

Care of the Child with Febrile Neutropenia: Experience from a shared care system in Ireland



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ECCO 14, September, 2007

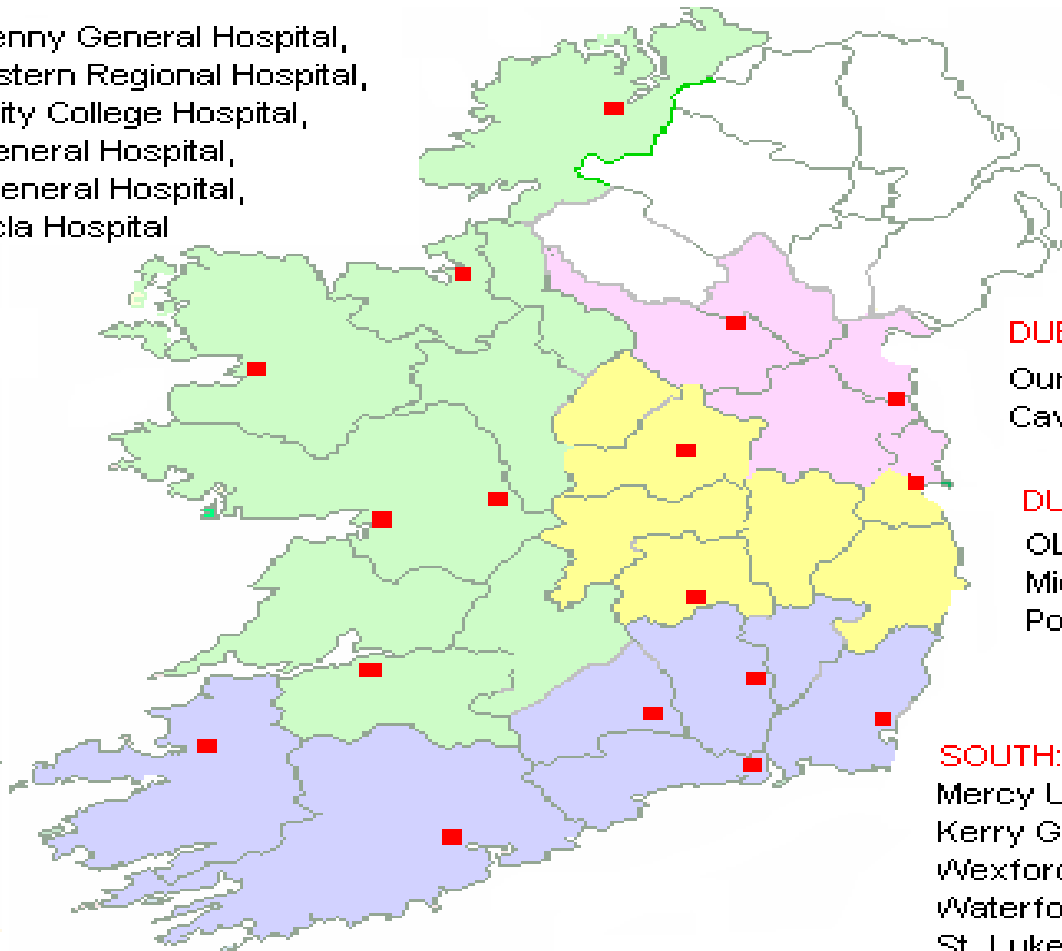
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Ireland with Shared Care Centres

WEST:

Letterkenny General Hospital,
Mid Western Regional Hospital,
University College Hospital,
Sligo General Hospital,
Mayo General Hospital,
Portluncla Hospital



DUBLIN/NORTH EAST:

Our Lady Of Lourdes Hospital,
Cavan General Hospital

DUBLIN-MID LEINSTER:

OLCHC,
Midland Regional Hospital,
Portlaoise & Mullingar

SOUTH:

Mercy University Hospital,
Kerry General Hospital,
Wexford General Hospital,
Waterford Regional Hospital,
St. Luke's General Hospital,
South Tipperary General Hospital

Advantages of Shared Care

- Child and family
- Near home
- Reduced costs
- Reduced travel time
- Decreased disruption to family life

Role of Shared Care Centres

- Generic support
- Maintain nursing & medical management
 - **Febrile Neutropenia**
 - Blood products
 - Chemotherapy

Negative impact
on patient
outcomes

Cancer
treatments

↓ Dose intensity

Myelosuppression

Haematological
toxicities

Acute life-threatening consequences

Aims

To understand the importance of
Febrile Neutropenia



Better patient care



Improved patient outcomes

Objectives

- Develop a tool
- Concise
- Easily accessible
- User friendly
- For nurses, doctors & HCP

Development

- TITAN study day
- Dissemination project
- Meetings with each other
- Research on febrile neutropenia/shared care

What did we do?

Developed an education package on
FEBRILE NEUTROPENIA

- Based on guidelines from OLCCHC
- PowerPoint slide presentation
- Pocket book
- Checklist

