

8 years on – Quality improvements in the recognition and treatment of sepsis in the Maternity Unit, Our Lady of Lourdes Hospital, Drogheda



Ms. Mary Rowland
Midwifery Clinical Skills Facilitator
Third National Sepsis Summit



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

IN CONFIDENCE

REPORT

into circumstances pertaining to the death of Mrs. Tania McCabe and her infant son Zach at Our Lady of Lourdes Hospital, Drogheda on Friday 9th March, 2007.


EXECUTIVE SUMMARY

1.11 Key Findings

The Review Team concluded that Tania died from sepsis with haemorrhage as a complicating fact. Zach has severe congenital abnormalities, consistent with otocephaly, a rare and potentially fatal condition not always readily diagnosable antenatally. Zach's death was an inevitable consequence of his congenital abnormalities.

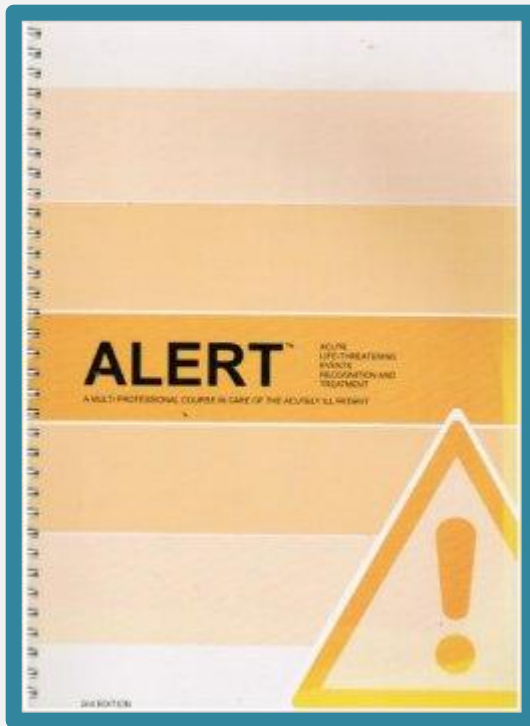
Physiological Observation Track & Trigger System

(2009)

 Louth/Meath Cavan & Monaghan Hospital Groups		Consultant: _____ Hospital: _____	Addressograph _____ _____ _____
Physiological Observation Track & Trigger System			
Ward: _____ Booking BS: _____ Month: _____ Booking Wt: _____ Date: _____ Time: _____	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ		Booking BS Booking Wt Booking Pulse Booking BP Booking SBP Booking DBP Booking Temp Booking UR Booking Catheter Y/N
Resp Rate (breaths per min) Insert number and Trend 3 250 2 20-29 1 21-25 0 10-20 -1 10-15 -2 0-9			230 26-29 21-25 10-20 10-15 0-9
Resp Rate-Score 3 250 2 20-29 1 21-25 0 10-20 -1 10-15 -2 0-9			
SpO2 Rate % Insert number 3 95-100 2 90-94 1 85-89 0 80-84 -1 75-79 -2 70-74			295 90-94 85-89 80-84 75-79 70-74
SpO2-Score 3 295 2 140 1 130 0 120 -1 110 -2 100 -3 90 -4 80 -5 70 -6 60 -7 50 -8 40 -9 30			2150 140 130 120 110 100 90 80 70 60 50 40 30
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Diastolic (DBP) score only 3 110 2 100-104 1 90-99 0 80			110 100-104 90-99 80
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Temp - Score 3 39 2 38 1 37 0 36 -1 35 -2 34 -3 33 -4 32			
Urine Rate (mls/hr) 3 300 2 30-300 1 30-200 0 30-20 -1 0-29 -2 0-9	Minimum normal rate is 0.5ml/kg/hr If there are no concerns about the volumes of urine passed then <input checked="" type="checkbox"/> Otherwise record Urine Rate in correct range <input type="checkbox"/>		300 201-300 101-200 0-29 0-9
Urine-Score 3 300 2 30-300 1 30-200 0 30-20 -1 0-29 -2 0-9			
Catheter Y/N Urine-Score Double check			

ALERT™ (Acute Life Threatening Events Recognition and Treatment) Programme

(2009)

