**QUEH General Surgery SG41 FY1 F1 Resident**

Band 2B (Based on template only)

Steps through the banding flowchart:

 - New Deal Compliant

 - Average work above 48 hours a week

 - Work pattern is a full shift, partial shift or hybrid

 - Less than 1/3 of duty hours outside 7am to 7pm Mon-Fri (.290) and less than 1 weekend in 3 (1 in 3.07)

Riddell Formula Calculations

Prospective cover for: Duties outside normal hours.

Leave: F1 - 35 days/annum for 46 doctors = 1610 days/annum

Total leave to be covered for the group = 1610 days/annum

Between 46 doctors this is 35 days/annum each (7 wks/annum each)

The normal working week = 45:00 per week.

Number of hours in a leave week = 45 (the hours in the normal working week)

For every leave day in the pattern, 09:00 hours has been added to the duty and work hours

(This figure is a fifth of the hours in a leave week)

Riddell hours = (Wkly hrs\*52 - Hol Wks\*Hrs in leave wk)/(52-Hol wks)

Riddell duty hours = ( 2867.61\*52 - 7 \* 2700)/(52 - 7) = 2893.68 = 48:14

Riddell work hours = ( 2867.61\*52 - 7 \* 2700)/(52 - 7) = 2893.68 = 48:14

New Deal Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Actual | Target | Comments |
| Average weekly hours of duty | 48:14 | 56:00 |  |
| Average weekly hours of work | 48:14 | 56:00 |  |
| Longest duty period | 13:00 | 14:00 |  |
| Shortest off duty | 11:00 | 08:00 |  |
| Longest 'off duty' period | 363:00 | 62:00 |  |
| Next longest 'off duty' period | 363:00 | 48:00 |  |
| Maximum consecutive duty days |  7 | 13 |  |
| 62+48 hr. breaks every 28 days | OK |  |  |

European Working Time Directive Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Actual | Target | Comments |
| Average weekly hours of work | 47:01 | 48:00 | Calculated with A/L removed as per CEL 14 (2009) |
| Starting each Monday, a 35 hour continuous rest in 7 days or a 59 hour continuous rest in 14 days | OK |  |  |
| 11 hrs continuous rest in any 24 hour period | OK |  |  |

