Appendix 1: General informed consent document

INTRODUCTION

You are invited to volunteer for this research study. This information leaflet is to help you to decide if you would like to participate. Before you agree to take part in this study you should fully understand what is involved. If you have any questions, which are not fully explained in this leaflet, do not hesitate to ask the researcher. You should not agree to take part unless you are completely happy about what is expected of you.

WHAT IS THE PURPOSE OF THIS STUDY?

The purpose of this study is to develop an evidence-based practice model for the implementation of Developmentally Supportive Care (DSC) in a South African public Neonatal intensive care unit (NICU). The study is planned in six phases.

The research phases and objectives are as follows:

Phase 1: Problem analysis and project planning

 To describe a conceptual framework for implementation of DSC in a South African public NICU.

Phase 2: Information gathering and synthesis

 To identify the factors involved in the successful implementation of DSC in a South African public NICU.

Phase 3: Design

• To plan and apply the information needed for the implementation of DSC.

Phase 4: Early development and implementation

 To execute the implementation plan (from phase 2 & 3) for DSC implementation in a South African public NICU.

Phase 5: Evaluation of implementation

 To evaluate the implementation plan through monitoring progress into a public NICU.

Phase 6: Advanced development and dissemination.

 To describe an evidence-based model for the implementation of DSC in a South African context.

WHAT IS EXPECTED OF YOU DURING THIS STUDY?

As a participant, you will be expected to participate during the phases 2 to 5. It is not necessary to participate during all the phases, but due to the nature of the implementation process, consistent participation would be preferred. This will include attending one or more focus groups, training on DSC principles and implementation thereof, discussion groups during DSC implementation, and environmental audits of the NICU.

The topics to be covered during these focus groups will include factors involved in successful and unsuccessful DSC implementation, as well as practices needed for successful DSC implementation. The focus group will take approximately one hour. The discussion will be recorded and transcribed. During the focus group a facilitator will lead the discussion, and an additional person or researcher might take field notes. The transcribed data will be kept in a safe place and confidentiality will be ensured at all times. No names will be mentioned in the transcribed notes and participants will remain anonymous.

Training will be provided to all members of the multidisciplinary team at a convenient time and venue. The training sessions will consist of a four hour workshop which will be presented until all members of the multidisciplinary team have had an opportunity to attend. An information document will be given to each participant on the information covered during the workshop.

The discussion groups will take place during the implementation phase which will give you, as a member of the multidisciplinary team, an opportunity to discuss problems, concerns and possible solutions that arise during the implementation of DSC. These discussions will be informal, but will still be recorded and transcribed to allow the researcher to document problems and possible solutions. These discussions will be facilitated by the researcher. Again, the principles of anonymity and confidentiality will be maintained.

The environmental audits of the NICU will be carried out during the implementation phases by the researcher and an independent observer. The environment and multidisciplinary team activities in terms of DSC principles will be observed. As a participant, you will not

have to do anything outside your daily activities during these audits. These audits will be used solely to determine the progress of implementation in the NICU.

HAS THE STUDY RECEIVED ETHICAL APPROVAL?

This study protocol (21/2004) has received ethical approval from the Research Ethics Committee of the University of Pretoria, Faculty of Health Sciences. The study is also fully supported by the Department of Nursing Science, University of Pretoria.

WHAT ARE YOUR RIGHTS AS A PARTICIPANT IN THIS STUDY?

Your participation in this study is entirely voluntary and you can refuse to participate or stop at any time without stating any reason. Your withdrawal will involve no penalty or loss of benefits. As all data collected remains confidential and anonymous, please note that once data has been transcribed and analysed, tracing of information to a particular participant will be unattainable and recall of consent at this stage will not be possible.

MAY ANY OF THESE STUDY PROCEDURES RESULT IN DISCOMFORT OR INCONVENIENCE?

Involvement in the focus groups, training and discussions will take time for participation, which is highly appreciated. There will be no discomfort or inconvenience involved during the environmental audits as these will strictly be observational. No other discomfort or inconvenience will result from your participation.

