Glasgow Health Board, RAH, General Surgery, Rota SA68 13dr over 18wks 7 day Opt4 22.7.15, F1, Resident. No monitoring.

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

 - 1 weekend in 3 or more frequent (1 in 2.57)

**COMMENTS**

This rota represents 1doctor working surgical cover on a 1 in 13 basis over 18 weeks.

**HAN nights calculation:**

* Medicine: 17drs
* Surgery: 13drs
* Ortho: 2drs TOTAL 32drs working nights.
* 7nights / 32 = 0.21 nights per doctor per week x 18 weeks = 3.78. Therefore each doctor would work 4 nights over 18 weeks.

In 18 weeks 126 nights need covered. Surgery + Ortho would work 47% = 59 nights & Medicine would work 53% = 67 nights.

**Weekend calculation**

* Nights are 1 weekend in 32 weeks = 18/32 = 0.56%
* 2nd on is 1 weekend in 13 weeks (18weeks divided by 13 weeks = 1.38%)
* Wd 24 is 1 weekend in 13 weeks (18weeks divided by 13 weeks = 1.38%)
* A&E Friday is 1 in 13 weeks (18weeks divided by 13 weeks = 1.38%)
* HAW – 36 weekend days covered by 32 = 1.125%

--------------------

4 x HAN nights over 18 weeks - **1:0.56 weekends**

2nd on is 5 days Mon-Fri (1100 – 2130) over 13 weeks = 7 days Mon-Fri over 18 weeks + 1.38 Weekends (Weekends are represented in template rota by 3 shifts (1.5) 0900-2130 Sat + Sun) = This is an overestimate of 0.12 = 0.12x37.5hrs/1.5 = 3 hours or rounded to 10 mins per week to be deducted **– 1:1.38 weekends**

Wd24 is 5 days Mon-Fri (0800-1800) over 13 weeks = 7 days Mon-Fri over 18 weeks + 1.38 Weekends which is represented in template rota by 3 shifts (1.5) (0800 - 2130) = overestimate of 0.12% = 0.12x39hrs/1.5 = 3.12 hours or 10 mins per week to be deducted **– 1:1.38 weekends**

A&E is 5 days Mon-Fri over 13 weeks = 7 days Mon-Fri (1230 - 2300) over 18 weeks **– 1:3.8 weekends**

---------------------------------

* HAN – O.56
* 2nd on – 1.38
* Wd 24 – 1.38
* HAW – 1.125
* A&E – 1.38

= 5.825/18 weeks = 1:3.2 = **1:3.2 weekends = Band 2B**

**This rota is both New Deal & EWT compliant.**

Riddell Formula Calculations

Prospective cover for: Duties outside normal hours.

Leave: F1 - 35 days/annum for 13 doctors = 455 days/annum

Total leave to be covered for the group = 455 days/annum

Between 13 doctors this is 35 days/annum each (7 wks/annum each)

The normal working week = 40:00 per week.

Number of hours in a leave week = 40 (the hours in the normal working week)

For every leave day in the pattern, 08:00 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 = ( 2845\*52 - 7 \* 2400)/(52 - 7) = 2914.22 = 48:34

Riddell work hours = ( 2845\*52 - 7 \* 2400)/(52 - 7) = 2914.22 = 48:34

New Deal Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Actual | Target | Comments |
| Average weekly hours of duty | 48:34 | 56:00 | **Less 20min/wk adjustment = 48:14** |
| Average weekly hours of work | 48:34 | 56:00 | **Less 20min/wk adjustment = 48:14** |
| Longest duty period | 13:00 | 14:00 |  |
| Shortest off duty | 11:00 | 08:00 |  |
| Longest 'off duty' period | 68:30 | 62:00 |  |
| Next longest 'off duty' period | 68:00 | 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 | 46:24 | 48:00 | As per CEL14 (2009) calculation = 46:24 |
| Average hours (before adjustments) | 47:25 |  | **Less 20min/wk adjustment = 47:05** |
| 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 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | D: HAN Night21:00 09:00 | D: HAN Night21:00 09:00 | D: HAN Night21:00 09:00 | D: HAN Night21:00 09:00 |
| 2 | Zero Hours | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 3 | A: A&E Wd2412:30 23:00 | A: A&E Wd2412:30 23:00 | A: A&E Wd2412:30 23:00 | A: A&E Wd2412:30 23:00 | A: A&E Wd2412:30 23:00 |  |  |
| 4 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 |  |  |
| 5 | C: 2nd On LD11:00 21:30 | C: 2nd On LD11:00 21:30 | C: 2nd On LD11:00 21:30 | C: 2nd On LD11:00 21:30 | C: 2nd On LD11:00 21:30 | F: WE LD09:00 21:30 | F: WE LD09:00 21:30 |
| 6 | Zero Hours | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 7 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 | E: Annual Leave08:00 16:00 |  |  |
| 8 | G: Day 208:00 18:00 | G: Day 208:00 18:00 | G: Day 208:00 18:00 | G: Day 208:00 18:00 | G: Day 208:00 18:00 | H: Day 2 Wkend08:00 21:00 | H: Day 2 Wkend08:00 21:00 |
| 9 | Zero Hours | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 10 | V: VOL08:00 16:00 | V: VOL08:00 16:00 | V: VOL08:00 16:00 | V: VOL08:00 16:00 | B: Half Day08:00 12:00 |  |  |
| 11 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 12 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | J: HAW Day09:00 21:00 |  |
| 13 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 14 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 15 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | C: 2nd On LD11:00 21:30 | C: 2nd On LD11:00 21:30 | F: WE LD09:00 21:30 |  |
| 16 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |
| 17 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | G: Day 208:00 18:00 | G: Day 208:00 18:00 | G: Day 208:00 18:00 |  |
| 18 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 | Stnd Day08:00 16:00 |  |  |

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 | 16:00 | 00:00 | 08:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Tue | 08:00 | 16:00 | 00:00 | 08:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Wed | 08:00 | 16:00 | 00:00 | 08:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Thu | 08:00 | 16:00 | 00:00 | 08:00 | 0 | 00:00 | 00:00 | 00:00 | 00:00 |
| Fri | 08:00 | 16:00 | 00:00 | 08:00 | 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: A&E Wd24 | Full Shift | Yes | 12:30 | 23:00 | 00:00 | 10:30 | 0 |  |  |  |  |
| B: Half Day | Full Shift | Yes | 08:00 | 12:00 | 00:00 | 04:00 | 0 |  |  |  |  |
| C: 2nd On LD | Full Shift | Yes | 11:00 | 21:30 | 00:00 | 10:30 | 0 |  |  |  |  |
| D: HAN Night | Full Shift | Yes | 21:00 | 09:00 | 00:00 | 12:00 | 0 |  |  |  |  |
| E: Annual Leave | Full Shift | Yes | 08:00 | 16:00 | 00:00 | 08:00 | 0 |  |  |  |  |
| F: WE LD | Full Shift | Yes | 09:00 | 21:30 | 00:00 | 12:30 | 0 |  |  |  |  |
| G: Day 2 | Full Shift | Yes | 08:00 | 18:00 | 00:00 | 10:00 | 0 |  |  |  |  |
| H: Day 2 Wkend | Full Shift | Yes | 08:00 | 21:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| J: HAW Day | Full Shift | Yes | 09:00 | 21:00 | 00:00 | 12:00 | 0 |  |  |  |  |
| V: VOL | Full Shift | Yes | 08:00 | 16:00 | 00:00 | 08:00 | 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**

**Tel: 07818012167**

**Email:** **daniel.macdonald@scotland.gsi.gov.uk**

**1st September 2015.**