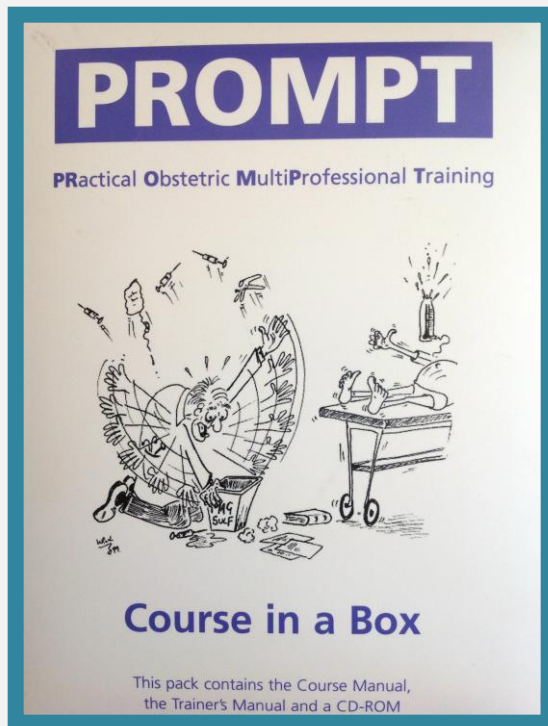


- Multi-professional
- Patient deterioration
- Maternity scenarios

PROMPT

Practical Obstetric Multi Professional Training

(2009)



- Train the trainer programme
- Multi professional team training
- Locally adapted

Emergency Skills & Drills

(2010)



- Multi-professional
- Simulated emergencies
- Team work
- Communication

Saving Mothers Lives - CMACE

(2011)

Genital tract sepsis: key message

Be aware of sepsis—beware of sepsis

Table 1.5. Numbers and rates per 100 000 maternities of maternal deaths reported to the Enquiry by cause; UK: 2000-08

Cause of death	2000-02			2003-05			2006-08		
	<i>n</i>	Rate	95% CI	<i>n</i>	Rate	95% CI	<i>n</i>	Rate	95% CI
Direct deaths									
Sepsis*	13	0.65	0.38-1.12	18	0.85	0.54-1.35	26	1.13	0.77-1.67
Pre-eclampsia and eclampsia	14	0.70	0.42-1.18	18	0.85	0.54-1.35	19	0.83	0.53-1.30
Thrombosis and thromboembolism	30	1.50	1.05-2.15	41	1.94	1.43-2.63	18	0.79	0.49-1.25
Amniotic fluid embolism	5	0.25	0.10-0.60	17	0.80	0.50-1.29	13	0.57	0.33-0.98
Early pregnancy deaths	15	0.75	0.45-1.25	14	0.66	0.39-1.12	11	0.48	0.27-0.87
Ectopic	11	0.55	0.30-0.99	10	0.47	0.25-0.88	6	0.26	0.12-0.58
Spontaneous miscarriage	1	0.05	0.01-0.36	1	0.05	0.01-0.34	5	0.22	0.09-0.52
Legal termination	3	0.15	0.05-0.47	2	0.09	0.02-0.38	0	0.00	
Other	0	0.00		1	0.05	0.01-0.34	0	0.00	
Haemorrhage	17	0.85	0.53-1.37	14	0.66	0.39-1.12	9	0.39	0.20-0.75
Anaesthesia	6	0.30	0.13-0.67	6	0.28	0.13-0.63	7	0.31	0.15-0.64
Other Direct	8	0.40	0.20-0.80	4	0.19	0.07-0.50	4	0.17	0.07-0.47
Genital tract trauma	1	0.05	0.01-0.36	3	0.14	0.05-0.44	0	0.00	
Fatty liver	3	0.15	0.05-0.47	1	0.05	0.01-0.34	3	0.13	0.04-0.41
Other causes	4	0.20	0.08-0.53	0	0.00		1	0.04	0.01-0.31
All Direct	106	5.31	4.39-6.42	132	6.24	5.26-7.41	107	4.67	3.86-5.64

Sepsis Awareness Programme

(2011)

KNOW SEPSIS™

- Educational campaign
- Incorporated sepsis into PROMPT
- COMPASS programme

World Sepsis Day

(2012)