WHAT ARE THE RISKS INVOLVED IN THIS TRIAL?

There are no risks involved in participation in this study.

CONFIDENTIALITY

All information obtained during the course of this study is strictly confidential. Data that may be reported in scientific journals will not include any information that identifies you as a participant in this study.

PHOTOGRAPHY

If consent is granted, photographs may be taken in the NICU as documentation of research findings. The photographs may also be used as examples of DSC

implementation for hospital staff, parents, training and presentation of the above mentioned research.

SOURCE OF ADDITIONAL INFORMATION

If you have any questions during this study, please do not hesitate to approach the researcher.

Researcher: Ms A.C. Hennessy 082 371 5104
Supervisor: Dr S.J.C. van der Walt 012 354 2125

INFORMED CONSENT

I hereby confirm that I have been informed by the researcher, Ms A.C. Hennessy and/or consent supporter about the nature, conduct, benefits and risks of the study. I have also received, read and understood the above written information (Participant Information Leaflet and Informed Consent) regarding the study.

I am aware that the results of the study, including personal details and photographs taken will be anonymously processed into the research report for possible publication in scientific journals and use in training programs.

I may, at any stage, without prejudice, withdraw my consent and participation in the study. I have had sufficient opportunity to ask questions and of my own free will declare myself prepared to participate in the study.

Participant's name		(Please print)
Participant's signature		Date
Witness's name		(Please print)
Witness's signature		Date
_	erewith confirm that the abovuct and risks of the above stud	e participant has been informed fully y.
Researcher's name		(Pease print)
Researcher's signature		Date

Appendix 2: Questionnaire 1

Medi	cal Staff		Nurs	sing Staff]	Allied Health		Non-medical Support Services
This ir	nformation v	will k	e kep	ot anonym	ous	and confidentia	al	
<u>Aware</u>	ness meeti	ing c	<u>juesti</u>	<u>ons</u>				
1.	Do you thunit?	nink	that	developm	ent	al care can be	im	plemented successfully in your
	Yes	No	,	Unsure				
2.	Do you th	ink t	hat yo	ou can coi	ntrib	oute to the succ	ess	of this project?
	Yes	No	,	Unsure				
3.	What are	you	expe	ectations f	or th	his project?		
_								
_								
4.	What are	you	r cond	cerns abou	ut th	nis project?		
_								
_								
								
5.	What reso	ourc	es wil	l you need	d to	enable the succ	cess	s of this project?
_								

Appendix 3: Commitment certificate



Appendix 4: Environmental audit instrument

If "Yes", briefly describe:

If item is present, please mark with a tick (\checkmark). If not present or observable	, please mark
with a cross (x).	
SECTION ONE	
1. HEALTH CARE FACILITY	
1.1 Name of hospital: Date:	
1.2 Unit manager's contact details:	
1.3 Developmental care implementation date:	
1.4 Unit's bed capacity:	
1.5 No. of patient in the unit:	
1.6 Estimated staff parent ratio	
☐ : ☐ Intensive care	
☐:☐ High care	
☐ : ☐ Low care	
☐ : ☐ Other (specify)	
1.7 Level(s) of neonatal care provided:	
☐ Intensive care	
☐ High care	
☐ Low care	
Other (specify)	
SECTION TWO	
2. PRINCIPLE ONE: INDIVIDUALISED CARE	
2.1 Individualised care plan	
☐ Observed (visible)	

☐ F	Procedure	es done acco	rding to infants needs (prn	suctioning, cluster
care)				
	ndividual	ise infant's sp	pace / bed (personal belon	gings, toy, etc)
	erified fr	om records		
	/erified o	ther (specify)		
	ack of in	dividualised o	care (specify)	
_				a, tachypnoea / bradypnoea
-		• •		n colour changes, feeding
intolerance	e, nyperg	lycemia, hypc	giycaemia)	
Item		Observed	Verified from records	Verified other (specify)
Staff observe P	SC			vermed earer (epeemy)
Staff respond to				
Other (specify)				
	ack of n		└── └── tress cue recognition (spe	cifu)
	Lack of p	nysiological s	iless cue recognition (spe	City)
		• • • • • • • • • • • • • • • • • • • •		
			(extension / hyperflexio	n / hypotonia, splaying of
			ours, facial expression, etc	
nanas ana	or icci, c	Jiying benavit	ours, radial expression, etc	····)
Item		Observed	Verified from records	Verified other (specify)
Staff observe B	SC		П	()
Staff respond to	BSC			
Other (specify)				
	ack of b	ehavioural str	ess cue recognition (spec	ify)

