

別添資料

以下、本統括・分担研究報告書全体に係る別添資料を示す。
順に、以下の構成となっている。

- Iris 用入力データ生成プログラムソース（主要な部分抜粋）
 - メインプログラム (parse.pl)
 - 処理用ライブラリソース
 - ◇ GKAI::Coding.pm
 - ◇ GKAI::Kikan.pm
 - ◇ GKAI::Util.pm
 - Iris 入力データ作成用 日本独自 ICD コード変換ルール
 - Iris 入力データ作成用 期間表現正規化ルール

- 機械学習による原死因変更有無予測結果（一部抜粋）

```

1 #! /usr/bin/env perl
2
3 #=====
4 #==                                     ==#
5 #==          [ parse.pl ]              ==#
6 #==                                     ==#
7 #==                                     ==#
8 #=====
9
10 use warnings;
11 use v5.28;
12
13 use utf8;
14 use Encode;
15 use FindBin;
16 use lib "$FindBin::Bin/lib";
17 use GKAI::Util;
18 use GKAI::Coding;
19 use GKAI::Kikan;
20
21 binmode STDIN, ":utf8";
22 binmode STDOUT, ":utf8";
23
24 if ( $ARGV{HELP} ) {
25     &printHelp();
26 }
27
28 #== 初期設定 =====
29 my $switch = ""; # スイッチ
30 my $kikanrule = decode_utf8($FindBin::Bin) . '/rules/期間なおし_ver2.csv';
31 my $tikanrule = decode_utf8($FindBin::Bin) . '/rules/Iris用ICD変換.csv';
32 my $sdm = decode_utf8($FindBin::Bin) . '/rules/504-han-withICD.txt';
33 my $unicode = decode_utf8($FindBin::Bin) . '/rules/未code化傷病名用リスト.txt';
34 my $normalizekanji = decode_utf8($FindBin::Bin) . '/rules/記載変換ルール.txt';
35 my $dup = {};
36 my $gu = new GKAI::Util();
37 my $gc = new GKAI::Coding('SDM' => $sdm, 'ICDtikan' => $tikanrule, 'UNICODE' =>
38     $unicode, 'ICDtikan2' => $normalizekanji);
39 my $gk = new GKAI::Kikan('kikanRule' => $kikanrule);
40
41 #== 処理本体 =====
42
43 #== ALL
44 open IDENTALL, ">:utf8", "ALL/Ident.txt";
45 open MEDCODALL, ">:utf8", "ALL/MedCod.txt";
46
47 #== 5分割
48 open my $OUTI1, ">:utf8", "5分割/Ident1.txt";
49 open my $OUTI2, ">:utf8", "5分割/Ident2.txt";
50 open my $OUTI3, ">:utf8", "5分割/Ident3.txt";
51 open my $OUTI4, ">:utf8", "5分割/Ident4.txt";
52 open my $OUTI5, ">:utf8", "5分割/Ident5.txt";
53
54 open my $OUTM1, ">:utf8", "5分割/MedCod1.txt";
55 open my $OUTM2, ">:utf8", "5分割/MedCod2.txt";
56 open my $OUTM3, ">:utf8", "5分割/MedCod3.txt";
57 open my $OUTM4, ">:utf8", "5分割/MedCod4.txt";
58 open my $OUTM5, ">:utf8", "5分割/MedCod5.txt";
59
60 #== テスト用 (10件ごと抽出)
61 open TESTI, ">:utf8", "Test/Ident.txt";
62 open TESTM, ">:utf8", "Test/MedCod.txt";
63
64 #== テスト用 (500件ごと抽出)
65 open TESTIS, ">:utf8", "Test2/Ident.txt";
66 open TESTMS, ">:utf8", "Test2/MedCod.txt";
67
68 #== IRIS にかけたリスト
69 open IRIS, ">:utf8", "ALL/ForIris.txt";
70 open IRIS5, ">:utf8", "5分割/ForIris.txt";
71 open IRIST, ">:utf8", "Test/ForIris.txt"; # テスト用
72 open IRISTS, ">:utf8", "Test2/ForIris.txt"; # テスト用
73
74 #== 期間のパターン
75 open KIKAN, ">:utf8", "期間表現/Kikan_match_all.txt";
76
77 open IN, "<:utf8", "../01_NewShiboJoin/new_shibo_join.tsv";
78 my $c = 0;
79 my $c2 = 0;
80 while (my $str = <IN>) {
81     $c ++;
82     $c2 ++;
83 }

```

```

83 my $o1 = $OUT11;
84 my $o2 = $OUTM1;
85 if ($c <= 1000000){ $o1 = $OUTI1; $o2 = $OUTM1 }
86 elsif ($c <= 2000000){ $o1 = $OUTI2; $o2 = $OUTM2}
87 elsif ($c <= 3000000){ $o1 = $OUTI3; $o2 = $OUTM3}
88 elsif ($c <= 4000000){ $o1 = $OUTI4; $o2 = $OUTM4}
89 elsif ($c <= 5500000){ $o1 = $OUTI5; $o2 = $OUTM5}
90
91 if ($c != 0 ) {
92     my @a = split(/\t/, $str);
93
94     # 病名は 10,12,14,16,18
95     my $d = $gc->ICDCoding($a[10], $a[12], $a[14], $a[16], $a[18]);
96
97     # 期間は 11,13,15,17,19
98     my @kikan = ();
99     my $k1 = $gk->getKikan($a[11]);
100    my $k2 = $gk->getKikan($a[13]);
101    my $k3 = $gk->getKikan($a[15]);
102    my $k4 = $gk->getKikan($a[17]);
103    my $k5 = $gk->getKikan($a[19]);
104    @kikan = ($k1, $k2, $k3, $k4, $k5);
105
106    #-- 期間のDEBUG用 -----
107    my $dk1 = $gk->debug($a[11]);
108    my $dk2 = $gk->debug($a[13]);
109    my $dk3 = $gk->debug($a[15]);
110    my $dk4 = $gk->debug($a[17]);
111    my $dk5 = $gk->debug($a[19]);
112    if ($dk1 ne '') {say KIKAN $dk1}
113    if ($dk2 ne '') {say KIKAN $dk2}
114    if ($dk3 ne '') {say KIKAN $dk3}
115    if ($dk4 ne '') {say KIKAN $dk4}
116    if ($dk5 ne '') {say KIKAN $dk5}
117
118    # 全てにICDコードが当たった
119    if ($d->{HIT}){
120
121        my $key = $gu->keta($a[0]);
122
123        # Identテーブル
124        my @identArr = ();
125        for (my $i = 0; $i < 44; $i++){ $identArr[$i] = '' };
126        $identArr[0] = $key;
127        $identArr[2] = $gu->ynd($a[47]); # DateBirth (birth_ynd)
128        $identArr[3] = $gu->ynd($a[50]); # DateDeath (death_ynd)
129        $identArr[5] = $a[45]; # Sex (sex)
130        $identArr[6] = '0'; # MannerOfDeath ('0')
131        $identArr[9] = 'Initial'; # Status ('Initial')
132        $identArr[10] = 'No'; # Reject ('No')
133        $identArr[11] = 'Automatic'; # Coding ('Automatic')
134        my $identRes = join("\t", @identArr);
135
136        # ALL
137        print IDENTALL "$identRes\r\n";
138        # 5分割
139        print $o1 "$identRes\r\n";
140        # テスト
141        if ($c % 10 == 0){ print TESTI "$identRes\r\n" }
142        if ($c % 500 == 0){ print TESTIS "$identRes\r\n" }
143
144        # MedCodテーブル
145        for (my $i = 0; $i <= 4; $i++){
146            my @medcodArr = ();
147            for (my $j = 0; $j < 7; $j++){ $medcodArr[$j] = '' };
148            if($d->{DIS}[$i] ne ''){
149                my $icd = $d->{DIS}[$i];
150                # 期間がある場合付け加える。
151                if ($kikan[$i] ne '' and $kikan[$i] ne 'N/A'){ $icd .= '('
152                . $kikan[$i] . ' )' }
153                #----
154                my $medcodnum = 0;
155                if ($i <= 3) { $medcodnum = $i }
156                else { $medcodnum = 5 }
157                #----
158                $medcodArr[0] = $key;
159                $medcodArr[1] = $medcodnum;
160                $medcodArr[2] = '';
161                $medcodArr[3] = $icd;
162                $medcodArr[4] = '';
163                $medcodArr[5] = 1;
164                $medcodArr[6] = 1;
165                my $medcodRes = join("\t" , @medcodArr);

