

Burns and Scalds – First Aid and Prevention The NHSGGC approach

Sharon Ramsay – Burns Nurse Specialist Gregor Walker – Consultant Paediatric Surgeon Lesley Nish – Health Improvement Senior

Presentation to Cross Party Group on Accident Prevention and Safety Awareness, 24/06/2014

Royal Hospital for Sick Children

•Burns Team

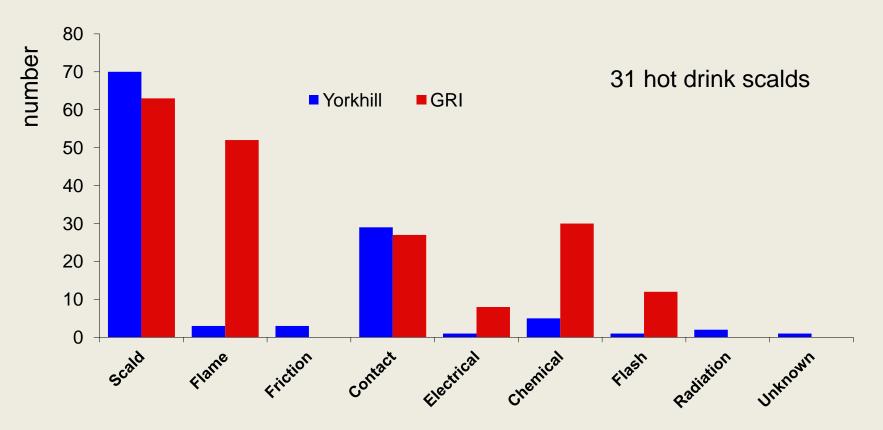
- -4 surgeons
- -Burns Nurse Specialist
- -Physiotherapists
- -Dietician/psychology
- Emergency Department
- •Burns Ward
 - -Cubicles
 - -Experienced nursing staff
- Dedicated theatre lists and out-patient clinics



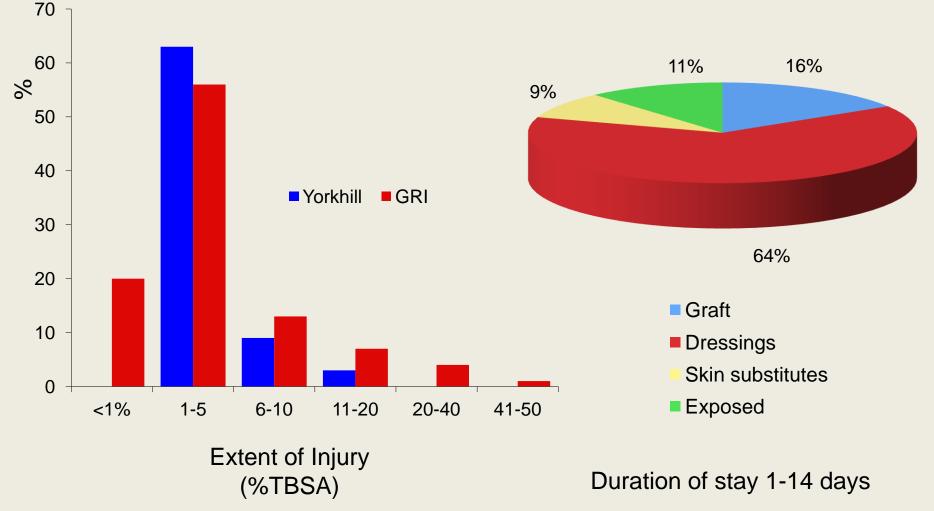
Activity Data 2012



- ~450 emergency attendances/year
- 115 admissions to ward (192 in GRI)







Burns - First Aid

- Remove from source
- Cool the wound
- Protective dressing/Analgesia
- EMSB Course
 - Cool *running* water for 20 mins
 - Between 8-25°C (Ideally 15°C)
 - Avoid ice
- Cooling is beneficial up to 1 hour post burn
 - Some evidence to suggest benefits up to 2 hours