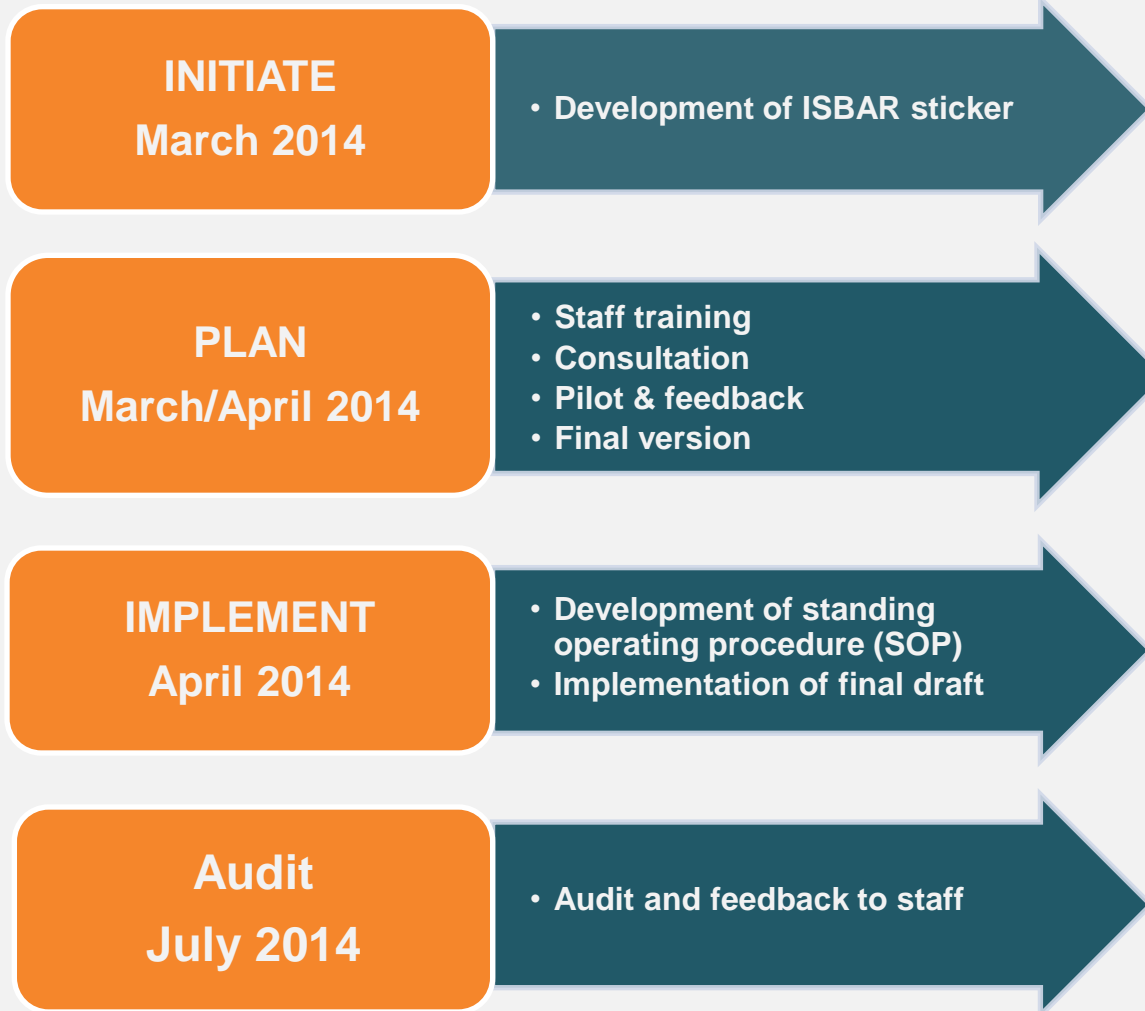




- Department of Nursing & Midwifery
- Certificate in the assessment of the acutely ill woman in maternity services

ISBAR - Identify, Situation, Background, Assessment, Recommendations

(2013)



Local Practice Guideline

(2014)

CLINICAL PRACTICE GUIDELINE THE DIAGNOSIS AND MANAGEMENT OF SEPSIS IN PREGNANCY,
LABOUR & PUERPERIUM



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

THE DIAGNOSIS AND MANAGEMENT OF SEPSIS IN PREGNANCY, INTRAPARTUM &
IN THE PUERPERIUM

CLINICAL PRACTICE GUIDELINE

OUR LADY OF LOURDES HOSPITAL, DROGHEDA

Document reference number	RCPG 23	Document drafted by	Departments of: Anaesthesia Midwifery Obstetrics Microbiology
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Approval date	January 2014	Responsibility for implementation	Midwifery Practice Development
Revision date	November 2015	Responsibility for evaluation and audit	Midwifery Practice Development
		Pages	29

- Pathways
- Sepsis screening kits on emergency trolleys



- Pilot site for national sepsis screening tool
- Ongoing sepsis education sessions
- Continue to combat sepsis together

Thank You



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