```

```

166         # ALL
167         print MEDCODALL "$medcodRes\r\n";
168         # 5分割
169         print $o2 "$medcodRes\r\n";
170         # テスト
171         if ($c % 10 == 0){ print TESTM "$medcodRes\r\n" }
172         if ($c % 500 == 0){ print TESTMS "$medcodRes\r\n" }
173     }
174 }
175
176 #== ForIris.txt にID記入
177 # ALL
178 say IRIS $a[0];
179 # 5分割
180 say IRIS5 $a[0];
181 # テスト
182 if ($c % 10 == 0){ say IRIST $a[0] }
183 if ($c % 500 == 0){ say IRISTS $a[0] }
184 }
185 # INFO
186 if ($c % 10000 == 0 ) { say STDERR "[INFO]: $c death certificates
processed." }
187 }
188 }
189 close(IN);
190
191
192 #== ALL
193 close(IDENTALL);
194 close(MEDCODALL);
195
196 #== 5分割
197 close($OUTI1);
198 close($OUTI2);
199 close($OUTI3);
200 close($OUTI4);
201 close($OUTI5);
202
203 close($OUTM1);
204 close($OUTM2);
205 close($OUTM3);
206 close($OUTM4);
207 close($OUTM5);
208
209 #== テスト用 (10件ごと)
210 close(TESTI);
211 close(TESTM);
212
213 #== テスト用 (5000件ごと)
214 close(TESTIS);
215 close(TESTMS);
216
217 #== IRIS にかけたリスト
218 close(IRIS);
219 close(IRIS5);
220 close(IRIST);
221 close(IRISTS);
222
223 #== 期間表現
224 close(KIKAN);
225
226

```

```

1 package GKAI::Coding;
2
3 #=====
4 #==                                     ==#
5 #==          [ GKAI::Coding ]          ==#
6 #==                                     ==#
7 #==                                     ==#
8 #=====
9
10 use warnings;
11 use v5.28;
12 use utf8;
13 use GKAI::Util;
14 use Encode;
15 use Carp qw(croak);
16 use Data::Dumper;
17
18 binmode STDIN, ":utf8";
19 binmode STDOUT, ":utf8";
20 binmode STDERR, ":utf8";
21
22 #== 初期設定 =====
23 our $VERSION = 1.00;
24 our %DEFAULT = ();
25
26 #== コンストラクタ =====
27 sub new {
28     my $class = shift;
29     my $this = {};
30     bless $this, $class;
31
32     #== 変数の設定 =====
33     my (%option) = @_;
34     my $u = new GKAI::Util;
35     $this->{UTIL} = $u;
36     $this->{SDM} = {};
37     $this->{TIKANRULE} = {};
38     $this->{UNCODE} = {};
39     $this->{TIKANRULE2} = {};
40
41     #== 初期設定 =====
42     $this->loadSDM($option{"SDM"}, $option{"UNCODE"});
43     $this->loadICDtikanRule($option{"ICDtikan"});
44     $this->loadICDtikanRule2($option{"ICDtikan2"});
45     return $this;
46 }
47
48 #== デストラクタ =====
49 sub DESTROY {
50     my $this = shift;
51 }
52
53 #== Methods =====
54
55 #-----
56 # [loadSDM]
57 #-----
58 sub loadSDM{
59     my $this = shift;
60     my ($in, $in2) = @_;
61     open SDM, "<:utf8", $in or croak("[ERROR]: cannot load SDM");
62     say STDERR '[INFO]: 標準病名マスター (' . $in . ") loaded";
63     while (<SDM>){
64         chomp;
65         my ($d, $i) = split(/\t/);
66         $this->{SDM}{$d} = $i;
67     }
68     close(SDM);
69
70     open UNCODE, "<:utf8", $in2 or croak("[ERROR]: cannot load UNCODE");
71     say STDERR '[INFO]: 未コード化傷病名用マスター (' . $in2 . ") loaded";
72     while (<UNCODE>){
73         chomp;

```

```

74     my ($d, $i) = split(/\t/);
75     $this->{SDM}{$d} = $i;
76 }
77 close(UNCODE);
78 }
79
80 #-----
81 # [loadICDtikanRule]
82 #-----
83 sub loadICDtikanRule{
84     my $this = shift;
85     my ($in) = @_ ;
86     my $info = {};
87     $info->{NUM} = 0;
88     $info->{PATH} = $in;
89     say STDERR "[INFO]: ICD10コード強制置換ルール (" . $info->{PATH} . ")
loading...";
90     my $csv = Text::CSV::Encoded->new({
91         encoding_in => 'UTF-8',
92         encoding_out => 'UTF-8'
93     });
94     open my $IN, '<:utf8', $in or die "cannot open $in !";
95     while (my $fields = $csv->getline($IN)){
96         # 現在有効なルールのみ
97         if ($fields->[4] =~ /^(1|2)$/){
98             $info->{NUM} ++;
99             my $p = $fields->[0];
100             $this->{TIKANRULE}{$p}{FREQ} = $fields->[2];
101             $this->{TIKANRULE}{$p}{NEW} = $fields->[1];
102         }
103     }
104     close($IN);
105
106     say STDERR "[INFO]: 有効ICD10コード強制置換ルール数 " . $info->{NUM};
107 }
108
109
110 sub loadICDtikanRule2{##異字体の正規化
111     my $this = shift;
112     my ($in) = @_ ;
113     my $num = 0;
114     open my $fh, '<:encoding(utf8)', $in; # auto decoding on read
115     while (my $line = <$fh> ) {
116         chomp ($line);
117         Encode::_utf8_off($line);
118         $line= decode('UTF-8', $line);
119         my @d=split(/\t/, $line, -1);
120         next if (length($d[0])<1 );
121         $num++;
122         $this->{TIKANRULE2}{$num}{before}=$d[0];
123         $this->{TIKANRULE2}{$num}{after}=$d[1];
124     }
125     $this->{TIKANRULE2}{NUM}=$num;
126     close($fh);
127 }
128
129
130 sub tikanICD2{
131     my $this = shift;
132     my ($in) = @_ ;
133     for my $i(1..$this->{TIKANRULE2}{NUM})
134     {
135         my $before=$this->{TIKANRULE2}{$i}{before};
136         my $after=$this->{TIKANRULE2}{$i}{after};
137         $before=quotemeta $before;
138         $after=quotemeta $after;
139         if ($in =~ /$before/) {
140             $in =~ s/$before/$after/g;
141         }
142     }
143     return $in;
144 }
145