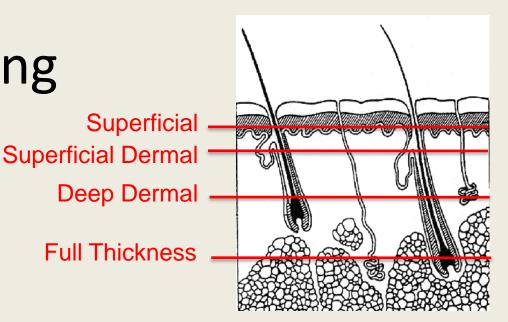


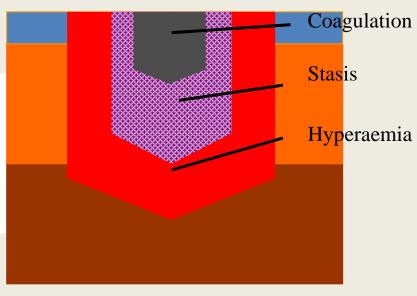
Benefits of Cooling

- Analgesia
- Reduce tissue temp
- Reduce oedema
- Improved healing

Depth of burn	Superficial partial thickness	Deep	Total	Percentage with deep burns
Immediate cooling with water	131	65	196	33
Not cooled with water	257	242	499	49

From Nguyen et al. Burns;28:173-6, 2002





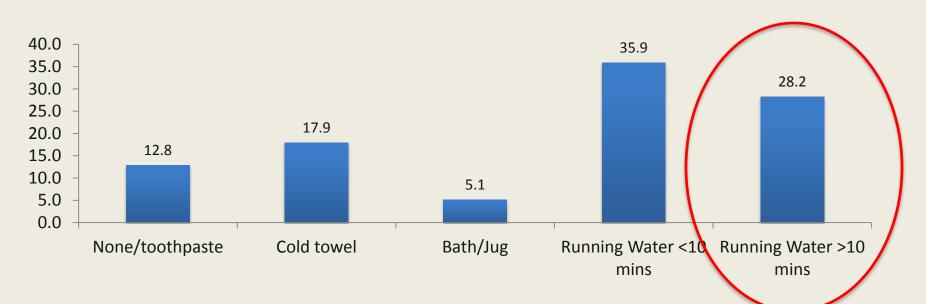
Public Awareness

- Intuitive
- First Aid Courses
- Minority cool effectively



Age	Total	Turn on cold tap (any duration)	Run cold water greater than 10 min
<20	5	4 (80%)	2 (40%)
20-30	36	25 (69%)	11(31%)
31-40	92	62 (67%)	28(30%)
>40	54	46 (85%)	25(46%)
Total	187 ^a	137 (73%)	66 (35%)

from Graham et al Burns;38:438-43, 2012



Background



- Multi partnership workshop to consider how bad the burns and scalds issue is in NHSGGC
- Engineering, Environmental, Enforcement, Education and Empowerment prevention options
- Short life working group set up to agree actions
- Consultation carried out with parents, carers and staff in NHSGGC
- Agreement on importance of first aid message and secondary prevention approach

STOP First Aid for burns and scalds



Strip hot clothes and jewellery if possible.





Turn on cold tap (never use ice). Run the burn under cool water for 10-20 minutes. Keep the rest of the person warm.



Organise medical assistance. Contact NHS 24 – dial 111, attend A&E or dial 999.



Protect burn with cling film or clean cloth (NO dressings, fluffy cloth, creams/lotions). Give painkillers

Keep your children away from these:

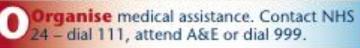




STOP First Aid for burns and scalds

Strip hot clothes and jewellery if possible.

Turn on cold tap (never use ice). Run the burn under cool water for 10-20 minutes. Keep the rest of the person warm.



Protect burn with cling film or clean cloth (NO dressings, fluffy cloth, creams/lotions). Give Painkillers.

Fridge Magnets

Posters

Actions



- Funding secured to purchase first aid fridge magnets
- 50,000 magnets to be distributed across NHSGGC
- Brief Intervention with every family
- Successful event with pharmacists
- Launch with case study 12th June, 2014
 - Extensive media coverage
 - Facebook and Twitter
 - RoSPA and NHSGGC websites

Distribution



- All families with babies at 10 day visit
- All children in Nursery Schools
- Local community venues focusing on ambulant toddlers
 - GP practices
 - Health improvement teams (6 regional teams)
 - Mothers & toddlers groups
 - Pre-5 centres/weaning centres
 - Go Safe Scotland
 - Soft play centres/Schools/swimming pools/sports centres



- Close the audit loop
- Follow-up assessment of pharmacy training
- Assess number of attendances/admissions
 Needs better data collection (attendances)
- Widen the message nationally
- Research on cold tap temperatures throughout year
- Undertake cost-benefit analysis
- Consider other primary prevention strategies