoses of patients dead in the hospital -ICD -10
- Review of clinical chart disregarding cases not dead as a result of a devastating brain injury
- Períod: 1/3/2013-31/8/2013 6 months
- All consecutive cases up to 50

Patients and methods II



COVO





Hospitals participating in ACCORD



67 hospitals /	/ 15 MS
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Country	Number of audited hospitals
Croatla	2
Estonia	2
France	2
Germany	2
Greece	2
Hungary	2
Ireland	2
italy	4
Latvia	2
Lithuania	2
Portugal	3
Slovenia	2
Spain	17
The Netherlands	4
UK	19
Total	67

Achieving Comprehensive Coordination in Organ Donation

Spanish hospitals participating in ACCORD

1	F10-72-02			
5	ANDALUCÍA	Hospital Univ. Carlos Haya - Málaga	Miguel Lebrón	
	CANTABRIA	Hospital Univ. Marqués de Valdecilla- Santander	Eduardo Miñambres	
		Complejo Asistencial de Ávila - Ávila	Antonio Isusi	
	CASTILLA Y	Complejo Asistencial Univ. De Burgos - Burgos	Mª Amor Hernando	
		Complejo Asistencial Univ. de León - León	Carlos Fernández-Renedo	
		Complejo Hospitalario de Salamanca - Salamanca	Alvaro García Miguel	
	LEÓN	Hospital General de Segovia - Segovia	Santiago Macías	
		Hospital Clínico Universitario - Valladolid	Pablo Ucio	
		Hospital Río Hortega - Valladolid	Pedro Enríquez	
		Hospital Virgen de la Concha - Zamora	Ana Caballero	
		Complejo Hospitalario La Mancha Centro –	Carmen Martín	
	CASTILLA LA	Alcázar de San Juan		
	MANCHA	Hospital General Univ. de Ciudad Real – Ciudad Real	MªSol Martínez Mingallón	
	CATALUÑA	Hospital General de la Vall d'Hebrón - Barcelona	Teresa Pont	
	GALICIA	Hospital Univ. de Lugo - Lugo	Jose Mª Sánchez Andrade	
F		Hospital Santiago Apóstol - Vitoria	Esther Corral	
	PAÍS VASCO	Hospital de Cruces - Bilbao	Kepa Esnaloa	
		Donostia Ospitalea – San Sebastian	Lucía Elosegui	

Thanks to all

Possible donors: demographics & clinical data

62%

Achieving Comprehensive Coordination in Organ Donation

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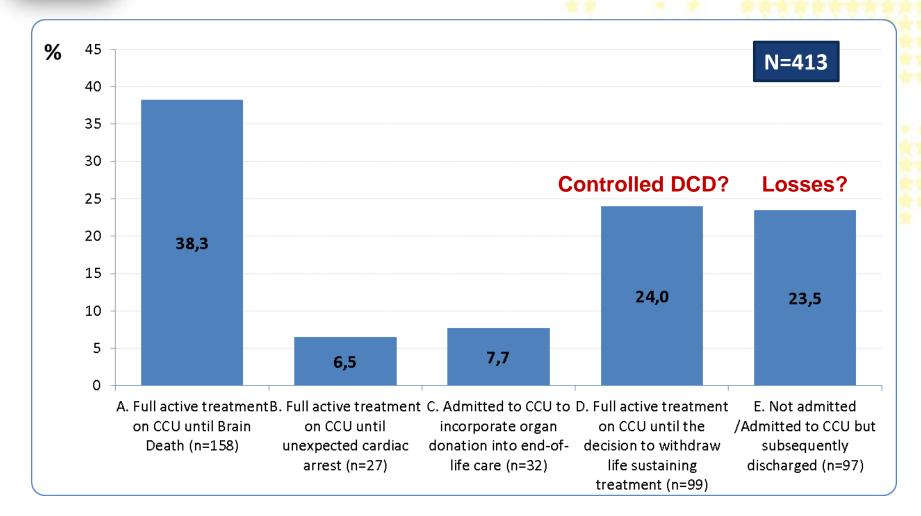
During 6 months, 413 possible donors were identified