```

```

146
147 #-----
148 # [tikanICD]
149 #-----
150 sub tikanICD{
151     my $this = shift;
152     my ($in) = @_ ;
153     my $ret = '';
154     if (exists($this->{TIKANRULE}{$in})) {
155         $ret = $this->{TIKANRULE}{$in}{NEW};
156     }
157     else {
158         $ret = $in;
159     }
160     return $ret;
161 }
162
163
164 #-----
165 # [byomei2icd] 病名から何らかのICDコードを返す。なければ空文字
166 #-----
167 sub byomei2icd{
168     my $this = shift;
169     my ($in) = @_ ;
170     my $code = '';
171     my $ret = '';
172
173     my $sdm = $this->{SDM};
174
175     #--- 仮のICDコードを引く
176     # 標準病名 + 未コード化傷病名用セットを引く
177     if (exists($sdm->{$in})) {
178         $code = $sdm->{$in};
179     }
180
181     # 部分一致の場合
182     else {
183         $code = ''; #*
184     }
185
186     #--- IRIS入力用にICDコードを無理矢理変更
187     $ret = $this->tikanICD($code);
188     return $ret;
189 }
190
191 #-----
192 # [ICDCoding]
193 #-----
194 #-----
195 sub ICDCoding{
196     my $this = shift;
197     my @a = @_ ;
198     my $ret = {};
199     my $u = $this->{UTIL};
200     my $sdm = $this->{SDM};
201     $ret->{HIT} = 1;
202     $ret->{DIS} = [];
203     $ret->{UNKNOWN} = {};
204     for (my $i = 0; $i < @a; $i++){
205         my $byomei = $a[$i];
206         $ret->{DIS}[$i] = '';
207
208         # 前後の全角/半角空白の連続、「、」の前後の全角空白のみを除去
209         my $tmp1 = $u->rmSpaceSimple($byomei);
210
211         # カッコで囲まれた部分を除外する
212         # 括弧を取る
213         $tmp1 =~ s/<.*?>//g if( $tmp1 );
214         $tmp1 =~ s/\(.*?\)//g if( $tmp1 );
215         $tmp1 =~ s/(.*?) //g if( $tmp1 );
216         $tmp1 =~ s/[.*?] //g if( $tmp1 );
217         $tmp1 =~ s/(.*?) //g if( $tmp1 );
218

```

```

219 # スタート文字の場合削除
220 my @mark1=((">","\)"," " ",") " ",") " ");
221
222 foreach my $m (@mark1){
223     $m=quotemeta $m;
224     $tmp1=~s/^\$m//g if( $tmp1 );
225 }
226
227 # 閉じ括弧がなければ全部削除
228 my @mark2=("<",'('," ("," ["," (");
229
230 foreach my $m (@mark2){
231     $m=quotemeta $m;
232     $tmp1 =~ s/\$m.*$//g if( $tmp1 );
233 }
234
235 $tmp1 = $this->tikanICD2( $tmp1 );
236
237 # 空文字列でなければ
238 if ( $tmp1 ne '' ) {
239
240     my $res = ''; # ICD Coding 結果
241
242     #--- パターン解析用
243     #my $pattern = $tmp1;
244     #$pattern =~ s/[^\ \. ]/x/g;
245     #$pattern =~ s/x+/x/g;
246     #say $pattern;
247
248     #--- 複雑なパターン
249     # 全角空白あり 読点なし
250     if ( $tmp1 =~ / / and $tmp1 !~ /、 / ) {
251
252         my @b = split(/ +/, $tmp1);
253         for (my $i = 0; $i < @b; $i++) {
254             my $tmp2 = $u->zen2han($b[$i]);
255             my $tmp3 = $this->byomei2icd($tmp2);
256             if ( $tmp3 ne '' ){
257                 $res .= ','. $tmp3;
258             }
259             else {
260                 $res .= ',*';
261             }
262         }
263     }
264
265     # 全角空白なし 読点あり
266     elsif ( $tmp1 !~ / / and $tmp1 =~ /、 / ) {
267         #先頭と最後の読点は削除
268         $tmp1 =~ s/^\ //g;
269         $tmp1 =~ s/\ $//g;
270         my @b = split(/、 +/, $tmp1);
271         for (my $i = 0; $i < @b; $i++) {
272             my $tmp2 = $u->zen2han($b[$i]);
273             my $tmp3 = $this->byomei2icd($tmp2);
274             if ( $tmp3 ne '' ){
275                 $res .= ','. $tmp3;
276             }
277             else {
278                 $res .= ',*';
279             }
280         }
281     }
282
283     #--- 残りは"1病名"とみなす
284     else {
285         my $tmp2 = $u->zen2han($tmp1);
286         my $tmp3 = $this->byomei2icd($tmp2);
287         if ( $tmp3 ne '' ){
288             $res .= ','. $tmp3;
289         }
290         else {
291             $res .= ',*';
292         }

```

```
292     }
293   }
294   my $tmpres = substr($res, 1);
295
296   # *を含んだら HIT を 0にする
297   if ($tmpres =~ /*/){
298     $ret->{HIT} = 0;
299   }
300   $ret->{DIS}[$i] = $tmpres;
301 }
302 }
303 return $ret;
304 }
305
306 1;
307
308
```

```

1 package GKAI::Kikan;
2
3 #=====
4 #==                                     ==#
5 #==          [ GKAI::Kikan ]          ==#
6 #==                                     ==#
7 #==                                     ==#
8 #=====
9
10 use warnings;
11 use v5.28;
12 use utf8;
13 use Encode;
14 use Carp qw(croak);
15 use Text::CSV::Encoded;
16 use GKAI::Util;
17
18 binmode STDIN, ":utf8";
19 binmode STDOUT, ":utf8";
20 binmode STDERR, ":utf8";
21
22 #== 初期設定 =====
23 our $VERSION = 1.00;
24 our %DEFAULT = ();
25
26 #== コンストラクタ =====
27 sub new {
28     my $class = shift;
29     my $this = {};
30     bless $this, $class;
31
32     #== 変数の設定 =====
33     my (%option) = @_ ;
34     $this->{KIKANRULE} = {};
35     $this->{UTIL} = new GKAI::Util();
36
37     #== 初期設定 =====
38     $this->loadKikanRule($option{"kikanRule"}); #
39
40     #=====
41     return $this;
42 }
43
44 #== デストラクタ =====
45 sub DESTROY {
46     my $this = shift;
47 }
48
49 #== Methods =====
50
51 #-----
52 # [getKikan]
53 #-----
54 sub getKikan{
55     my $this = shift;
56     my ($in) = @_ ;
57     my $u = $this->{UTIL};
58     my $in2 = $u->rmSpaceSimple($in);
59     my $str = $u->zen2han($in2);
60     my $p = $this->getKikanPattern($in);
61     my $ret = '';
62     if ($str ne '') {
63         if (exists($this->{KIKANRULE}{$p})) {
64             my $f = $this->{KIKANRULE}{$p}{FREQ};
65             my $v = $this->{KIKANRULE}{$p}{VAR};
66             my $v2 = $v;
67             my $u = $this->{KIKANRULE}{$p}{UNIT};
68             my $r = '';
69             my @a = (); # 元の数値表現
70             while ($str =~ /\d{1,}/g){ push(@a, $&) }
71             my @b = (); # 正規化数値表現 ('09分' 等対策)
72             for (my $i = 0; $i < @a; $i++){
73                 my $tmp = $a[$i] + 0;