3. PRINCIPLES TWO: FAMILY-CENTERED APPROACH

3.1 Facilities for parent	s, siblings and	grandparents	
☐ Comforta	ble chairs		
☐ Resting a	rea		
Refreshm	nents facility		
☐ Visitation	policy (specif	y)	
3.2 Family involvement	and empowe	rment facilitated by staff	
Observed	d (visible)		
If "Yes", t	oriefly describe	e:	
Item	Observed	Verified from records	Verified other (specify)
Parent(s) informed			
about infant's condition			
and related aspects			
Parent(s) involved in			
medical decisions			
made involving their			
infant			
Other (specify)			
☐ Lack of fa	amily involvem	nent and empowerment (sp	pecify)
3.3 Parent-child bondin		y staff	
Observed	•		
If "Yes", k	oriefly describe	e :	

	om records		
☐ Verified of	ther (specify)		
☐ Lack of pa	arent-child bo	nding facilitation (specify)	
3.4 Informed decision m	naking		
☐ Observed	(visible)		
If "Yes", b	riefly describe) :	
Item	Observed	Verified from records	Verified other (specify)
Written / verbal			
informed consent			
obtained for minor			
procedures (x-rays,			
blood sampling, etc)			
Written informed			
consent obtained for			
major procedures			
(surgery, blood			
administration, etc)			
Other (specify)			
☐ Lack of in	formed decisi	on making (specify)	
4. PRINCIPLE THREE:	POSITIONIN	G	
4.1 No. of patients positi	ioned:		
Evidence	of positioning	(according to principles)	

	Evidence of positioning (not correct / inefficient application)
	No evidence of positioning
4.2 Flexion	(curved back, rounded shoulders, knees and ankles together with head in a
neutral p	position)
	Observed (visible)
	If "Yes", briefly describe:
	Verified from records
	Verified other (specify)
	Lack of flexion (specify)
4.3 Midline	orientation (flexed arms with hands in midline close to face, flexed legs with
feet in m	idline)
	Observed (visible)
	If "Yes", briefly describe:
	Verified from records
	Verified other (specify)
	Lack of midline orientation (specify)
4.4 Containr	ment (firm unrestricting boundaries, swaddled bathing / weighting / procedure)
	Observed (visible)
	If "Yes", briefly describe:

		Verified from records
		Verified other (specify)
		Lack of containment (specify)
4.5	Kangaroo	care (skin-to-skin contact, nutrition, early discharge)
		Observed (visible)
		If "Yes", briefly describe:
		Continuous kangaroo care (24hrs/day excl. mother's bath time)
		Intermittent kangaroo care (20min/day minimum)
		Verified from records
		Verified other (specify)
		Lack of kangaroo care (specify)
4.6		g aids used
		None
		Linen (blankets, towels, sheets, etc)
		Specifically designed positioning aids
		Gel wedges / gel cushions
		Sheepskin bedding / soft mattresses
		Other (specify)
5. F	PRINCIPL	E FOUR: HANDLING TECHNIQUES
E 1	No of	tionto bondlod:
ວ. I	ino. of pa	tients handled:
		Evidence of handling - according to principles
	\square	Evidence of handling - not correct / inefficient application