AGE (years)	0-17 18-34 35-49 50-59 60-69 70+	11 (3%) 17 (4%) 42 (10%) 48 (12%) 100 (24%) 195 (47%)
GENDER (%)	Male Female	269 (65%) 144 (35%)
MAIN CAUSE OF DEATH (%)	Cerebrovascular Accidents Trauma Cerebral damage other Cerebral Neoplasm Infections	253 (61%) 61 (15%) 54 (13%) 36 (9%) 9 (2%)
TIME FROM BRAIN INJURY TO DEATH (days)	0 1 2 3 4-6 7-9 10+	17 (4%) 115 (28%) 70 (17%) 52 (13%) 56 (14%) 44 (11%) 59 (14%)





Statement best describing the care of the patient during final illness

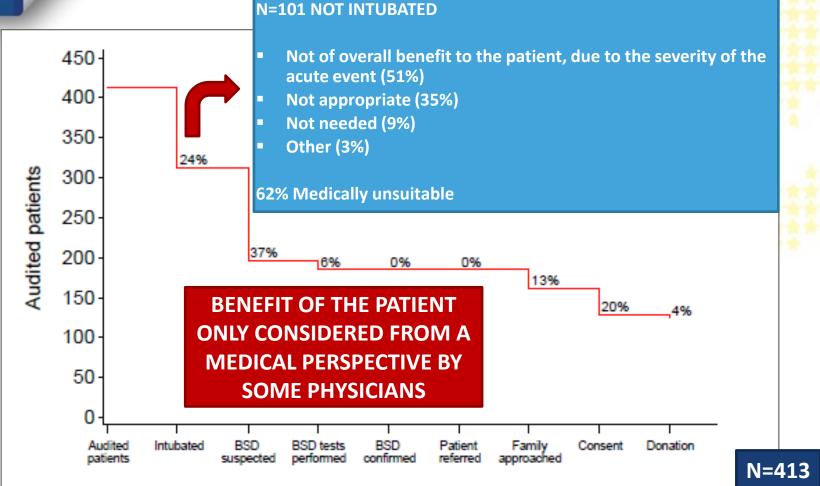




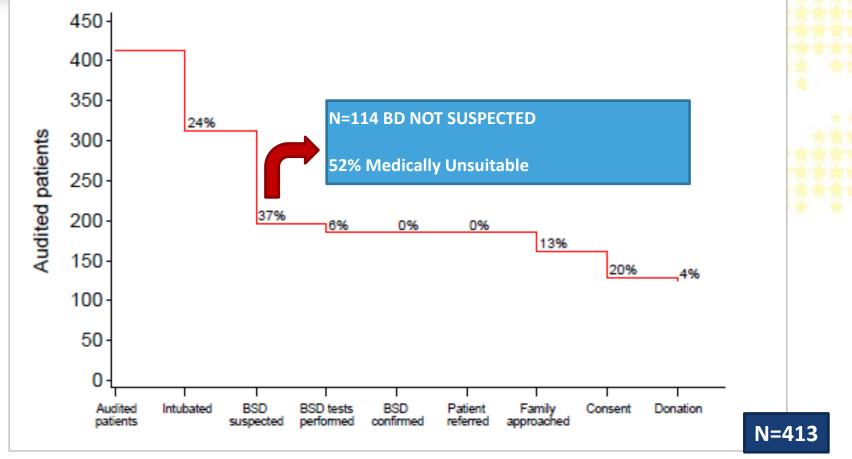


Coordination in Organ Donation

The pathway of Donation after Brain Death



The pathway of Donation after Brain Death



cord

Achieving Comprehensive

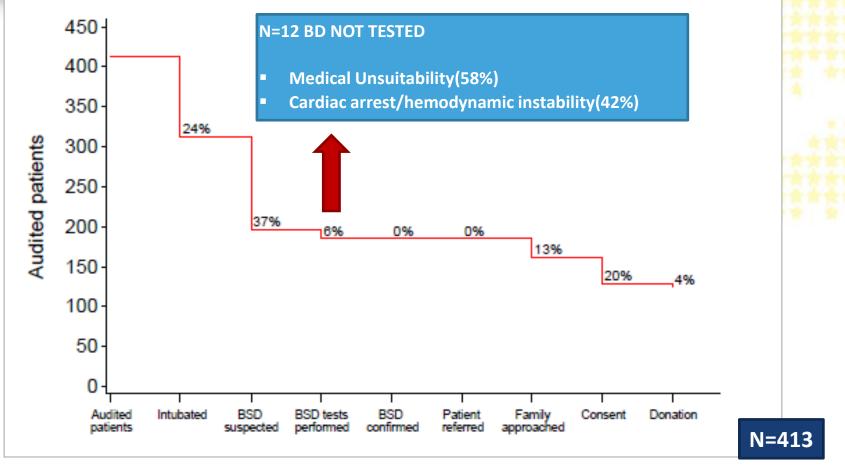
Coordination in Organ Donation



Accord

Achieving Comprehensive Coordination in Organ Donation

The pathway of Donation after Brain Death

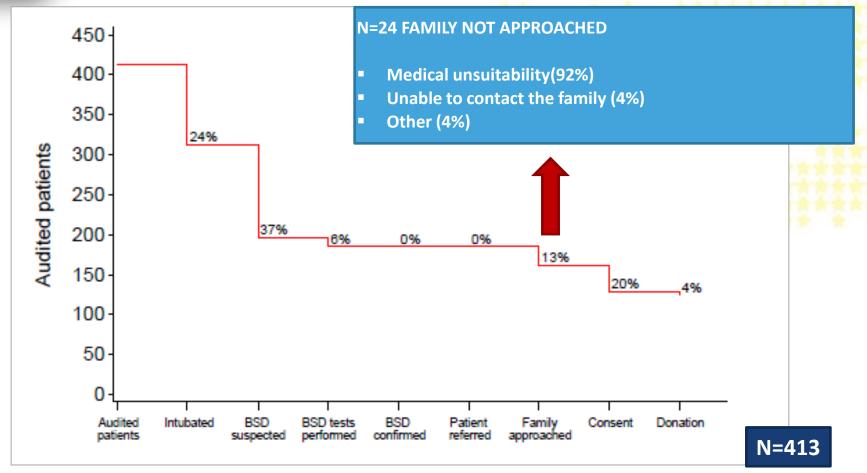




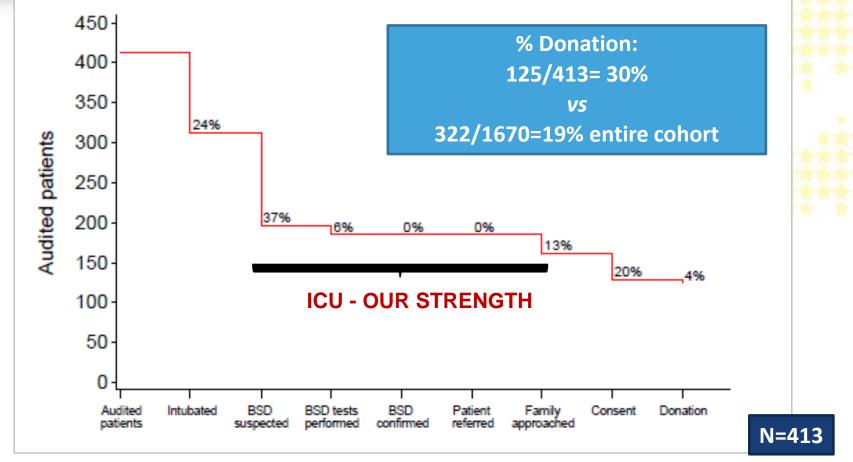


Achieving Comprehensive Coordination in Organ Donation

The pathway of Donation after Brain Death



The pathway of Donation The pathway of Donation after Brain Death



Achieving Comprehensive

Coordination in Organ Donation





Possible donors not admitted at the ICU

413 Posible donors

97 Not admitted at the ICU (23%)

28 Possible donors not admitted in the ICU and medically suitable were never referred to the DTC

33 Medically suitable (34%)

3 Intubated – 2 dead in \leq 3 days 30 Not intubated – 18 dead in \leq 3 days





Achieving Comprehensive Coordination in Organ Donation

Possible donors admitted at the ICU to incorporate donation to end-of-life care

413 Possible donors

32 Admitted to incorporate donation (referred to the DTC) (8%)

28 Brain Death (88%)

25 Family approached (89%)

14% Actual donors during the study period

18 Actual Donation (72%)







Controlled DCD

413 Possible donors

99 Dead following WLST (24%)

97 DCD not considered (98%)

47 Medically suitable (48%)

25% Possible donors dead following WLST could be potential controlled DCD

25 aged ≤ 70 years (53%)