```

```

74         push(@b, $tmp);
75     }
76     if ($v2 =~ /\$1/){ $v2 =~ s/\$1/$b[0]/ }
77     if ($v2 =~ /\$2/){ $v2 =~ s/\$2/$b[1]/ }
78     if ($v2 =~ /\$3/){ $v2 =~ s/\$3/$b[2]/ }
79     if ($v2 ne ''){ $r = eval($v2)};
80     my $r2 = $r . $u;
81     if ($r2 ne '' or $r2 ne 'N/A') {$ret = $r2}
82 }
83 }
84 return $ret;
85 }
86
87 #-----
88 # [debug]
89 #-----
90 sub debug{
91     my $this = shift;
92     my ($in) = @_ ;
93     my $u = $this->{UTIL};
94     my $in2 = $u->rmSpaceSimple($in);
95     my $str = $u->zen2han($in2);
96     my $p = $this->getKikanPattern($in);
97     my $ret = '';
98
99     if ($str ne '') {
100         if (exists($this->{KIKANRULE}{$p})) {
101             my $f = $this->{KIKANRULE}{$p}{FREQ};
102             my $v = $this->{KIKANRULE}{$p}{VAR};
103             my $v2 = $v;
104             my $u = $this->{KIKANRULE}{$p}{UNIT};
105             my $r = '';
106             my @a = (); # 元の数値表現
107             while ($str =~ /\d{1,}/g){ push(@a, $&) }
108             my @b = (); # 正規化数値表現 ('09分' 等対策)
109             for (my $i = 0; $i < @a; $i++){
110                 my $tmp = $a[$i] + 0;
111                 push(@b, $tmp);
112             }
113             if ($v2 =~ /\$1/){ $v2 =~ s/\$1/$b[0]/ }
114             if ($v2 =~ /\$2/){ $v2 =~ s/\$2/$b[1]/ }
115             if ($v2 =~ /\$3/){ $v2 =~ s/\$3/$b[2]/ }
116             if ($v2 ne ''){ $r = eval($v2)};
117             my $r2 = $r . $u;
118             $ret = $str . "\t" . $p . "|" . $f . "|" . $v . "|" . $u . "\t" .
119 $v2 . "|" . $r . "\t" . $r2;
120         }
121     }
122     return $ret;
123 }
124 #-----
125 # [loadKikanRule]
126 #-----
127 sub loadKikanRule{
128     my $this = shift;
129     my ($in) = @_ ;
130     my $info = {};
131     $info->{NUM} = 0;
132     $info->{PATH} = $in;
133     say STDERR "[INFO]: 期間正規化ルール (" . $info->{PATH} . ") loading...";
134     my $csv = Text::CSV::Encoded->new({
135         encoding_in => 'UTF-8',
136         encoding_out => 'UTF-8'
137     });
138     open my $IN, '<:utf8', $in or die "cannot open $in $!";
139     while (my $fields = $csv->getline($IN)){
140         # 現在有効なルールのみ
141         if ($fields->[5] eq '1'){
142             $info->{NUM} ++;
143             my $p = $fields->[1];
144             $this->{KIKANRULE}{$p}{FREQ} = $fields->[0];
145             $this->{KIKANRULE}{$p}{VAR} = $fields->[3];

```

```

146     $this->{KIKANRULE}{$p}{UNIT} = $fields->[4];
147     }
148 }
149 close($IN);
150
151 say STDERR "[INFO]: 有効期間正規化ルール数 " . $info->{NUM};
152 }
153
154 #-----
155 # [getKikanPattern]
156 #-----
157 sub getKikanPattern{
158     my $this = shift;
159     my ($in) = @_ ;
160     my $u = $this->{UTIL};
161     my $in2 = $u->rmSpaceSimple($in);
162     my $in3 = $u->zen2han($in2);
163     $in3 =~ tr/0-9/xxxxxxxxxxx/;
164     return $in3;
165 }
166
167
168 1;
169
170

```

```

1 package GKAI::Util;
2
3 #=====
4 #==                                     ==#
5 #==          [ GKAI::Util ]          ==#
6 #==                                     ==#
7 #==                                     ==#
8 #=====
9
10 use warnings;
11 use v5.28;
12 use utf8;
13 use Encode;
14 use Carp qw(croak);
15 use Text::CSV::Encoded;
16
17 binmode STDIN, ":utf8";
18 binmode STDOUT, ":utf8";
19 binmode STDERR, ":utf8";
20
21 #== 初期設定 =====
22 our $VERSION = 1.00;
23 our %DEFAULT = ();
24
25 #== コンストラクタ =====
26 sub new {
27     my $class = shift;
28     my $this = {};
29     bless $this, $class;
30
31     #== 変数の設定 =====
32     my (%option) = @_ ;
33     #== 初期設定 =====
34
35     return $this;
36 }
37
38 #== デストラクタ =====
39 sub DESTROY {
40     my $this = shift;
41     #untie( %{ $this->{DATA} } );
42 }
43
44 #== Methods =====
45
46 #-----
47 # [ymd] 年月日のフォーマット合わせ
48 #     3020421 4280502
49 #-----
50 sub ymd{
51     my $this = shift;
52     my $in = shift or croak("[ERROR]: No Input");
53     my $y = '';
54     my $t1 = substr($in, 0, 1);
55     my $t2 = substr($in, 1, 2);
56     my $m = substr($in, 3, 2);
57     my $d = substr($in, 5, 2);
58     my $ret = '';
59
60     # 明治
61     if ($t1 eq '1'){
62         $y = 1867 + $t2;
63     }
64     # 大正
65     elsif ($t1 eq '2'){
66         $y = 1911 + $t2;
67     }
68     # 昭和
69     elsif ($t1 eq '3'){
70         $y = 1925 + $t2;
71     }
72     # 平成
73     elsif ($t1 eq '4'){

```



```

146 #-----
147 # [identHead] Ident テーブルの項目リストを引く
148 #-----
149 sub identHead{
150     my $this = shift;
151     my @idents = ('CertificateKey',
152                 'LastChange',
153                 'DateBirth',
154                 'DateDeath',
155                 'Age',
156                 'Sex',
157                 'MannerOfDeath',
158                 'UCCode',
159                 'MainInjury',
160                 'Status',
161                 'Reject',
162                 'Coding',
163                 'CodingVersion',
164                 'CodingFlags',
165                 'SelectedCodes',
166                 'SubstitutedCodes',
167                 'ErnCodes',
168                 'AcmeCodes',
169                 'MultipleCodes',
170                 'Comments',
171                 'FreeText',
172                 'ToDoList',
173                 'CoderReject',
174                 'DiagnosisModified',
175                 'Residence',
176                 'Name',
177                 'Address',
178                 'AutopsyRequested',
179                 'AutopsyUsed',
180                 'RecentSurgery',
181                 'DateOfSurgery',
182                 'ReasonSurgery',
183                 'DateOfInjury',
184                 'PlaceOfOccurrence',
185                 'ActivityCode',
186                 'ExternalFreeText',
187                 'Pregnancy',
188                 'PregnancyContributeDeath',
189                 'Stillbirth',
190                 'MultiplePregnancy',
191                 'CompletedWeeks',
192                 'BirthWeight',
193                 'AgeOfMother',
194                 'ConditionsMother',
195                 'CertImage');
196     return \@idents;
197 }
198
199 1;
200
201

```

Iris入力データ作成用 日本独自 ICDコード変換ルール

| 対象 | 変換後 | 数 | 対象症病名例 | Valid Flag (2は確信度が低いもの) | 対応方法・備考 |
|-------|------|------|---------------|----------------------------|---|
| J9699 | J969 | 5338 | 呼吸不全 | 1 | 桁落とし |
| J9609 | J960 | 4009 | 急性呼吸不全 | 1 | 桁落とし |
| E14 | E149 | 1767 | 糖尿病 | 1 | 9合併症を伴わない |
| J9619 | J961 | 1141 | 慢性呼吸不全 | 1 | 桁落とし |
| G903 | G239 | 237 | 多系統萎縮症 | 2 | シャイ・ドレーガー症候群 => G23.8, 多系統萎縮症 => G23.2 or G23.3 |
| E11 | E119 | 223 | 2型糖尿病 | 2 | 9合併症を伴わない |
| B59 | J173 | 105 | ニューモシスチス肺炎 | 1 | 併記されてる別コード |
| I7020 | I702 | 31 | 末梢動脈硬化症 | 1 | 桁落とし |
| J9691 | J969 | 30 | 2型呼吸不全 | 1 | 桁落とし |
| E10 | E109 | 17 | 1型糖尿病 | 2 | 9合併症を伴わない |
| M7265 | M726 | 10 | 外陰部壊死性筋膜炎 | 1 | 桁落とし |
| R17 | R198 | 10 | 黄疸 | 1 | 消化器系および腹部に関するその他の明示された症状および兆候 |
| J9611 | J961 | 8 | 慢性2型呼吸不全 | 1 | 桁落とし |
| E13 | E139 | 6 | B型インスリン受容体異常症 | 2 | 9合併症を伴わない |
| J9601 | J961 | 1 | 急性2型呼吸不全 | 1 | 桁落とし |

