**SG44**

QEUH, General Surgery, SG44 Seniors Option 220715, STR, Non 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

 - Less than 1/3 of duty hours outside 7am to 7pm Mon-Fri (.275) and less than 1 weekend in 3 (1 in 3.47)

Note: The band of a rota may change if monitored hours of work are different to those suggested by the theoretical work pattern. It is particularly important to remember this if a theoretical work pattern is close to the limits of a particular payband. Differences between calculated prospective cover and actual work done by doctors to cover absent colleagues can also cause a variance between theoretical and monitored bands.

Riddell Formula Calculations

Prospective cover for: Duties outside normal hours.

Leave: STR - 70 days/annum for 18 doctors = 1260 days/annum

Total leave to be covered for the group = 1260 days/annum

Between 18 doctors this is 70 days/annum each (14 wks/annum each)

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 = ( 3114.81\*52 - 14 \* 2700)/(52 - 14) = 3267.63 = 54:28

Riddell work hours = ( 2893.27\*52 - 14 \* 2700)/(52 - 14) = 2964.47 = 49:24

New Deal Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Actual | Target | Comments |
| Average weekly hours of duty | 54:28 | 62:13 |  |
| Average weekly hours of work | 49:24 | 56:00 |  |
| Longest weekend on call duty | 48:00 | 56:00 |  |
| Longest duty (Full Shift) | 13:00 | 14:00 |  |
| Longest weekday on call duty | 32:00 | 32:00 |  |
| Short off duty (after on call) | 15:00 | 12:00 |  |
| Short off duty (after others) | 10:00 | 08:00 |  |
| Longest 'off duty' period | 112:00 | 62:00 |  |
| Next longest 'off duty' period | 112:00 | 48:00 |  |
| Maximum consecutive duty days |  7 | 13 |  |
| 62+48 hr. breaks every 28 days | OK |  |  |
| Ave tot rest wkday (On Call) | 08:00 | 08:00 | (50% of out of hours duty) |
| Ave tot rest wkend (On Call) | 12:00 | 12:00 | (50% of out of hours duty) |
| % of duties with adequate rest |  100 | 75 |  |

European Working Time Directive Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Actual | Target | Comments |
| Average weekly hours of work | 46:35 | 48:00 | Calculated with AL removed as per CEL14 (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 | Warning  |  | Thu of week 4 does not have an 11 hour continuous break. The longest continuous break is 10:00. A total of 15 days have inadequate continuous rest. Compensatory rest will be required. Fri of week 41 did not pass 11hr rule but had adequate compensatory rest. A total of 3 days failed but had adequate compensatory rest. |

Availability of normal days (Based on template only)

In a 52 week period, doctors are available during normal hours on 173 days

This reduces to 113 assuming that 60 of these days will be taken as leave

This is equivalent to 2.17 days per week.

See the paper "The European Working Time Directive 2009" by Yasmin Ahmed-Little and Matthew Bluck in "The British Journal of Health Care Management" 2006, Vol. 12, No. 12 for details of the calculation and its implications.

Template work pattern

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Wk | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
| 1 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 |
| 2 | Zero Hours | Zero Hours | Zero Hours | C: Long Day08:00 21:00 | Stnd Day08:00 17:00 |  |  |
| 3 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | Zero Hours | Zero Hours |  |  |
| 4 | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 |
| 5 | Zero Hours | Zero Hours | Zero Hours | Zero Hours | J: W/E Long Day08:00 21:00 | J: W/E Long Day08:00 21:00 | J: W/E Long Day08:00 21:00 |
| 6 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | Zero Hours |  |  |
| 7 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 |
| 8 | Zero Hours | Zero Hours | Zero Hours | C: Long Day08:00 21:00 | Stnd Day08:00 17:00 |  |  |
| 9 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | Zero Hours | Zero Hours |  |  |
| 10 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 |  |  |
| 11 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 12 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | G: WE On Call09:00 09:00 | G: WE On Call09:00 09:00 |
| 13 | Zero Hours | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 14 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 15 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 16 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 |  |  |
| 17 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 18 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | G: WE On Call09:00 09:00 | G: WE On Call09:00 09:00 |
| 19 | Zero Hours | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 20 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 21 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 22 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 |  |  |
| 23 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 24 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | G: WE On Call09:00 09:00 | G: WE On Call09:00 09:00 |
| 25 | Zero Hours | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 26 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 27 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 28 | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 |
| 29 | Zero Hours | Zero Hours | Zero Hours | Zero Hours | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 |
| 30 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | Zero Hours |  |  |
| 31 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 |
| 32 | Zero Hours | Zero Hours | Zero Hours | C: Long Day08:00 21:00 | Stnd Day08:00 17:00 |  |  |
| 33 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | Zero Hours | Zero Hours |  |  |
| 34 | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 | B: Back13:00 22:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 | C: Long Day08:00 21:00 |
| 35 | Zero Hours | Zero Hours | Zero Hours | Zero Hours | J: W/E Long Day08:00 21:00 | J: W/E Long Day08:00 21:00 | J: W/E Long Day08:00 21:00 |
| 36 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | D: Night20:30 09:00 | Zero Hours |  |  |
| 37 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 38 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 39 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 |  |  |
| 40 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 41 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 |  |  |
| 42 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 43 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 44 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 45 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 |  |  |
| 46 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 47 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 |  |  |
| 48 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 49 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 50 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 |  |  |
| 51 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 | H: Post OC09:00 13:00 | Stnd Day08:00 17:00 |  |  |
| 52 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | Stnd Day08:00 17:00 | F: On Call09:00 09:00 |  |  |

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 | 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: Tower | Full Shift | Yes | 08:00 | 17:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| B: Back | Full Shift | Yes | 13:00 | 22:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| C: Long Day | Full Shift | Yes | 08:00 | 21:00 | 00:00 | 13:00 | 0 |  |  |  |  |
| D: Night | Full Shift | Yes | 20:30 | 09:00 | 00:00 | 12:30 | 0 |  |  |  |  |
| E: Ward | Full Shift | Yes | 08:00 | 13:00 | 00:00 | 05:00 | 0 |  |  |  |  |
| F: On Call | On Call | No | 09:00 | 09:00 | 08:00 | 24:00 | 0 |  |  |  |  |
| G: WE On Call | On Call | No | 09:00 | 09:00 | 12:00 | 24:00 | 0 |  |  |  |  |
| H: Post OC | Full Shift | Yes | 09:00 | 13:00 | 00:00 | 04:00 | 0 |  |  |  |  |
| I: W/E Day | Full Shift | Yes | 08:00 | 17:00 | 00:00 | 09:00 | 0 |  |  |  |  |
| J: W/E Long Day | Full Shift | Yes | 08:00 | 21:00 | 00:00 | 13:00 | 0 |  |  |  |  |