Critical assessment of Spanish results

STRENGTHS

- The process of DBD is optimized starting at the point when a clinical condition consistent with brain death is identified.
- The admission of possible donors at the ICU to incorporate donation at the end-of-life contributes to 14% of the overall actual donation activity.

WEAKNESSES - OPPORTUNITIES

- There is a great opportunity for improvement outside the ICU, based on the cooperation with extra-ICU and inclusive of strategies for the routine and early referral of possible donors to the ICU/DTC and the consideration of elective ventilation.
- The absence of controlled DCD programmes is an important limitation to increase the availability of organs for transplantation.





Applying the PDSA methodology

Experience in Spain





Coordination in Organ Donation

Training in the PDSA methodology





ACCORD WP5: Sesión Formativa en PDSA

Fecha: 21 de Noviembre de 2013

Sede: Organización Nacional de Trasplantes. C/ Sinesio Delgado 6, pabellón 3. 28029 Madrid.

Objetivos de la jornada:

- Adquirir conocimientos en los principios y la implementación de la metodología *Plan, Do, Study, Act* (PDSA), para desarrollar y conseguir mejoras en el proceso de la donación.
- Hacer una primera aproximación a los planes de mejora a nivel de cada uno de los hospitales participantes, en base a los puntos débiles identificados en el proceso, según los datos recopilados en la primera fase del proyecto ACCORD.
- Los asistentes a esta jornada podrán trasladar esta formación al resto de miembros de sus equipos de coordinación y a otros profesionales sanitarios implicados en el proceso de donación en sus respectivos hospitales, con el fin de analizar el proceso en equipo y acordar el plan definitivo y las intervenciones de mejora.

AGENDA

11:00 h - 14:00 h: PRIMERA PARTE

- 1. Bienvenida
- 2. Introducción y análisis de cuestionarios
- 3. Herramientas y técnicas de mejora
 - a. Principios de mejora
 - b. Definición del problema
 - c. Modelo de mejora: objetivos y medida

4. Modelo de mejora: intercambio de ideas y planificación,

- a. Desarrollo, prueba y medida de las ideas de mejora b. Sostenibilidad
- 5. Fase del proyecto: Próximos pasos

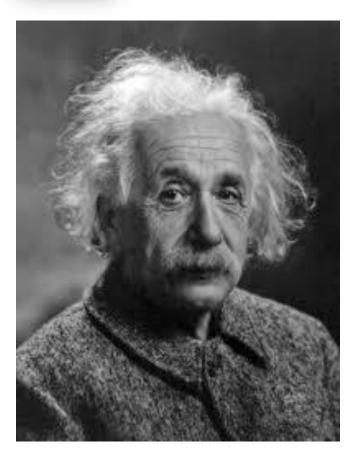
14:00 - 14:45 h DESCANSO - COMIDA

14:45 h - 17:30 h: SEGUNDA PARTE

6. Diseño del plan de mejora







"If I had one hour to save the world, I would spend 55 minutes defining the problem and only 5 minutes finding the solution."

Albert Einstein

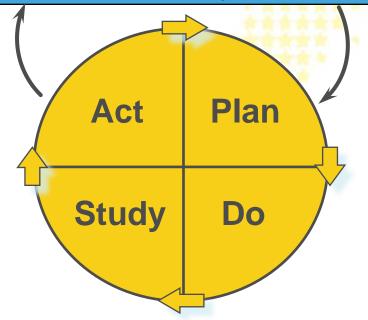


Model for Improvement

Langley G, Moen R, Nolan K, Nolan T, Norman C, Provost L, (2009), *The Improvement Guide: a practical approach to enhancing organizational performance (2nd ed)*, Josses Bass Publishers, San Francisco What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?



