Polytrauma Instructional Course

Preliminary programme

Chairperson: Prof Peter Giannoudis (UK)

Expert Connect Centre, Croxley Park, United Kingdom
17 – 19 May 2017
Description
This new course discusses all important aspects of polytrauma and provides an update on current concepts and controversies in polytrauma management. Along with a patient example, the entire treatment pathway from initial admission through to rehabilitation will be discussed and the essential management principles will be identified. Topics include Damage Control Orthopedics vs Early Total Care, surgical resuscitation, transfer to ITU/risk management, prioritization of issues to be addressed, soft-tissue management, prevention of SSI and preventing and managing complications.

Short lectures, interactive case discussion sessions and practical workshops will help the delegate to improve their clinical skills and deal with complications in polytrauma patients more effectively. Hands-on workshops include application of (spanning) external fixators for DCO, wound debridement, fasciotomies, as well as IM nailing of the femur and tibia. The wet labs will provide the opportunity to refine the delegate’s application techniques.

The international faculty of experts will ensure a stimulating atmosphere for peer-to-peer exchange and learning at this course.

Prof Peter Giannoudis
Chairman
Leeds General Infirmary
Academic Department of Trauma and Orthopaedic Surgery
Leeds, United Kingdom

Invited Faculty
TBC

Learning objectives
- Discuss current concepts and controversies in polytrauma management
- Review essential management principles
- Apply DCO techniques
- Appreciate the role of NPWT in open tibial fractures and closed incisions after definitive fracture fixation

Participant profile
This course is targeted at trauma surgeons working in level 1 trauma centers and with several years of experience in the management of polytrauma patients with long-bone fractures.

Product and techniques
- Jet-X (for application of External Fixator to the pelvis in session 4 and for application of spanning external fixator femur-tibia in session 5)
- Trigen Meta-Nail Retrograde Femoral Nail (for retrograde femoral IM nailing workshop in session 10)
- Trigen Meta-Nail Tibial Nail (for tibial IM nailing workshop in session 10)
- Trigen SURESHOT
# Preliminary Programme

## Wednesday, 17 May

**Morning**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:45</td>
<td><em>Welcome – Objectives of course</em></td>
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### Session 1: Polytrauma – General considerations – Part A

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11:00 - 11:15</td>
<td>What’s new in rescue conditions: Better stay and play or scoop and run?</td>
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<tr>
<td>11:15 - 11:30</td>
<td>What’s new in resuscitation?</td>
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<tr>
<td>11:30 - 11:45</td>
<td>Early radiological imaging: What’s best and why?</td>
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<td>11:45 - 12:00</td>
<td>Discussion</td>
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### Session 2: Polytrauma – Treatment strategies

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>12:00 - 12:15</td>
<td>DCO why, when and how?</td>
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<td>12:15 - 12:30</td>
<td>ETC still a valid option? Has anything changed?</td>
</tr>
<tr>
<td>12:30 - 12:45</td>
<td>Clearance of the cervical spine: How and when</td>
</tr>
<tr>
<td>12:45 - 13:00</td>
<td>Discussion</td>
</tr>
<tr>
<td>13:00 - 13:45</td>
<td>Lunch</td>
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### Session 3: The start of George’s polytrauma journey

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>13:45 - 14:45</td>
<td>George’s accident- presentation-discussion</td>
</tr>
<tr>
<td>14:45 - 15:00</td>
<td>Soft tissue debridement, including medial access incision and identification of perforators</td>
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<tr>
<td>15:00 - 15:10</td>
<td>Bone debridement</td>
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<tr>
<td>15:10 - 15:20</td>
<td>NPWT as a temporary dressing for open fractures</td>
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</table>

### Practical Session 4: DCO surgical resuscitation / pelvis ex fix / packing

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>15:20 - 16:20</td>
<td>Application of external fixator pelvis and pelvic packing</td>
</tr>
<tr>
<td>16:20 - 16:30</td>
<td>Coffee break</td>
</tr>
</tbody>
</table>
### Practical Session 5: DCO management distal femur and midshaft tibia open fracture

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30 - 17:30</td>
<td>Application of spanning external fixator-pelvis-femur-tibia-wound debridement</td>
<td>M Pearse</td>
</tr>
<tr>
<td>17:30 - 17:40</td>
<td>Debridement of contaminated open tibial fracture via medial fasciotomy incision and identification of perforators</td>
<td>J Nanchahal</td>
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</tbody>
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### Session 6: ITU transfer – Risk management

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>17:40 - 18:30</td>
<td>Interactive session: What things can go wrong now and what instructions should be given</td>
</tr>
<tr>
<td>18:30 - 18:45</td>
<td>Summary and closure</td>
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<tr>
<td>18:45</td>
<td>Transfer to the hotel</td>
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<td></td>
<td>Free evening</td>
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### Thursday, 18 May