		No evidence of handling
5.2	Positive to	ouch (skin-to-skin, hands-on containment, transitional touch)
		Observed (visible)
		If "Yes", briefly describe:
		Verified from records
		Verified other (specify)
		Other positive touch (specify)
		Lack of positive touch (specify)
5.3	Correct ro	outine touch (firm touch palmer touch,
		Observed (visible)
		If "Yes", briefly describe:
	П	Incorrect techniques observed (stroking, rubbing, tickling, etc)
		Verified from records
		Verified other (specify)
		· · · · · · · · · · · · · · · · · · ·
	Ш	Lack of correct routine touch (specify)
54	Positional	changes (containment during positional changes, slow motion, one direction
	at a time)	onanges (contaminent daming positional onanges, slow motion, one allection
		Observed (visible)
	Ш	If "Yes", briefly describe:

	Verified from records
	Verified other (specify)
	Lack of correct positional changes (specify eg. 'Preemie-flip')
 5.5 Cluster	care
	Observed (visible)
_	If "Yes", briefly describe:
	Specified rest time for infants (between 12h00 and 14h00)
	Verified from records
	Verified other (specify)
	Lack of cluster care (specify)
 5.6 Day-nig	iht cycle
	Observed (visible)
_	If "Yes", briefly describe:
	Built into routine care (longer rest periods during the night)
	Verified from records
	Verified other (specify)
	Lack of day-night cycle (specify)

6. PRINCIPLE FIVE: ENVIRONMENTAL MANIPULATION

6.1	Light (d	immer switches, individual lighting, protective barriers over eyes)
		Observed (visible)
		If "Yes", briefly describe:
		Verified from records
		Verified other (specify)
		Lack of reduced lighting (specify)
6.2	Noise	(no radio or TV, soft talking away from infant's bed, quick response to ne and alarms, quiet shoes, music therapy, protective barriers over ears)
		Observed (visible)
		If "Yes", briefly describe:
		Verified from records
		Verified other (specify)
		Lack of reduced noise (specify)
6.3	Smell (r	reduction of strong odours, positive olfactory stimuli)
		Observed (visible)
		If "Yes", briefly describe:

	West of the control o
	Verified from records
	Verified other (specify)
Ш	Lack of negative smell manipulation (specify)
. PRINCIP	PLE SIX: NON-NUTRITIVE SUCKING
.1 Non-nu	tritive sucking (pacifiers, thumbs, nipple, during feeding, for self-regulato
effect)	
	Observed (visible)
	Observed (visible) If "Yes", briefly describe:
	If "Yes", briefly describe:
	If "Yes", briefly describe:
 	If "Yes", briefly describe:
 	If "Yes", briefly describe:
	If "Yes", briefly describe:
	If "Yes", briefly describe: Verified from records
	If "Yes", briefly describe: Verified from records Verified other (specify)
	Verified from records Verified other (specify) Lack of non-nutritive sucking (specify)
	Verified from records Verified other (specify) Lack of non-nutritive sucking (specify)
	Verified from records Verified other (specify) Lack of non-nutritive sucking (specify)

8. PRINCIPLE SEVEN: PAIN MANAGEMENT

8.1 Pain management (syrup simplex during painful procedures or during stressful episodes)

	Observed (visible)	
	If "Yes", briefly describe:	
	Verified from records	
	Verified other (specify)	
	Lack of pain management (specify	')
SECTION 1	THREE	
9. ORIENT	TATION, TRAINING AND PARTICIPA	TION
9.1 How oft	ften do you get new staff in the unit (or	ganogram)?
Ш	Rotate (specify: internal / external)	
	Who rotates?	
	Rotation intervals?	
9.2 Is orient	ntation regarding developmental care g	iven to all new staff?
	Yes	
	No	
	Not applicable	
9.3 If "Yes "	s", how is the orientation conducted (co	py)?
	Oral orientation	☐ Verified from in-service records
	Written orientation	☐ Verified from in-service records
	Other (specify)	
9.4 Have s	staff members in the unit had specif	ic training regarding developmental care
impleme	nentation?	
	Yes	
	No	

