

Paediatric Infusion Treatments and Shared Care of Children/Adolescents in Seahorse Day Unit, Cork University Hospital

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Welcome to Seahorse Ward



Seahorse Day Unit, CUH

- 10 Bedded, 5 Day Children's Unit
- On average 200 day case patients a month.
- Included in these admissions are Infants, Children and Adolescents who require Infusion treatments as part of their on-going management of care of a Chronic Illness ,approx 15-20 per month.

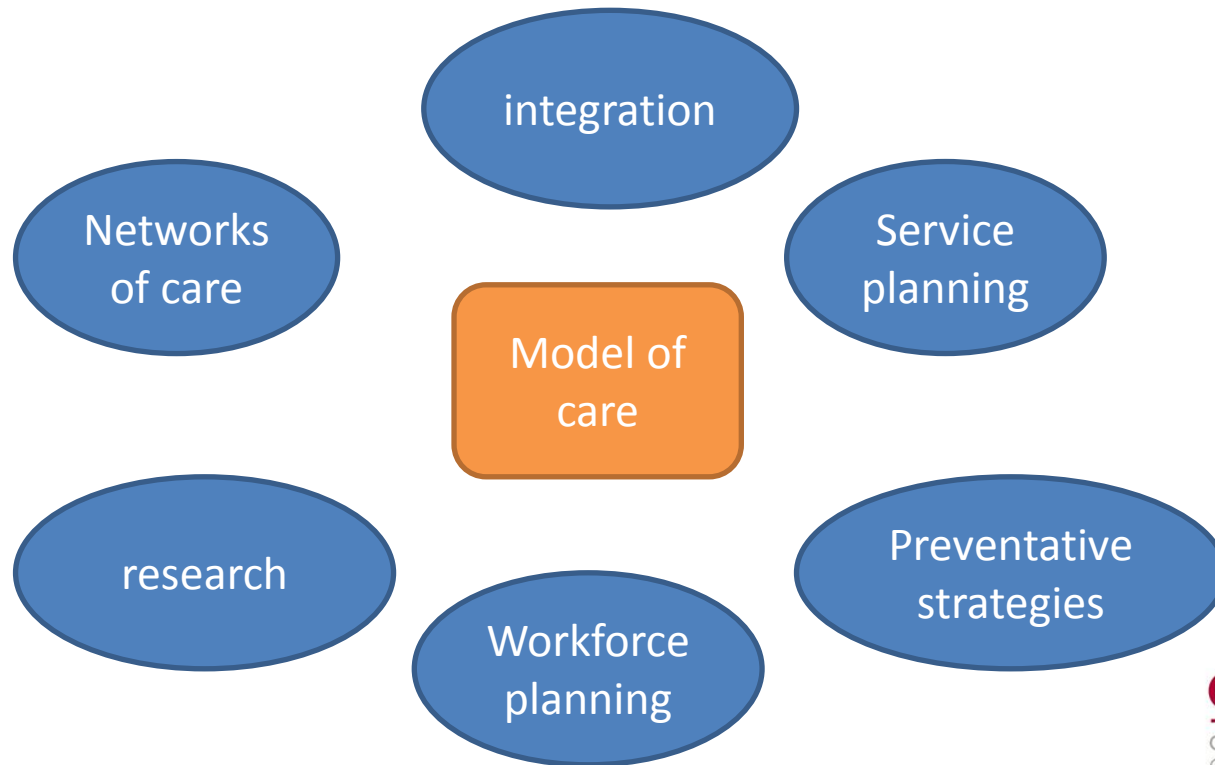
Paediatric Infusion Treatments and Shared Care

- As part of the National Model of Care for Paediatric Healthcare Services in Ireland (2015) Seahorse Staff aim to provide this Integrated model of care for Children/Adolescents and their families



National model of care for paediatric healthcare services

Model of Care Graph



National Model of Care for Paediatric Healthcare Services in Ireland (2015)

The Integrated model of Care as part of the National Model recommends that –

- Children are treated closer to home where possible
- Treated in ambulatory setting
- Tertiary centre to support integrated networks of tertiary, secondary and primary care
- Reducing the average length of stay in hospital.

National Model of Care for Paediatric Healthcare Services in Ireland (2015)

- Creating Interdisciplinary care approach
- Standardising care processes
- Use of information technology to facilitate diagnosis and treatment
- Communication between secondary and primary care providers.

National Model of Care for Paediatric Healthcare Services in Ireland (2015)

Benefits of the Shared Care Model:

- Agreed and standardised treatment of care provided for a family with a child diagnosed with a Chronic Illness
- Less admissions to Tertiary hospital in favour of Ambulatory = More Efficient for Service Delivery
- Means less time in hospital for child and family
- Reduce cost to family
- Less impact on the family with local care provided

Pathway

- Patient A, presents to paediatric clinic/ assessment unit with weight loss, frequent recurring diarrhoea, bleeding, fever, abdominal pain and cramping, fatigue and reduced appetite.
- Investigations, FBC to detect infection and anaemia, inflammation markers CRP, ESR, Faecal calprotectin.