Iris入力データ作成用期間表現正規化ルール

| 頻度 | 期間表現 | Iris 表記 | 変数 | 単位 | Valid Flag | memo |
|---------|--------|------------------|------------------|---------|------------|------|
| 1253817 | 不詳 | | | N/A | 1 | |
| 533962 | x日 | xDays | \$1 | Days | 1 | |
| 450503 | 約xヶ月 | xMonths | \$1 | Months | 1 | |
| 390626 | 約x年 | xYears | \$1 | Years | 1 | |
| 368978 | xx日 | xxDays | \$1 | Days | 1 | |
| 364311 | xヶ月 | xMonths | \$1 | Months | 1 | |
| 282086 | x年 | xYears | \$1 | Years | 1 | |
| 271392 | 短時間 | | 2 | Hours | 1 | 解釈 |
| 209669 | 不明 | | | N/A | 1 | |
| 207877 | x日間 | xDays | \$1 | Days | 1 | |
| 206337 | 約x週間 | xWeeks | \$1 | Weeks | 1 | |
| 199044 | 約x日 | xDays | \$1 | Days | 1 | |
| 188073 | x年xヶ月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 162854 | 約x時間 | xHours | \$1 | Hours | 1 | |
| 161570 | 約xx年 | xxYears | \$1 | Years | 1 | |
| 143965 | xx年 | xxYears | \$1 | Years | 1 | |
| 137907 | xx日間 | xxDays | \$1 | Days | 1 | |
| 133864 | x時間 | xHours | \$1 | Hours | 1 | |
| 115740 | 約x日間 | xDays | \$1 | Days | 1 | |
| 115673 | 約xx日 | xxDays | \$1 | Days | 1 | |
| 101846 | xか月 | xMonths | \$1 | Months | 1 | |
| 100864 | 約x年xヶ月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 99877 | 約x年間 | xYears | \$1 | Years | 1 | |
| 98383 | x週間 | xWeeks | \$1 | Weeks | 1 | |
| 84620 | 約xか月 | xMonths | \$1 | Months | 1 | |
| 82609 | 約xヶ月 | xMonths | \$1 | Months | 1 | |
| 75554 | 約xx日間 | xxDays | \$1 | Days | 1 | |
| 70673 | 約xカ月 | xMonths | \$1 | Months | 1 | |
| 67646 | 約xヵ月 | xMonths | \$1 | Months | 1 | |
| 64885 | xヶ月 | xMonths | \$1 | Months | 1 | |
| 61412 | xカ月 | xMonths | \$1 | Months | 1 | |
| 60175 | xヵ月 | xMonths | \$1 | Months | 1 | |
| 55943 | x年xか月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 53675 | 約xヶ月間 | xMonths | \$1 | Months | 1 | |
| 50109 | x年間 | xYears | \$1 | Years | 1 | |
| 45212 | 約xx時間 | xxHours | \$1 | Hours | 1 | |
| 44825 | xx時間 | xxHours | \$1 | Hours | 1 | |
| 38774 | 約xx年間 | xxYears | \$1 | Years | 1 | |
| 35001 | 数時間 | | 2 | Hours | 1 | 解釈 |
| 31651 | xx分 | xxMinutes | \$1 | Minutes | 1 | |
| 30922 | x時間xx分 | $x*60+xxMinutes$ | $\$1 * 60 + \2 | Minutes | 1 | |
| 30801 | x年xカ月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 30338 | x年xヶ月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 30091 | x年xヵ月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 28310 | xxヶ月 | xxMonths | \$1 | Months | 1 | |
| 28113 | 約xx分 | xxMinutes | \$1 | Minutes | 1 | |
| 27672 | 約xxヶ月 | xxMonths | \$1 | Months | 1 | |
| 25236 | xx年間 | xxYears | \$1 | Years | 1 | |
| 23092 | x年xxヶ月 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |

| | | | | | | |
|-------|----------|-----------------|----------------|---------|---|---------------------------|
| 22188 | 約x年半 | x*12+6Months | \$1 * 12 + 6 | Months | 1 | |
| 20461 | 約x年xか月 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 17932 | xヶ月間 | xMonths | \$1 | Months | 1 | |
| 16965 | 約x年xヶ月 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 16438 | 数分 | | 2 | Minutes | 1 | 解釈 |
| 16376 | 同上 | 前の期間と同じ | | N/A | q | 他セル(10,12,14,16:l*_p)情報利用 |
| 16360 | 数日 | | 2 | Days | 1 | 解釈 |
| 16010 | xヶ月xx日 | 31*x+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 15201 | 約x年xカ月 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 14242 | 数年 | | 2 | Years | 1 | 解釈 |
| 14167 | 約x年xヵ月 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 12905 | 数日間 | | 2 | Days | 1 | 解釈 |
| 12632 | 約x時間xx分 | x*60+xxMinutes | \$1 * 60 + \$2 | Minutes | 1 | |
| 12573 | 約xヶ月半 | 31*x+15Days | \$1 * 31 + 15 | Days | 1 | |
| 11409 | 約半年 | 6Months | 6 | Months | 1 | |
| 10246 | 約x年xxヶ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 9957 | 約xヶ月間 | xMonths | \$1 | Months | 1 | |
| 9909 | 数年間 | | 2 | Years | 1 | 解釈 |
| 9737 | 短時間*推定+ | | 2 | Hours | 1 | 解釈 |
| 9300 | 約x週 | xWeeks | \$1 | Weeks | 1 | |
| 8528 | 約xヵ月間 | xMonths | \$1 | Months | 1 | |
| 8436 | x月 | | \$1 | Months | 1 | 解釈 |
| 8363 | 急死 | | 1 | Days | 1 | 解釈 |
| 8343 | xx年xヶ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 8214 | 平成xx年x月x | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 8214 | xxか月 | xxMonths | \$1 | Months | 1 | |
| 7598 | 約xヵ月間 | xMonths | \$1 | Months | 1 | |
| 7543 | 数ヶ月 | | 3 | Months | 1 | 解釈 |
| 7406 | x年半 | x*12+6Months | \$1 * 12 + 6 | Months | 1 | |
| 7375 | 約xヵ月間 | xMonths | \$1 | Months | 1 | |
| 7305 | x年xxか月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 7106 | 約x年xヶ月間 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 6335 | xヶ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 6256 | 数分間 | | 2 | Minutes | 1 | 解釈 |
| 6213 | 即死 | | 2 | Minutes | 1 | 解釈 |
| 6011 | xxx日 | xxxDays | \$1 | Days | 1 | |
| 5999 | 約x時間半 | x*60+30Minutes | \$1 * 60 + 30 | Minutes | 1 | |
| 5740 | xヶ月x日 | 31*x+xDays | \$1 * 31 + \$2 | Days | 1 | |
| 5721 | 長期間 | | | | q | 不明と同義→短期間と比較 |
| 5563 | 約xxか月 | xxMonths | \$1 | Months | 1 | |
| 5373 | 約x月 | xMonths | \$1 | Months | 1 | |
| 5010 | x週 | xWeeks | \$1 | Weeks | 1 | |
| 4992 | 約xxヶ月 | xxMonths | \$1 | Months | 1 | |
| 4830 | xxヶ月 | xxMonths | \$1 | Months | 1 | |
| 4683 | xxカ月 | xxMonths | \$1 | Months | 1 | |
| 4533 | xか月xx日 | x*31+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 4457 | 約半日 | 12Hours | 12 | Hours | 1 | |
| 4425 | 約xxヵ月 | xxMonths | \$1 | Months | 1 | |
| 4160 | x年x月 | | \$1 * 12 + \$2 | Months | 1 | 解釈 |
| 4150 | 平成xx年xx月 | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 4069 | xxヵ月 | xxMonths | \$1 | Months | 1 | |
| 4041 | xx時間xx分 | xx*60+xxMinutes | \$1 * 60 + \$2 | Minutes | 1 | |