Template work pattern

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Wk | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
| 1 | Zero Hours | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 |  |  |
| 2 | B: Fl 11 Long Day08:00 20:30 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 |  |  |
| 3 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | B: Fl 11 Long Day08:00 20:30 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 |  |  |
| 4 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | B: Fl 11 Long Day08:00 20:30 | B: Fl 11 Long Day08:00 20:30 | B: Fl 11 Long Day08:00 20:30 |
| 5 | Zero Hours | B: Fl 11 Long Day08:00 20:30 | A: Fl 11 Day08:00 17:00 | B: Fl 11 Long Day08:00 20:30 | A: Fl 11 Day08:00 17:00 |  |  |
| 6 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 |  |  |
| 7 | C: Fl 11 Late14:00 20:30 | C: Fl 11 Late14:00 20:30 | C: Fl 11 Late14:00 20:30 | C: Fl 11 Late14:00 20:30 | C: Fl 11 Late14:00 20:30 | A: Fl 11 Day08:00 17:00 | A: Fl 11 Day08:00 17:00 |
| 8 | Leave | Leave | Leave | Leave | Leave |  |  |
| 9 | Leave | Leave | Leave | Leave | Leave |  |  |
| 10 | D: Fl 11 Night20:00 09:00 | D: Fl 11 Night20:00 09:00 | Zero Hours | Zero Hours | D: Fl 11 Night20:00 09:00 | D: Fl 11 Night20:00 09:00 | D: Fl 11 Night20:00 09:00 |
| 11 | Zero Hours | Zero Hours | D: Fl 11 Night20:00 09:00 | D: Fl 11 Night20:00 09:00 | Zero Hours |  |  |
| 12 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 |  |  |
| 13 | G: Rec Early08:00 18:00 | G: Rec Early08:00 18:00 | G: Rec Early08:00 18:00 | G: Rec Early08:00 18:00 | H: Rec IAU08:00 21:00 | H: Rec IAU08:00 21:00 | H: Rec IAU08:00 21:00 |
| 14 | Zero Hours | Zero Hours | Zero Hours | Zero Hours | I: Rec Late14:00 21:00 | I: Rec Late14:00 21:00 | I: Rec Late14:00 21:00 |
| 15 | J: Rec Night20:00 09:00 | J: Rec Night20:00 09:00 | J: Rec Night20:00 09:00 | J: Rec Night20:00 09:00 | Zero Hours |  |  |
| 16 | Zero Hours | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 |  |  |
| 17 | V: Fl 9 Long Day08:00 20:30 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 |  |  |
| 18 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | V: Fl 9 Long Day08:00 20:30 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 |  |  |
| 19 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | V: Fl 9 Long Day08:00 20:30 | V: Fl 9 Long Day08:00 20:30 | V: Fl 9 Long Day08:00 20:30 |
| 20 | Zero Hours | V: Fl 9 Long Day08:00 20:30 | U: Fl 9 Day08:00 17:00 | V: Fl 9 Long Day08:00 20:30 | U: Fl 9 Day08:00 17:00 |  |  |
| 21 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 |  |  |
| 22 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | U: Fl 9 Day08:00 17:00 | U: Fl 9 Day08:00 17:00 |
| 23 | Leave | Leave | Leave | Leave | Leave |  |  |
| 24 | X: Fl 9 Night20:00 09:00 | X: Fl 9 Night20:00 09:00 | Zero Hours | Zero Hours | X: Fl 9 Night20:00 09:00 | X: Fl 9 Night20:00 09:00 | X: Fl 9 Night20:00 09:00 |
| 25 | Zero Hours | Zero Hours | X: Fl 9 Night20:00 09:00 | X: Fl 9 Night20:00 09:00 | Zero Hours |  |  |
| 26 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 | F: Preadm GGH09:00 16:00 |  |  |
| 27 | M: GGH Day08:00 17:00 | K: GGH Long Day08:00 20:30 | M: GGH Day08:00 17:00 | K: GGH Long Day08:00 20:30 | M: GGH Day08:00 17:00 |  |  |
| 28 | K: GGH Long Day08:00 20:30 | M: GGH Day08:00 17:00 | K: GGH Long Day08:00 20:30 | M: GGH Day08:00 17:00 | K: GGH Long Day08:00 20:30 | K: GGH Long Day08:00 20:30 | K: GGH Long Day08:00 20:30 |
| 29 | Zero Hours | Zero Hours | Zero Hours | Zero Hours | G: Rec Early08:00 18:00 | G: Rec Early08:00 18:00 | G: Rec Early08:00 18:00 |
| 30 | H: Rec IAU08:00 21:00 | H: Rec IAU08:00 21:00 | H: Rec IAU08:00 21:00 | H: Rec IAU08:00 21:00 | Zero Hours |  |  |
| 31 | I: Rec Late14:00 21:00 | I: Rec Late14:00 21:00 | I: Rec Late14:00 21:00 | I: Rec Late14:00 21:00 | J: Rec Night20:00 09:00 | J: Rec Night20:00 09:00 | J: Rec Night20:00 09:00 |
| 32 | Zero Hours | Zero Hours | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 |  |  |
| 33 | E: Fl 10 Long day08:00 20:30 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 |  |  |
| 34 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | E: Fl 10 Long day08:00 20:30 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 |  |  |
| 35 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | E: Fl 10 Long day08:00 20:30 | E: Fl 10 Long day08:00 20:30 | E: Fl 10 Long day08:00 20:30 |
| 36 | Zero Hours | E: Fl 10 Long day08:00 20:30 | Q: Fl 10 Day08:00 17:00 | E: Fl 10 Long day08:00 20:30 | Q: Fl 10 Day08:00 17:00 |  |  |
| 37 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 |  |  |
| 38 | Zero Hours | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 |  |  |
| 39 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | R: Fl 10 Late14:00 20:30 | Q: Fl 10 Day08:00 17:00 | Q: Fl 10 Day08:00 17:00 |
| 40 | Leave | Leave | Leave | Leave | Leave |  |  |
| 41 | Leave | Leave | Leave | Leave | Leave |  |  |
| 42 | T: Fl 10 Night20:00 09:00 | T: Fl 10 Night20:00 09:00 | Zero Hours | Zero Hours | T: Fl 10 Night20:00 09:00 | T: Fl 10 Night20:00 09:00 | T: Fl 10 Night20:00 09:00 |
| 43 | Zero Hours | Zero Hours | T: Fl 10 Night20:00 09:00 | T: Fl 10 Night20:00 09:00 | Zero Hours |  |  |
| 44 | Z: Preadm VIC09:00 16:00 | Z: Preadm VIC09:00 16:00 | Z: Preadm VIC09:00 16:00 | Z: Preadm VIC09:00 16:00 | Z: Preadm VIC09:00 16:00 |  |  |
| 45 | O: HDU Late13:00 20:30 | O: HDU Late13:00 20:30 | O: HDU Late13:00 20:30 | O: HDU Late13:00 20:30 | N: HDU Early08:00 15:30 |  |  |
| 46 | N: HDU Early08:00 15:30 | N: HDU Early08:00 15:30 | N: HDU Early08:00 15:30 | N: HDU Early08:00 15:30 | O: HDU Late13:00 20:30 | P: HDU Long Day08:00 20:30 | P: HDU Long Day08:00 20:30 |