Understanding the problem. Knowing what you're trying to do - clear and desirable aims and objectives

Measuring processes and outcomes

What have others done? What idea do we have? What can we learn as we go along?

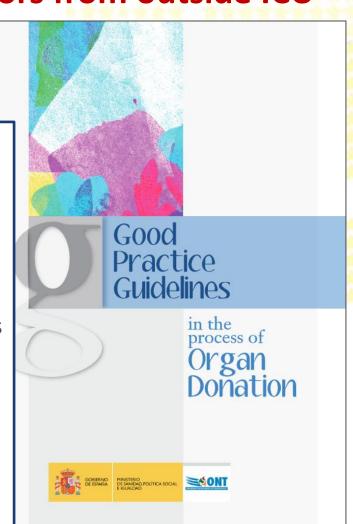
Challenge yourself

Interventions to increase referral of possible donors from outside ICU

EMERGENCY DEPARTMENT NEUROLOGY INTERNAL MEDICINE

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- Proactive follow-up of patients with a devastating brain injury – admission department-ICD, neuroimages, etc. –discussion of cases with physicians in charge.
- Protocols for the routine and early referral of possible donors to ICU/DTC when no therapeutic intervention is considered appropriate – incorporation of donation as an option at the end-of-life.
- Supporting material and training sessions.
- Appointment of professionals at extra-ICU units with responsiblity in the process of donation after death (Transplant Committee).



http://www.ont.es/publicaciones/Do cuments





Summary of interventions Hospital Vall D'Hebrón

- Monitoring compliance with pre-existing protocol for routine and early referral of possible donors to identify losses outside the ICU - <u>all hospital deaths were reviewed daily.</u>
- Feed-back by the treating physician, in case of noncompliance with the protocol. Non-compliance and reasons registered.
- Training and informative sessions on the routine and early referral protocol in all relevant areas.
- Ongoing development of general hospital recommendations regarding end-of-life care inclusive of the option to donate (involving hospital Ethics Committee).



Accord Results: 1st versus 2nd phase Hospital Vall d'Hebrón

N (%)	Phase 1 (n:51 – 6 months)	Phase 2 (n: 42 – 4.5 months)	
Admitted to ICU to incorporate donation	1 (2%)	5 (12%)	
Referred to the DTC	39 (78%)	37 (90%)	
Dead intubated	35 (69%)	30 (73%)	
Condition consistent with brain death over intubated	23 (66%)	26 (86%)	
Consent declined	5 (24%)	1 (10%)	
Actual donors	13 (26%)	19 (46%)	



According Comprehensive Coordination in Organ Donation Recommended requisites for a hospital to embark on controlled DCD

Optimized DBD

Agreed upon and fully implemented protocols for **WLST** & terminal extubation – independent ethics committee approval