| | | | | | | |
|------|---------|----------------|----------------|---------|---|-----------------------|
| 4037 | x年xxカ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 3971 | 数週間 | | 3 | Weeks | 1 | 解釈 |
| 3875 | 約xxカ月 | xxMonths | \$1 | Months | 1 | |
| 3837 | 記入なし | | | N/A | 1 | |
| 3697 | 約x.xヶ月 | x.x*31Days | \$1 | Months | 1 | 解釈 |
| 3677 | x年xxヶ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 3676 | x年xxカ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 3671 | 約xx分間 | xxMinutes | \$1 | Minutes | 1 | |
| 3501 | x年以上 | xYears | \$1 | Years | 1 | |
| 3475 | x分 | xMinutes | \$1 | Minutes | 1 | |
| 3334 | x年xヶ月間 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 3236 | 約xカ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 3181 | 不詳-不詳 | | | N/A | 1 | |
| 3055 | xx年以上 | xxYears | \$1 | Years | 1 | |
| 3028 | xカ月xx日 | x*12+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 2987 | xカ月xx日 | x*12+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 2972 | xヶ月間 | xMonths | \$1 | Months | 1 | |
| 2912 | 約xx年xヶ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 2878 | 直後 | | | N/A | 1 | |
| 2865 | 詳細不明 | | | N/A | 1 | |
| 2826 | xか月間 | xMonths | \$1 | Months | 1 | |
| 2815 | x.xヶ月 | x.x*31Days | \$1 | Months | 1 | 解釈 |
| 2772 | xカ月間 | xMonths | \$1 | Months | 1 | |
| 2741 | 約xxヶ月間 | xxMonths | \$1 | Months | 1 | |
| 2719 | xx年xカ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 2659 | 平成xx年x月 | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 2615 | 空欄 | | | N/A | 1 | |
| 2590 | xヶ月xx日 | x*31+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 2576 | 約半年間 | 6Months | 6 | Months | 1 | |
| 2503 | 約xヶ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 2434 | xx分間 | xxMinutes | \$1 | Minutes | 1 | |
| 2433 | 約x分 | xMinutes | \$1 | Minutes | 1 | |
| 2430 | xカ月間 | xMonths | \$1 | Months | 1 | |
| 2409 | まもなく | | | N/A | 1 | |
| 2407 | x時間半 | x*60+30Minutes | \$1 * 60 + 30 | Minutes | 1 | |
| 2407 | 約x年前 | xYears | \$1 | Years | 1 | |
| 2361 | 短期間 | | 1 | Months | 1 | 解釈 |
| 2356 | 約xか月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 2327 | 約xカ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 2325 | 数十分 | | 30 | Minutes | 1 | 解釈 |
| 2199 | 約x.x年 | x.x*12Months | \$1 | Years | 1 | 解釈 |
| 2196 | 半年 | 6Months | 6 | Months | 1 | |
| 2133 | xカ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 2118 | 約x年xxカ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 2081 | 約xx年前 | xxYears | \$1 | Years | 1 | |
| 1975 | 数時間*推定+ | | 3 | Hours | 1 | 解釈 |
| 1929 | 約数時間 | | 3 | Hours | 1 | 解釈 |
| 1903 | x年前 | xYears | \$1 | Years | 1 | |
| 1832 | 約x年-約x年 | xYears | \$2 | Years | 1 | 解釈 |
| 1823 | 不祥 | | | N/A | 1 | |
| 1810 | 約xヶ月xx日 | x*31+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 1772 | 約x年xxヶ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |

| | | | | | | |
|------|------------|----------------|-----------------|---------|---|-----------------------|
| 1760 | 約x年xxカ月 | x*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1679 | 約x.x時間 | x.x*60Minutes | \$1 | Hours | 1 | 解釈 |
| 1636 | x時間x分 | x*60+xMinutes | \$1 * 60 + \$2 | Minutes | 1 | |
| 1616 | 約x年x月 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1584 | xxxx年x月x | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 1581 | xか月x日 | | \$1 * 31 + \$2 | Days | 1 | |
| 1563 | 数十年 | | 20 | Years | 1 | 解釈 |
| 1562 | まもなく*推定+ | | | | | |
| 1561 | xか月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 1559 | x年xヶ月xx日 | x*365+x*31 | \$1 * 12 + \$2 | Months | 1 | 解釈 |
| 1535 | xx年前 | xxYears | \$1 | Years | 1 | |
| 1522 | 即時 | | | | | |
| 1464 | xxx日間 | xxxDays | \$1 | Days | 1 | |
| 1454 | 約x日半 | x*24+12Hours | \$1 * 24 + 12 | Hours | 1 | |
| 1433 | xx年xカ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1425 | 約x年xxヵ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1395 | xカ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 1393 | 半日 | 12Hours | 12 | Hours | 1 | |
| 1392 | xx年xヵ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1388 | 約x年xヶ月間 | x*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1358 | xx年xヶ月 | xx*12+xMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1341 | やや短時間 | | | | | |
| 1327 | 数か月 | 6Months | 3 | Months | 1 | 解釈 |
| 1309 | xヶ月半 | x*31+15Days | \$1 * 31 + 15 | Days | 1 | |
| 1308 | 約xxx日 | xxxDays | \$1 | Days | 1 | |
| 1304 | Hxx.x.xx | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 1272 | 平成xx年 | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 1213 | xヶ月xx日間 | x*31+xxDays | \$1 * 31 + \$2 | Days | 1 | |
| 1208 | 数カ月 | | 3 | Months | 1 | 解釈 |
| 1208 | 約数分 | | 3 | Minutes | 1 | 解釈 |
| 1187 | 記載なし | | | | q | 不明のため |
| 1187 | 短時間推定 | | | | | |
| 1167 | 約xx年-約x年 | xYears | \$1 | Years | 1 | 解釈 |
| 1164 | 瞬時 | | | | | |
| 1161 | 約x時間*推定+ | xHours | \$1 | Hours | 1 | 解釈 |
| 1161 | x日前 | xDays | \$1 | Days | 1 | |
| 1156 | xヵ月x日 | x*31+xDays | \$1 * 31 + \$2 | Days | 1 | |
| 1146 | xx年xxヶ月 | xx*12+xxMonths | \$1 * 12 + \$2 | Months | 1 | |
| 1144 | xxヶ月間 | xxMonths | \$1 | Months | 1 | |
| 1139 | 数ヶ月間 | 6Months | 3 | Months | 1 | |
| 1131 | ごく短時間 | | | | | |
| 1129 | 平成xx年x月xx日 | 逆算する | | | q | 他セル (49:death_ymd) 利用 |
| 1122 | x日xx時間 | x*24+xxHours | \$1 * 24 + \$2 | Hours | 1 | |
| 1112 | x.x年 | x.x*12Months | \$1 | Years | 1 | 解釈 |
| 1070 | xカ月x日 | x*31+xDays | \$1 * 31 + \$2 | Days | 1 | |
| 1065 | x時間程度 | xHours | 3 | Hours | 1 | |
| 1062 | x年-x年 | xYears | \$2 | Years | 1 | 解釈 |
| 1007 | x月xx日 | | | | | |
| 1001 | 約一週間 | 1Weeks | 1 | Weeks | 1 | |
| 1001 | x年xx日 | | \$1 * 365 + \$2 | Days | 1 | |
| 989 | 約xx年-約xx年 | xxYears | \$2 | Years | 1 | 解釈 |
| 974 | x.x時間 | x.x*60Minutes | \$1 | Hours | 1 | 解釈 |

| | | | | | | |
|-----|---------|----------------|------------------|--------|---|--|
| 970 | 約x年xヵ月間 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 965 | xヶ月x日 | $x*31+xDays$ | $\$1 * 31 + \2 | Days | 1 | |
| 953 | xx月 | xxMonths | \$1 | Months | 1 | |
| 942 | 数ヶ月 | | 3 | Months | 1 | |
| 941 | 長期 | | | | | |
| 939 | 約x年xヵ月間 | $x*12+xMonths$ | $\$1 * 12 + \2 | Months | 1 | |
| 937 | 約xx月 | | \$1 | Months | 1 | |
| 922 | x～x時間 | | \$1 | Hours | 1 | |
| 921 | 約x年xヵ月間 | | $\$1 * 12 + \2 | Months | 1 | |