#### Morning

07:15  
*Individual breakfast at hotel*

07:15  
*Meet in the hotel lobby - group transfer to the centre*

### Session 6: George’s first day in ITU - Issues and concerns

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>08:15 - 08:45</td>
<td>Discussion of biochemical state, ventilation, issues, lactate levels, CK elevation, clearance of cervical spine outstanding-concern about compartment</td>
<td>J Nanchahal</td>
</tr>
<tr>
<td>08:45 - 09:00</td>
<td>Fasciotomies – how to do them</td>
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### Practical Session 7: Practical - Fasciotomies for tibial compartment

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:00 - 10:00</td>
<td>Fasciotomy superficial and deep posterior compartments via medical incision and anterior and peroneal compartment via lateral incision</td>
<td>J Nanchahal</td>
</tr>
<tr>
<td>10:00 - 10:15</td>
<td>Role of NPWT in closed incisions</td>
<td>J Nanchahal</td>
</tr>
<tr>
<td>10:15 - 10:30</td>
<td>Coffee break</td>
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### Session 8: George’s second day in ITU

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:30 - 10:45</td>
<td>SIRS: What’s new (treatment options)?</td>
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<tr>
<td>10:45 - 11:00</td>
<td>MODS: All I need to know?</td>
</tr>
</tbody>
</table>
11:00 - 11:15  Rib fixation: Should we have fixed the flair chest initially?  
B Ollivere

11:15 - 11:30  Discussion

Session 9: George’s third - fifth days in ITU

11:30 - 11:45  Overview of clinical condition-outstanding issues prioritization  
D Forward, P Bates

11:45 - 12:00  Fixation of pelvic ring injuries: An overview

12:00 - 12:15  Floating knee injuries: My preferred method or treatment

12:15 -12:30  Discussion

12:30 - 13:15  Lunch

Practical Session 10: Your fixation options: Tibial nailing and retrograde femoral nailing through the same approach or antegrade femoral nailing and tibial nailing

13:15 - 15:00  Antegrade nail the femur and tibia? Incorporating different treatment options  
M Pearse

Session 11: Day six: George’s unexpected complications

15:00 - 15:15  Presentation of the issues early in the morning of DAY six (white leg) arterial damage

15:15 - 15:30  Management of vascular injuries  
J Nanchahal

15:30 - 15:45  Principles of soft tissue reconstruction  
J Nanchahal

15:45 - 16:00  Discussion

16:00 - 16:15  Coffee break

Session 12: Day 7-14 - George’s journey

16:15 - 16:30  Thromboprophylaxis: What and for how long?

16:30 - 16:45  Rehabilitation: What protocol? Issues to be addressed?

16:45 - 17:00  Discussion

17:00 - 17:15  Summary and closure

17:15  Transfer to hotel

19:00  Course dinner
Friday, 19 May

Morning

Individual breakfast at hotel - check out

07:15

Meet in the hotel lobby / group transfer to the centre

08:15 - 08:30

How do I assess the issues surrounding long bone non-unions

P Giannoudis, B Ollivere, M Pearse

08:30 - 08:45

How I provide an osteogenic stimulus to non-unions?

Femoral non-unions: My preferred method of treatment

08:45 - 09:00

09:00 - 09:15

Discussion

Session 13: George’s 9 month follow up: Non-union femur, infected tibial non-union

Session 14: George’s infected tibial non-union: Still a problem

09:15 - 09:30

Treatment of bone defect with Ilizarov?

09:30 - 09:45

Treatment of bone defect with masquelet?

09:45 - 10:00

I prefer titanium cages

10:00 - 10:15

Discussion

10:15 - 10:30

Coffee break

Session 15: George’s infected tibial non-union: Still a problem

10:30 - 10:45

Persistent non-union of the docking site: What to do?

P Giannoudis, B Ollivere, M Pearse

10:45 - 11:00

Ongoing sepsis with the masquelet: Now what?

11:00 - 11:15

Failure of cage: Option of treatment?

11:15 - 11:30

Indications for amputation

M Pearse

11:30 – 11:45

How should this be done

11:45 - 12:00

Discussion

12:00 - 12:15

Summary and closure

12:15

Farewell lunch

Individual departures
Course venue
Smith & Nephew Expert Connect Centre
Croxley Park
Building 5, Hatters Lane
Watford, WD18 8YE

Hotel information
Crowne Plaza Gerrards Cross
Oxford Road
Buckinghamshire HP9 2XE
United Kingdom

Course Dinner
In-house the Crowne Plaza Gerrards Cross Hotel

Transfers
Transfers from the airport to the hotel and back according to the online registration system entries.

Organisation
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