Established registry of brain death cases and WLST

Local protocol on controlled DCD – independent ethics committee approval

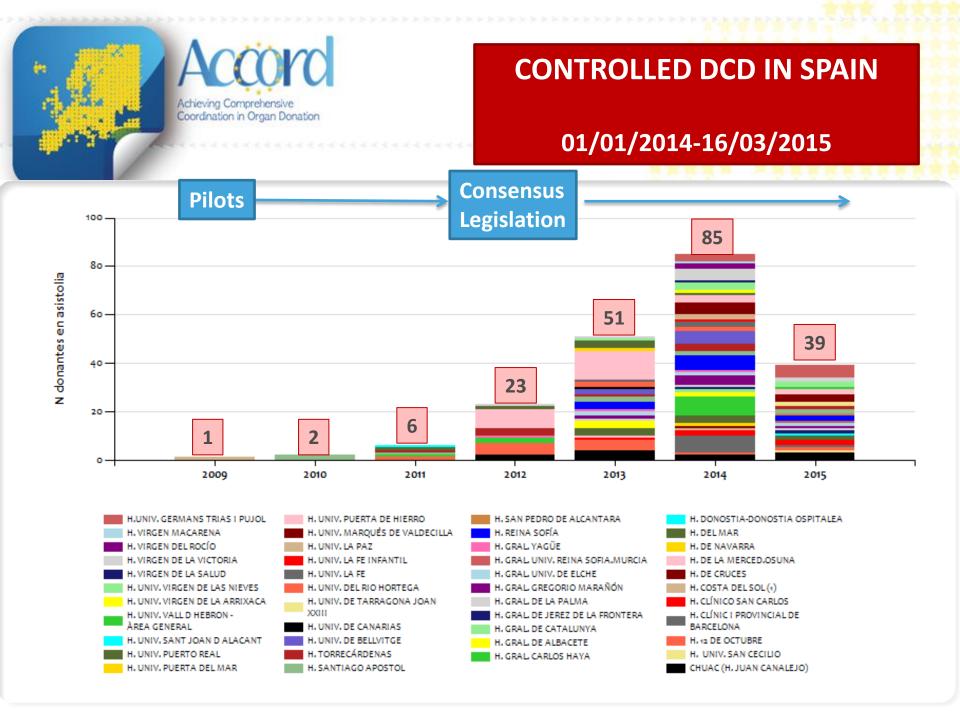
Training of all professionals involved

Education— informative session for the entire hospital on the programme

Required authorization – institutional support

2012 Spanish National Consensus Document for DCD. Available at: <u>http://www.ont.es</u>







MATHER RELATED TRANSPORT

11



Conclusions

- Potential donor audits should be continuosly adapted to capture the areas for improvement in deceased donation within a given jurisdiction – focus on units extra- ICU and potential for controlled DCD mandatory in the Spanish reality.
- PDSA methodology for a systematic approach to analysing opportunities for improvement and testing small scale interventions –useful in deceased donation.
- Continuous improvement should become a <u>way of thinking</u> and acting.
- ACCORD has been extended to the entire Spanish network of procurement hospitals - ACCORD Spain (71 hospitals).



Thanks

ACCORD Associated partners

ACCORD Collaborating partners

ACCORD WP5 leaders- NHSBT

Clinical Reference Group – Miguel Lebrón, Eduardo Miñambres & Teresa Pont

Participating hospitals throughout Europe

ONT personnel







European Donation and Transplant Coordination Organisation









http://www.accord-ja.eu

EUROTRANSPLANT











Possible donors not referred to the Donor Transplant Coordinator

413 Possible donors

115 Not referred to the DTC (28%)

Unit where death occurred

- Ward-20
- Emergency room– 8
- Stroke Unit– 6
- ICU adults–7
- ICU neurosurgery-1
- Other 3

45 Medically suitable (39%)

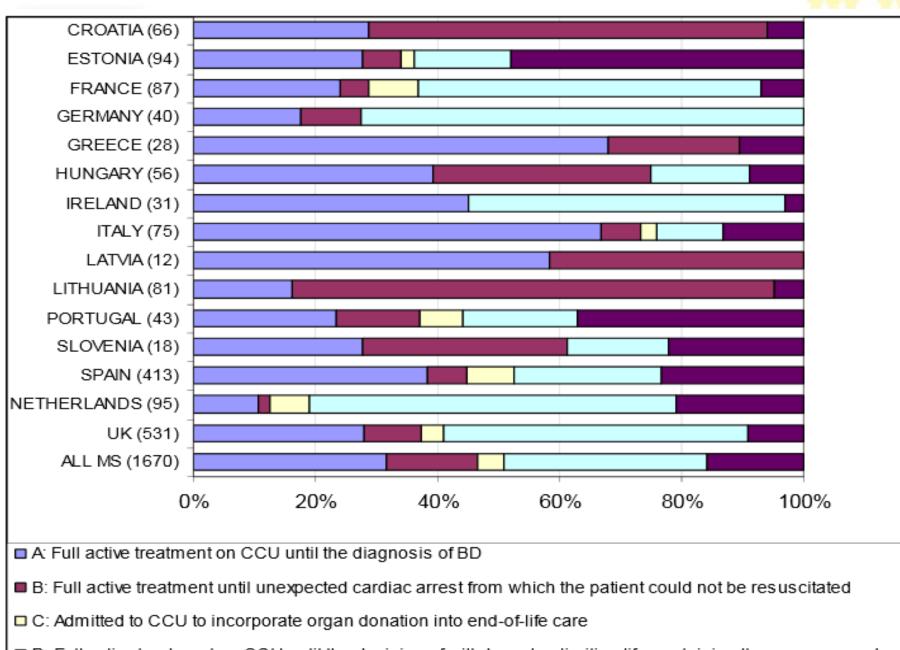
15 Intubated – 7 dead in \leq 3 days 30 Not intubated – 18 dead in \leq 3 days