機械学習による原死因コード変更有無予測結果（一部抜粋）

| 仮ID | 予測結果 1:変更あり 0:変更なし | 正解 1:変更あり 0:変更なし | 仮原死因 (Iris) コード | Iris Reject | 確定原死因 コード | 外因符号 | 正誤 |
|-------|--------------------------|------------------------|--------------------|-------------|--------------|------|-------|
| 90 | 0 | 0 | E46 | No | E46 | | TRUE |
| 560 | 0 | 0 | I639 | No | I639 | | TRUE |
| 750 | 1 | 0 | C349 | No | C349 | | FALSE |
| 1530 | 0 | 0 | C679 | No | C679 | | TRUE |
| 2230 | 0 | 0 | R54 | No | R54 | | TRUE |
| 2530 | 0 | 0 | I619 | No | I619 | | TRUE |
| 2660 | 0 | 0 | C169 | No | C169 | | TRUE |
| 3800 | 0 | 0 | C23 | No | C23 | | TRUE |
| 4350 | 0 | 0 | T58 | No | T58 | X474 | TRUE |
| 4760 | 0 | 0 | I219 | No | I219 | | TRUE |
| 4830 | 0 | 0 | D376 | No | D376 | | TRUE |
| 5370 | 0 | 0 | R579 | No | R579 | | TRUE |
| 5730 | 0 | 0 | J189 | No | J189 | | TRUE |
| 5810 | 0 | 0 | R54 | No | R54 | | TRUE |
| 6070 | 0 | 0 | R579 | No | R579 | | TRUE |
| 6110 | 0 | 0 | C509 | No | C509 | | TRUE |
| 6180 | 0 | 0 | C349 | No | C349 | | TRUE |
| 6190 | 0 | 0 | R688 | No | R688 | | TRUE |
| 6870 | 0 | 0 | C80 | No | C80 | | TRUE |
| 7620 | 0 | 0 | C080 | No | C080 | | TRUE |
| 7840 | 1 | 1 | I743 | No | I709 | | TRUE |
| 8280 | 0 | 0 | F03 | No | F03 | | TRUE |
| 8630 | 0 | 0 | C250 | No | C250 | | TRUE |
| 9410 | 0 | 0 | C187 | No | C187 | | TRUE |
| 9890 | 0 | 0 | C187 | No | C187 | | TRUE |
| 10300 | 0 | 1 | I619 | No | I611 | | FALSE |
| 10380 | 1 | 0 | S269 | MayBe | S269 | X788 | FALSE |
| 10490 | 0 | 0 | I711 | No | I711 | | TRUE |
| 10650 | 1 | 1 | C349 | No | C343 | | TRUE |
| 10700 | 0 | 0 | F03 | No | F03 | | TRUE |
| 10730 | 0 | 0 | I693 | No | I693 | | TRUE |
| 11030 | 0 | 0 | C250 | No | C250 | | TRUE |
| 11320 | 0 | 0 | T58 | No | T58 | X678 | TRUE |
| 11470 | 0 | 0 | J189 | No | J189 | | TRUE |
| 12080 | 0 | 0 | R54 | No | R54 | | TRUE |

| | | | | | | | |
|-------|---|---|------|----|------|------|-------|
| 12270 | 0 | 0 | C169 | No | C169 | | TRUE |
| 12280 | 0 | 0 | C55 | No | C55 | | TRUE |
| 12860 | 1 | 1 | R090 | No | T179 | W790 | TRUE |
| 13320 | 0 | 0 | C220 | No | C220 | | TRUE |
| 13520 | 0 | 0 | I693 | No | I693 | | TRUE |
| 13550 | 0 | 0 | N179 | No | N179 | | TRUE |
| 14830 | 0 | 0 | I710 | No | I710 | | TRUE |
| 15010 | 0 | 0 | R54 | No | R54 | | TRUE |
| 15510 | 0 | 0 | J841 | No | J841 | | TRUE |
| 15570 | 0 | 0 | R54 | No | R54 | | TRUE |
| 15590 | 0 | 0 | C211 | No | C211 | | TRUE |
| 15730 | 0 | 0 | C20 | No | C20 | | TRUE |
| 16030 | 0 | 0 | C20 | No | C20 | | TRUE |
| 16200 | 1 | 0 | C189 | No | C189 | | FALSE |
| 16900 | 0 | 0 | C184 | No | C184 | | TRUE |
| 17490 | 0 | 0 | C679 | No | C679 | | TRUE |
| 17540 | 0 | 0 | T751 | No | T751 | W650 | TRUE |
| 17680 | 1 | 1 | M069 | No | I509 | | TRUE |
| 18000 | 0 | 0 | T751 | No | T751 | W650 | TRUE |
| 18160 | 1 | 1 | I639 | No | I693 | | TRUE |
| 18970 | 0 | 0 | R54 | No | R54 | | TRUE |
| 19340 | 0 | 0 | C187 | No | C187 | | TRUE |
| 20390 | 0 | 0 | C900 | No | C900 | | TRUE |
| 20550 | 0 | 0 | C221 | No | C221 | | TRUE |
| 20710 | 0 | 0 | C56 | No | C56 | | TRUE |
| 22340 | 0 | 0 | J439 | No | J439 | | TRUE |
| 22700 | 0 | 0 | M471 | No | M471 | | TRUE |
| 22740 | 0 | 0 | I249 | No | I249 | | TRUE |
| 23290 | 0 | 0 | I509 | No | I509 | | TRUE |
| 24520 | 0 | 0 | C250 | No | C250 | | TRUE |
| 24670 | 0 | 0 | C20 | No | C20 | | TRUE |
| 25100 | 0 | 0 | C182 | No | C182 | | TRUE |
| 25150 | 0 | 0 | I219 | No | I219 | | TRUE |
| 25340 | 0 | 1 | C169 | No | C162 | | FALSE |
| 25580 | 0 | 0 | I609 | No | I609 | | TRUE |
| 25630 | 0 | 0 | I609 | No | I609 | | TRUE |
| 26710 | 0 | 1 | C349 | No | C343 | | FALSE |
| 26750 | 0 | 0 | C509 | No | C509 | | TRUE |
| 26770 | 0 | 0 | J189 | No | J189 | | TRUE |
| 27100 | 0 | 0 | I639 | No | I639 | | TRUE |
| 27180 | 0 | 0 | Q042 | No | Q042 | | TRUE |