	Unsure
If "Yes	", specify:
9.5 ls there	a protocol / policy that ensures all staff are adequately training in
developme	ental care principles?
	Yes
	No
	Unsure
If "Yes	", specify:
9.6 Which cate	egories of staff are involved in developmental care?
П	Medical staff
	Nursing staff
П	Allied health
	Non-medical support services (cleaning staff, ward clerk, porter, etc)
	Other (specify)
9.7 What is the	e multidisciplinary team's level of involvement?
П	Much involvement and/or support
	Some involvement and/or support
	Impartial / little support / resistance
Other •	comments (specify)
9.8 Which ma	nagerial positions are involved in developmental care?
П	CEO / Superintendent
	Nursing service manager (specify)
<u> </u>	
	Unit manager / Sister in charge
	Other (specify)
9.9 What is th	e management's level of involvement?

	Much involvement and/or support
	Some involvement and/or support
	Impartial / little support / resistance
Oth	ner comments (specify)
9.10 Ge	neral impression on routine application of developmental care principles
	Good
	Average
	Poor
	Unsure
Comm	nents:
10. DEVE	LOPMENTAL CARE DOCUMENTATION
10.1 Natur	e of unit record(s) showing proof of developmental care
	Unit register
	Nursing records / bed letter
	Medical records
	Individualised care plan form
	Other (specify)
10.2 Polici	es available in the unit
	Developmental care policy (view policy)
	Kangaroo care policy (view policy)
	Developmental care included in unit philosophy (view philosophy)
	Developmental care included in unit mission (view mission)
	Developmental care included in unit vision (view vision)
	Other (specify)
10.3 Guide	elines and procedures for developmental care implementation
	Medical staff
	Nursing staff
	Allied health
	Non-medical support services (cleaning staff, ward clerk, porter, etc)
	Other (specify)

10.4 What info	rmation is available for parents?
	Information sheet(s) / pamphlet(s)
	Oral education (verify from parents)
	Books / internet resources / poster(s) or pictures on wall
	Other (specify, eg video, audiotapes)

Appendix 5: Institutional informed consent document

APPLICATION TO CONDUCT A RESEARCH STUDY

Faculty of Health Sciences Research Ethics Committee University of Pretoria Pretoria Academic Hospital South Africa

Tel: (012) 339 8612 Fax: (012) 339 8587

E Mail: <u>manda@med.up.ac.za</u> - Main Committee E Mail: <u>dbehari@med.up.ac.za</u> - Student Committee Soutpansberg Road - MRC-Building - Level 2 - Room 19 Private Bag x 385 – Pretoria – 0001

GENERAL INFORMATION AND	AGREEMENT BY	APPLICANT
--------------------------------	--------------	------------------

GLIVE	NAL INI ONMATION AND AGNEEMENT BY AFFEICANT						
1.	APPLICANT: Investigator Angie Catherina Hennessy						
1.1	FIRM:						
	Name of firm : N/A						
	Telephone Number: +27 12 3464099 (H), +27 82 371 5104						
	Fax Number: +27 12 4609713						
	E.Mail address: angiech@iafrica.com						
	Postal Address: P.O.Box 1218, Groenkloof, Pretoria, SA, 0027						
1.2	FULL TITLE OF RESEARCH STUDY: Facilitation of developmental care for						
	high-risk neonates: an intervention study						
1.3	OUTLINE DETAILS OF PREVIOUS TRIALS/EVALUATIONS CONDUCTED IF ANY						
	Developmentally Supportive Care: The effects of positioning on the stress						
	levels of the preterm infant (S112/2002)						
1.4 RE	EGISTRATION						
1.4.1	NON-PHARMACEUTICAL						
1.4.1.1	. State registration/code number : N/A						
1.4.1.2	What is the estimated cost of these investigations? R24 150.00						
1.4.1.3	. Who will be responsible for these costs? The Researcher						
1.4.1.4	. What other equipment will be required for the study? All necessary						
	equipment will be provided by the researcher, eg linen, if the need						
	arises during DSC implementation.						

1.5 ARE ANY SPECIAL PRECAUTIONARY MEASURES TO BE TAKEN AND BY WHOM?

Any items needed for the research study will be provided by the researcher at no additional cost to your hospital.