Practices at the end-of-life and organ donation

A comparison of Spanish results with other countries



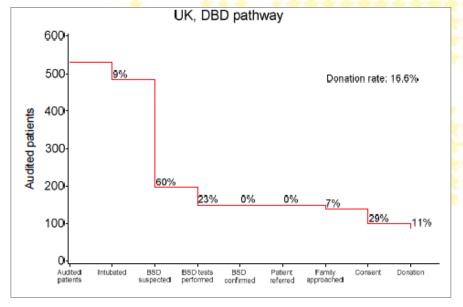
D: Full active treatment on CCU until the decision of withdrawal or limiting life sustaining therapy was made, with an expected final cardiac arrest E: Not admitted, or admitted to CCU but subsequently discharged

The process of Donation after Brain Death Spain versus UK

SPAIN, DBD pathway 450-400 Donation rate: 30% 350 24% 300 Audited patients 250 37% 200 0% 0% 13% 150 20% 4% 100 50 0 Audited Intubated BSD BSD tests BSD Patient Family Consent Donation patients referred approached suspected performed confirmed

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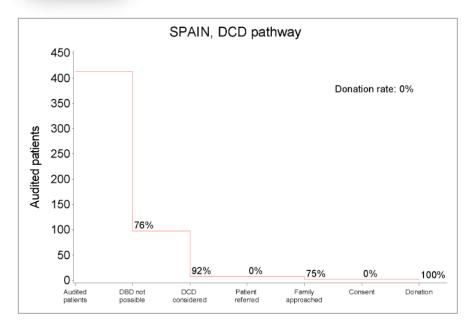
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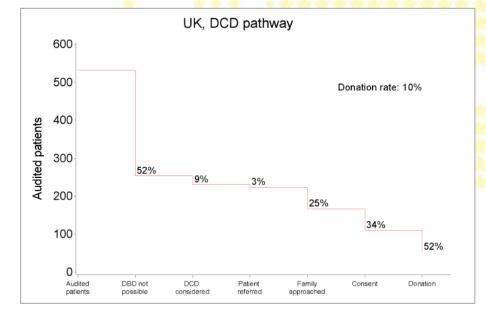






The process of Donation after Circulatory Death Spain versus UK





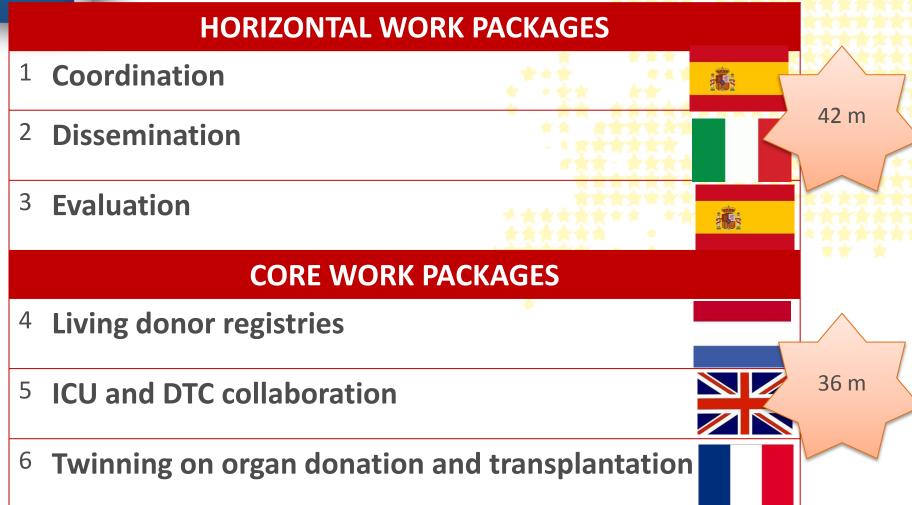








Work Plan





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Unit/Ward where death was confirmed