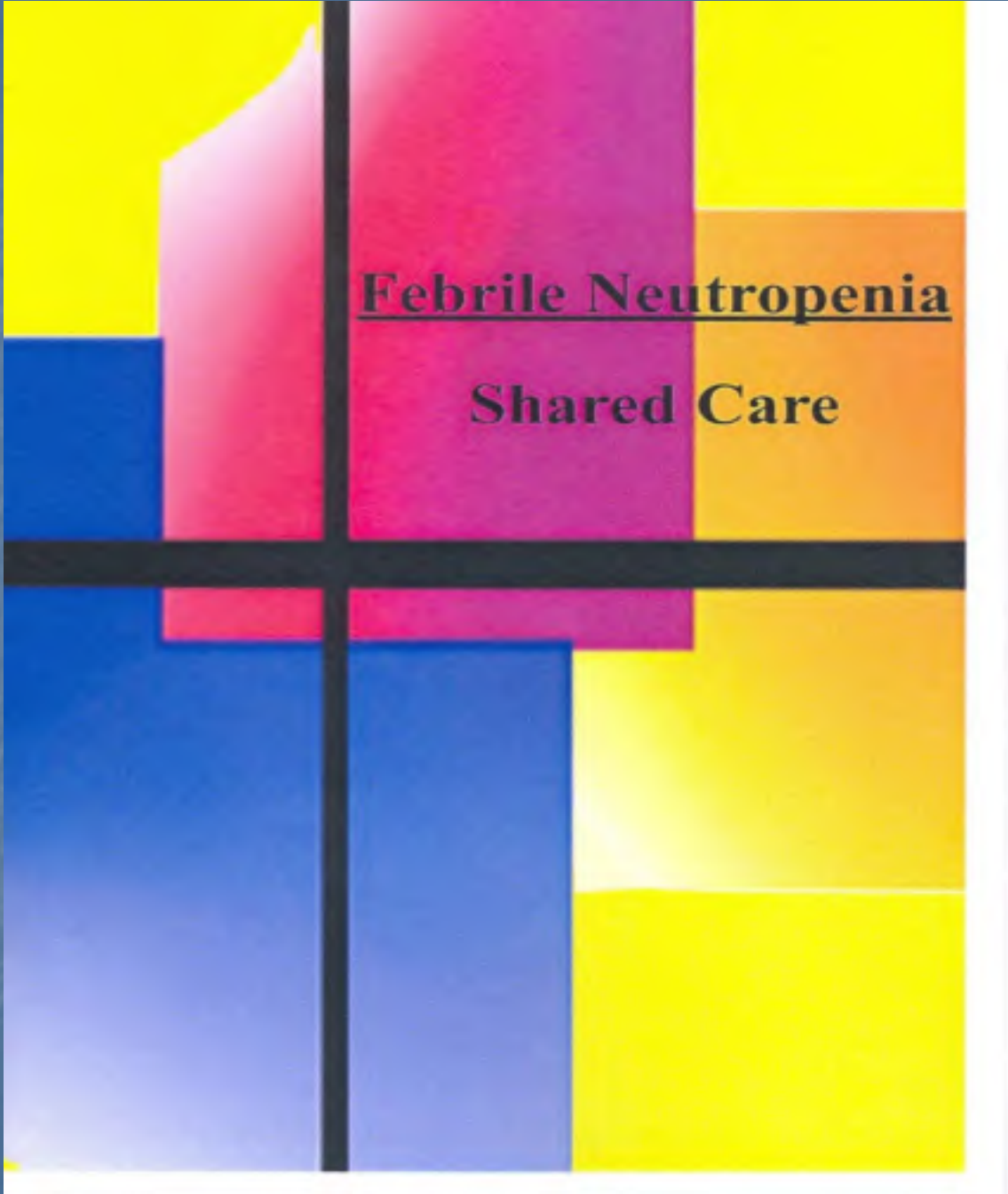
Methods

- Two educational sessions
 - Slides
 - Booklet
 - Checklist
- 17 nurses with broad spectrum of experience
- Evaluation of questionnaires

Feedback

Pocket Book

- Staff more aware
- Excellent
- Concise & helpful
- Good reference guide
- Not as complicated looking as shared care manual



Febrile Neutropenia

Shared Care

H. Noonan, F. Brady

Feedback

Slide Presentation

- Practical
- Need updates like this
- Good to have someone to ask questions
- Great orientation
- Not to long

Feedback

Checklist

- Necessary
- Daily reminder / helpful
- Clear & concise tick list
- Continuity

ADDRESSOGRAPH

Admission Date/Time: _____

Cultures Taken/Time: _____

Weight: _____

Days Post Chemotherapy: _____

Date								
Day		1	2	3	4	5	6	7
Observations	* TPR 4 Hrly							
	* B/P							
	* SPO2							
	* Skin Check							
Investigations	BLOODS							
	• Red } (Lumen Culture)							
	• White }							
	• Blue }							
	* FBC							
	* U/E							
	* Group and Hold							
	* Deep Line Culture							
	* Other							
	* Peripheral Culture							
	SWABS							
	* Nasal							
	* Throat							
	* Broviac Site							
	Other - C-x-R							
	- MSU							
	STOOLS							
	* C/S							
	* VRE							
	* Other							
Treatment	ANTIBIOTICS							
	* Tazocin							
	* Gentamicin							
	* Teicoplanin							
	* Others							
	Broviac dressing change weekly/PRN							
	Broviac Site:							
	Bionector Bung - Change weekly							
	I V Giving Set - Change every 24hrs							
	INFECTED LINE							
	* Locks: (Teicoplanin/Gentamicin)							
	• Red							
	• White							
	• Blue							
Hygiene	* Daily Wash							
	* Oral Hygiene (AM + PM)							
Bloods	* Blood (RCC)							
	* Platelets							
Nutrition	* Diet - PO/NG							
	* Fluids - PO/ I V Fluids							

Overall Package

- Well received
- Excellent – much needed resource
- Realise seriousness of this adverse event
- Need for prompt treatment

Hurdles

- Financial constraints
- Distance
- Organising meetings – duty roster

Conclusion and Future Directions

- Successful in developing education package
- Approved by Crumlin – National Tertiary Referral Centre
- Use in shared care centres
- Education sessions will continue to be carried out
- Maintaining & improving standards



*“Nursing makes an important impact
on the
outcome of care
through
interventions that help to
prevent, monitor and educate.
These interventions may
save the life
of patients with neutropenia”.*

(Marrs, 2006)

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