1.6 INDICATE EXPECTED DATE OF RESEARCH STUDY REPORT:

DAY	MONTH	YEAR
30	November	2005

1.7 INDICATE NUMBER OF PARTICIPANTS INVOLVED:

The researcher would like to conduct in-depth interviews with members of the multidisciplinary team involved during the implementation of developmental care.

1.8	THE NAME(S) OF THE HEAD OF THE DEPARTMENT:

1.9 WILL SUFFICIENT RESEARCH STUDY MATERIAL BE SUPPLIED?



No

1.10. AGREEMENT BY APPLICANT

- 1.10.1. The applicant(s) agree(s) as follows
- 1.10.2. To conduct the research study recorded in and under the conditions set out in this application form.
- 1.10.3. To conduct this research study at no additional expense to your hospital whatsoever.
- 1.10.4. To accept full responsibility for any or all possible harmful effects on a participant by participating in the in-depth interview.
- 1.10.5. To exonerate your hospital from all liability of damages, legal, financial or otherwise, including my claim instituted by a participant involved in this study.

THE APPLICANT MUST SIGN HERE

APPLICANT- INVEST	IIGATOR		DATE		
Signature	Initial(s)	Surname	Day	Month	Year

Designation/ Rank:

2.	INITIAL CONSENT BY DEI	PARTMENTAL HEAD	
21	1	head of	

	The officer condu	acting the tri	iai/evaii	uation w					
	Designation / Rai	nk							
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Appendix 6: In-depth interview informed consent document

INTRODUCTION

You are invited to volunteer for this research study. This information leaflet is to help you to decide if you would like to participate. Before you agree to take part in this study you should fully understand what is involved. If you have any questions, which are not fully explained in this leaflet, do not hesitate to ask the researcher. You should not agree to take part unless you are completely happy about what is expected of you.

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The purpose of this study is to develop an evidence-based practice model for the implementation of Developmentally Supportive Care (DSC) in a South African public Neonatal intensive care unit (NICU). The study is planned in six phases.

The research phases and objectives are as follows:

Phase 1: Problem analysis and project planning

 To describe a conceptual framework for implementation of DSC in a South African public NICU.

Phase 2: Information gathering and synthesis

 To identify the factors involved in the successful implementation of DSC in a South African public NICU.

Phase 3: Design

• To plan and apply the information needed for the implementation of DSC.

Phase 4: Early development and implementation

• To execute the implementation plan (from phase 2 & 3) for DSC implementation in a South African public NICU.

Phase 5: Evaluation of implementation

 To evaluate the implementation plan through monitoring progress into a public NICU.

Phase 6: Advanced development and dissemination.

 To describe an evidence-based model for the implementation of DSC in a South African context.

WHAT IS EXPECTED OF YOU DURING THIS STUDY?

As a participant, you will be expected to participate in an in-depth interview with the researcher about the implementation of DSC. The topics covered during the interview will help the researcher to determine and identify factors that promote or inhibit the successful implementation of developmental care. The interview will take approximately an hour and a half to complete. The completion of the interview will take place during a visit to your hospital. The interview will be digitally recorded on a digital voice recorder. During the interview, the researcher might take field notes. Once transcribed and analysed, the data will be kept in a safe place and confidentiality will be ensured at all times. No names will be mentioned in the analysed information and participants will remain anonymous.

HAS THE STUDY RECEIVED ETHICAL APPROVAL?

This study protocol (21/2004) has received ethical approval from the Research Ethics Committee of the University of Pretoria (South Africa), Faculty of Health Sciences. The study is also fully supported by the Department of Nursing Science, University of Pretoria.

WHAT ARE YOUR RIGHTS AS A PARTICIPANT IN THIS STUDY?

Your participation in this study is entirely voluntary and you can refuse to participate or stop at any time without stating any reason. Your withdrawal will involve no penalty or loss of benefits. As all data collected remains confidential and anonymous, please note that once data has been transcribed and analysed, tracing of information to a particular participant will be unattainable and recall of consent at this stage will not be possible.