Template normal working days

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Normal Week | Start | End | Rest | Hours | Num of Diary Cards | Ave Start | Ave End | Ave Rest | Ave Hours |
| Mon | 08:00 | 17:00 | 00:00 | 09:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Tue | 08:00 | 17:00 | 00:00 | 09:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Wed | 08:00 | 17:00 | 00:00 | 09:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Thu | 08:00 | 17:00 | 00:00 | 09:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Fri | 08:00 | 17:00 | 00:00 | 09:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |

Template on call duties

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Intensity | Resident | Start | End | Rest | Hours | Num of Diary Cards | Ave Start | Ave End | Ave Rest | Ave Hours |
| A: Fl 11 Day | Full Shift | Yes | 08:00 | 17:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| B: Fl 11 Long Day | Full Shift | Yes | 08:00 | 20:30 | 00:00 | 12:30 | 0 |  |  |  |  |
| C: Fl 11 Late | Full Shift | Yes | 14:00 | 20:30 | 00:00 | 06:30 | 0 |  |  |  |  |
| D: Fl 11 Night | Full Shift | Yes | 20:00 | 09:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| E: Fl 10 Long day | Full Shift | Yes | 08:00 | 20:30 | 00:00 | 12:30 | 0 |  |  |  |  |
| F: Preadm GGH | Full Shift | Yes | 09:00 | 16:00 | 00:00 | 07:00 | 0 |  |  |  |  |
| G: Rec Early | Full Shift | Yes | 08:00 | 18:00 | 00:00 | 10:00 | 0 |  |  |  |  |
| H: Rec IAU | Full Shift | Yes | 08:00 | 21:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| I: Rec Late | Full Shift | Yes | 14:00 | 21:00 | 00:00 | 07:00 | 0 |  |  |  |  |
| J: Rec Night | Full Shift | Yes | 20:00 | 09:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| K: GGH Long Day | Full Shift | Yes | 08:00 | 20:30 | 00:00 | 12:30 | 0 |  |  |  |  |
| M: GGH Day | Full Shift | Yes | 08:00 | 17:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| N: HDU Early | Full Shift | Yes | 08:00 | 15:30 | 00:00 | 07:30 | 0 |  |  |  |  |
| O: HDU Late | Full Shift | Yes | 13:00 | 20:30 | 00:00 | 07:30 | 0 |  |  |  |  |
| P: HDU Long Day | Full Shift | Yes | 08:00 | 20:30 | 00:00 | 12:30 | 0 |  |  |  |  |
| Q: Fl 10 Day | Full Shift | Yes | 08:00 | 17:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| R: Fl 10 Late | Full Shift | Yes | 14:00 | 20:30 | 00:00 | 06:30 | 0 |  |  |  |  |
| T: Fl 10 Night | Full Shift | Yes | 20:00 | 09:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| U: Fl 9 Day | Full Shift | Yes | 08:00 | 17:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| V: Fl 9 Long Day | Full Shift | Yes | 08:00 | 20:30 | 00:00 | 12:30 | 0 |  |  |  |  |
| W: Fl 9 Late | Full Shift | Yes | 14:00 | 20:30 | 00:00 | 06:30 | 0 |  |  |  |  |
| X: Fl 9 Night | Full Shift | Yes | 20:00 | 09:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| Y: Preadm SGH | Full Shift | Yes | 09:00 | 16:00 | 00:00 | 07:00 | 0 |  |  |  |  |
| Z: Preadm VIC | Full Shift | Yes | 09:00 | 16:00 | 00:00 | 07:00 | 0 |  |  |  |  |

**New Deal / WTR Footnote**

This Full Shift rota has been checked and complies with the limits of the New Deal Contract for Training Grade Doctors.

On-going compliance relies on start and finish times being adhered to, natural breaks being achieved as per HDL 2003\_10 and all other New Deal limits being met.

This rota also complies with the limits of the Working Time Regulations, including the 48 hour working week.

Riddell is included for all leave.

Daniel MacDonald

**Programme Director**

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**16th July 2015.**