Pathway

- Suspected inflammatory bowel disease, referral to paediatric gastroenterologist for colonoscopy.
- Diagnosed Crohns disease, treatment options explored. Infliximab infusion commenced following standard investigations.
- Once given in OLCHC without issues over a 6 month period transfer of care to local hospital for continuing infusions while maintaining opd appointments with specialist hospital.

Infusion day case

- First Appointment to attend co-ordinated initially through OLCHC/TEMPLE ST.
- Nursing admission, baseline obs, history etc. Infusion care plan.
- Medical admission
- Blood tests and insertion of cannula. fbc/u+e/lft's/crp +/- esr/Calcium. At least 3-5 days pre-infusion.
- Once blood results available and normal commence infusion.
- Standard guidelines either Cork University Hospital /OLCHC for administration.

- Pre-medication if applicable.
- Observations throughout infusion, temp/hr/bp/rr as per guideline.
- Length of infusion varies depending on type of infusion. From 1 hour to 4 hours with time awaiting blood results and one hour post infusion monitoring.
- Dosing and frequency of infusion is determined by weight and specialist.
- Follow-up appointment and infusion date.
- Regular communication by email between PCNS and day unit to ensure seamless and efficient service.

Types of Paediatric Infusion Treatments Administered in Seahorse Day Unit

Infliximab - a monoclonal antibody biologic drug.

- Autoimmune diseases such as Crohn's disease, ulcerative colitis, psoriatic arthritis, rheumatoid arthritis.
- OLVHC Guidelines are used to standardise treatment regarding administration.

Side effects ,

- Headache
- Stomach pain
- Nausea
- Stuffy nose
- Sinus pain
- Skin rash
- Flushing.

Types of Paediatric Infusion Treatments Administered in Seahorse Day Unit

Tocilizumab- is an immunosuppressive drug, a humanised monoclonal antibody.

- Rheumatoid arthritis, juvenile and systemic juvenile idiopathic arthritis.
- Symptoms should start to improve in 2-12 weeks.
- Length of infusion 1 hour, care pre infusion plus 1 hour post infusion, up to 3-4 hour stay.

Side effects,

- Cough, sore throat or runny nose
- Headaches or dizziness
- Mouth ulcers
- Conjunctivitis
- High blood pressure
- Weight gain or swollen ankles.
- Skin rashes
- Abdominal pain/cramping
- Inflammation around drip site.

Types of Paediatric Infusion Treatments Administered in Seahorse Day Unit

Cuvitru and Hyqvia immune globulin subcutaneous infusion.

- Used to treat primary immunodeficiency.
- Commencement and parent education is facilitated on the day unit
- 3 weekly doses prior to d/c.
- d/c to home with company nurse advisor support.
- Prior HSE cost approval.

IVIG - Kiovig, flebbogamma, human immunoglobulin

- Used to strengthen the body's natural defence system to lower the risk of infection in persons with a weakened immune system.
- Standard CUH administration guidelines.
- These infusions can be sporadic and IgG blood result dependent.

Types of Paediatric Infusion Treatments Administered in Seahorse Day Unit

Tysabri, a type of humanised monoclonal antibody.

- MS – used to treat relapsing forms of multiple sclerosis.
- Must be administered consistently once every 4 weeks.
- Infusion takes one hour and monitored for one hour post infusion.
- Follow UK/IRELAND guidelines for monitoring MS patients on Tysabri.

Side effects

- Multi focal leukoencephalopathy
- Itchy rash
- Face swelling, lips or tongue
- Urinary tract infection
- Sore throat
- Runny nose
- Headache
- Neck stiffness
- Weight loss

Co-ordinate MRI every 6 months

Types of Paediatric Infusion Treatments Administered in Seahorse Day Unit

- Iron- Venofer
- Iron Deficiency anaemia
- From various sources. 5-6 infusion treatment plan.

Types of Paediatric Infusion Treatments Administered in Seahorse Day Unit

Zolidronate/pamidronate, bisphosphonates a class of medication that prevents the loss of bone density .

- Osteogenesis imperfecta, osteoporosis, pagets disease.

- Frequency of infusion depends type.

Pamidronate over 2 days.

Length of stay 4-5 hours.

Zolidronate in one day .

- These patients require close monitoring and co-ordination of hospital appointments as attending local and specialty hospital regularly. Scans, orthopaedic appts, blood tests.

Our Team



Thank You!

Any Questions??