MAY ANY OF THESE STUDY PROCEDURES RESULT IN DISCOMFORT OR INCONVENIENCE?

Involvement in the in-depth interviews will take time for participation, which is highly appreciated. There will be no other discomfort or inconvenience.

WHAT ARE THE RISKS INVOLVED IN THIS TRIAL?

There are no risks involved in participation in this study.

CONFIDENTIALITY

All information obtained during the in-depth interview is strictly confidential. Data that may be reported in scientific journals will not include any information that identifies you as a participant in this study.

SOURCE OF ADDITIONAL INFORMATION

If you have any questions during this study, please do not hesitate to approach the

researcher. Researcher: Ms A.C. Hennessy +27 82 371 5104 (mobile)

angiech@iafrica.com

Supervisor: Dr S.J.C. van der Walt +27 12 354 2125

INFORMED CONSENT

Participant's name

I hereby confirm that I have been informed by the researcher, Ms A.C. Hennessy about the nature, conduct, benefits and risks of the study. I have also received, read and understood the above written information (Participant Information Leaflet and Informed Consent) regarding the study. I am aware that the results of the study, including personal details will be anonymously processed into the research report for possible publication in scientific journals and use in training programs.

I may, at any stage, without prejudice, withdraw my consent and participation in the study. I have had sufficient opportunity to ask questions and of my own free will declare myself prepared to participate in the study.

(Please print)

•		, ,
Participant's signature		Date
Witness's name		(Please print)
Witness's signature		Date
•	erewith confirm that the above study	e participant has been informed fully
Researcher's name		(Pease print)
Researcher's signature		Date

Appendix 7: Developmental care launch pamphlet

What are the evidence-based benefits of Developmental Care?

- + hospitalisation period
- growth & weight gain
- Improved neurodevelopmental outcomes
- + morbidity
- + stress levels
- Improved respiratory status
- Improved physiological stability
- Faster transition from tube to oral feeds
- Improved self-calming abilities

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Developmental Care Implementation Project

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Developmental Care Project Launch



Their future is in OUR hands!

What is Developmental Care?

Developmental care is an approach introduced during the 1980s abroad that altered the conventional care delivered to sick and preterm infants in order to support positive growth and development. The principles of developmental care aim at altering the neonatal intensive care unit (NICU) environment to simulate the uterine environment, hereby providing protection for the vulnerable neurological system. It allows for the stabilisation of physiological and behavioural functioning by protecting the developing neurological system, which may ultimately improve neurodevelopmental behaviour of these infants.



Why do we need developmental care?

It is well known that the NICU is a noisy and busy environment that often causes much stress for the health professionals working there. Neonates, especially sick and preterm infants experience this stress tool Each stressful incident may after the normal growth and development that would have taken place in all systems, especially the neurological system.

Internal stressors (e.g. pain, hypoxia, acidbase disturbances, infection, etc...) and external stressors (e.g. bright light, noise, incorrect positioning, sleep interruptions, excessive handling, etc..) result in stress for the neonate who presents with stress cues. Stress cues can present in two ways namely behavioural cues or physiological cues (e.g. blood pressure changes, tachycardia, bradycardia, feeding intolerance, etc...).

Behavioural cues are generally seen first and include the following: generalised hypotonia, flaccidity or floppiness, hyperextension of extremities or body, splaying of fingers and toes, facial expressions (grimace & frown), irritable behaviour, sleep disturbances, hiccupping, sneezing, gagging, spitting up and yawning.

Developmental care reduces external stressors which results in an improved environment for optimal growth and development



Behavioural Stress Cues

What are the principles of Developmental Care?

- Individualised infant care (incl. Cluster care)
- Family-centered care
- Specific positioning (incl. Kangaroo Care)
- Appropriate handling and touch
- Non-nutritive sucking
- Environmental manipulation (incl. noise reduction, light reduction & positive smell stimuli)
- Pain medication (use of syrup simplex solution and nonpharmacological interventions)

Appendix 8: Fundraising photographs









Appendix 9: Photographs of new positioning aids