| | | | | | | | |
|-------|---|---|------|----|------|------|-------|
| 27280 | 0 | 0 | I609 | No | I609 | | TRUE |
| 27520 | 0 | 0 | I219 | No | I219 | | TRUE |
| 27590 | 0 | 0 | N179 | No | N179 | | TRUE |
| 27760 | 0 | 0 | C250 | No | C250 | | TRUE |
| 28510 | 0 | 0 | C711 | No | C711 | | TRUE |
| 28570 | 0 | 0 | I610 | No | I610 | | TRUE |
| 28660 | 0 | 0 | C549 | No | C549 | | TRUE |
| 28780 | 0 | 1 | I219 | No | I251 | | FALSE |
| 28910 | 0 | 0 | I693 | No | I693 | | TRUE |
| 29470 | 0 | 0 | C509 | No | C509 | | TRUE |
| 29540 | 0 | 1 | T794 | No | S409 | W20 | FALSE |
| 29600 | 0 | 0 | I609 | No | I609 | | TRUE |
| 29750 | 0 | 0 | I619 | No | I619 | | TRUE |
| 29830 | 0 | 0 | F03 | No | F03 | | TRUE |
| 29880 | 0 | 0 | N189 | No | N189 | | TRUE |
| 30160 | 0 | 0 | S065 | No | S065 | W010 | TRUE |
| 30670 | 0 | 0 | C349 | No | C349 | | TRUE |
| 30710 | 0 | 0 | C445 | No | C445 | | TRUE |
| 30780 | 0 | 0 | I422 | No | I422 | | TRUE |
| 30810 | 0 | 0 | C20 | No | C20 | | TRUE |
| 31480 | 0 | 0 | K922 | No | K922 | | TRUE |
| 31710 | 0 | 0 | J690 | No | J690 | | TRUE |
| 31800 | 0 | 0 | R54 | No | R54 | | TRUE |
| 32520 | 1 | 0 | C349 | No | C349 | | FALSE |
| 33560 | 0 | 0 | S328 | No | S328 | W13 | TRUE |
| 33860 | 0 | 0 | C159 | No | C159 | | TRUE |
| 34240 | 0 | 0 | I509 | No | I509 | | TRUE |
| 34250 | 0 | 0 | C169 | No | C169 | | TRUE |
| 34620 | 0 | 0 | R54 | No | R54 | | TRUE |
| 35020 | 0 | 0 | C539 | No | C539 | | TRUE |
| 36170 | 0 | 0 | C184 | No | C184 | | TRUE |
| 36490 | 0 | 0 | C159 | No | C159 | | TRUE |
| 36560 | 0 | 0 | C159 | No | C159 | | TRUE |
| 36660 | 0 | 0 | C349 | No | C349 | | TRUE |
| 36820 | 0 | 0 | C162 | No | C162 | | TRUE |
| 36900 | 0 | 0 | I211 | No | I211 | | TRUE |
| 37730 | 0 | 0 | C221 | No | C221 | | TRUE |
| 37810 | 0 | 0 | K746 | No | K746 | | TRUE |
| 38310 | 0 | 0 | J690 | No | J690 | | TRUE |
| 38630 | 0 | 0 | C20 | No | C20 | | TRUE |
| 38910 | 0 | 0 | N19 | No | N19 | | TRUE |

| | | | | | | | |
|-------|---|---|------|----|------|------|-------|
| 38950 | 0 | 0 | C220 | No | C220 | | TRUE |
| 39030 | 0 | 0 | R54 | No | R54 | | TRUE |
| 39440 | 0 | 0 | I219 | No | I219 | | TRUE |
| 39490 | 1 | 1 | C248 | No | C240 | | TRUE |
| 40140 | 1 | 1 | M625 | No | R54 | | TRUE |
| 41370 | 1 | 1 | C248 | No | C240 | | TRUE |
| 41450 | 0 | 0 | C184 | No | C184 | | TRUE |
| 41570 | 0 | 0 | J189 | No | J189 | | TRUE |
| 41780 | 0 | 0 | K802 | No | K802 | | TRUE |
| 41890 | 0 | 0 | J690 | No | J690 | | TRUE |
| 41980 | 0 | 0 | C240 | No | C240 | | TRUE |
| 42160 | 0 | 0 | C20 | No | C20 | | TRUE |
| 42360 | 0 | 0 | J690 | No | J690 | | TRUE |
| 42490 | 0 | 0 | I693 | No | I693 | | TRUE |
| 42630 | 0 | 0 | R54 | No | R54 | | TRUE |
| 43320 | 0 | 0 | N390 | No | N390 | | TRUE |
| 43660 | 0 | 0 | G301 | No | G301 | | TRUE |
| 44090 | 1 | 1 | R090 | No | T598 | X670 | TRUE |
| 44120 | 0 | 0 | J189 | No | J189 | | TRUE |
| 44380 | 0 | 0 | I716 | No | I716 | | TRUE |
| 44450 | 0 | 1 | R688 | No | S828 | X599 | FALSE |
| 44500 | 0 | 0 | D381 | No | D381 | | TRUE |
| 44530 | 0 | 0 | C509 | No | C509 | | TRUE |
| 45750 | 0 | 0 | I619 | No | I619 | | TRUE |
| 46030 | 1 | 0 | D65 | No | D65 | | FALSE |
| 46510 | 0 | 0 | C169 | No | C169 | | TRUE |
| 46590 | 0 | 0 | C187 | No | C187 | | TRUE |
| 46840 | 0 | 0 | C65 | No | C65 | | TRUE |
| 46980 | 0 | 0 | C220 | No | C220 | | TRUE |
| 47100 | 0 | 0 | C20 | No | C20 | | TRUE |
| 47720 | 0 | 0 | C509 | No | C509 | | TRUE |
| 47850 | 0 | 0 | I219 | No | I219 | | TRUE |
| 48430 | 0 | 0 | I48 | No | I48 | | TRUE |
| 48470 | 0 | 0 | C169 | No | C169 | | TRUE |
| 48830 | 0 | 0 | J449 | No | J449 | | TRUE |
| 48880 | 0 | 0 | C349 | No | C349 | | TRUE |
| 48960 | 1 | 1 | R571 | No | T794 | V031 | TRUE |
| 49030 | 1 | 1 | J189 | No | J690 | | TRUE |
| 49050 | 0 | 0 | C20 | No | C20 | | TRUE |
| 49080 | 0 | 0 | I619 | No | I619 | | TRUE |
| 49310 | 0 | 0 | E146 | No | E146 | | TRUE |

| | | | | | | | |
|-------|---|---|------|-------|------|------|-------|
| 50020 | 0 | 0 | I249 | No | I249 | | TRUE |
| 50620 | 1 | 0 | E149 | No | E149 | | FALSE |
| 51040 | 0 | 0 | R54 | No | R54 | | TRUE |
| 51210 | 0 | 0 | I249 | No | I249 | | TRUE |
| 51260 | 0 | 0 | J189 | No | J189 | | TRUE |
| 51460 | 0 | 0 | J690 | No | J690 | | TRUE |
| 51670 | 1 | 1 | C189 | No | C180 | | TRUE |
| 51870 | 0 | 1 | J690 | MayBe | I209 | | FALSE |
| 52180 | 0 | 0 | C20 | No | C20 | | TRUE |
| 52700 | 0 | 0 | I249 | No | I249 | | TRUE |
| 52890 | 0 | 0 | I509 | No | I509 | | TRUE |
| 52990 | 0 | 0 | S062 | No | S062 | V031 | TRUE |
| 53380 | 0 | 0 | C250 | No | C250 | | TRUE |
| 53460 | 0 | 0 | T751 | No | T751 | V922 | TRUE |
| 53480 | 0 | 0 | C169 | No | C169 | | TRUE |
| 53520 | 0 | 0 | C220 | No | C220 | | TRUE |
| 53550 | 0 | 0 | I509 | No | I509 | | TRUE |
| 53830 | 0 | 0 | I259 | No | I259 | | TRUE |
| 53930 | 0 | 0 | C187 | No | C187 | | TRUE |
| 55400 | 0 | 0 | I714 | No | I714 | | TRUE |
| 55460 | 1 | 1 | C349 | No | C343 | | TRUE |
| 55600 | 0 | 0 | C169 | No | C169 | | TRUE |
| 55860 | 0 | 0 | I609 | No | I609 | | TRUE |
| 55960 | 0 | 0 | J189 | No | J189 | | TRUE |
| 56100 | 0 | 0 | N19 | No | N19 | | TRUE |
| 57110 | 0 | 1 | C259 | No | C250 | | FALSE |
| 57580 | 0 | 0 | C349 | No | C349 | | TRUE |
| 57860 | 0 | 0 | I712 | No | I712 | | TRUE |
| 58190 | 0 | 0 | I219 | No | I219 | | TRUE |
| 58260 | 0 | 0 | I219 | No | I219 | | TRUE |
| 58310 | 0 | 0 | C169 | No | C169 | | TRUE |
| 58990 | 0 | 0 | K562 | No | K562 | | TRUE |
| 59020 | 0 | 0 | C187 | No | C187 | | TRUE |
| 59070 | 0 | 0 | T751 | No | T751 | W65 | TRUE |
| 59260 | 1 | 0 | C189 | No | C189 | | FALSE |
| 59530 | 0 | 0 | D469 | No | D469 | | TRUE |
| 59810 | 0 | 0 | I219 | No | I219 | | TRUE |
| 60090 | 0 | 0 | C252 | No | C252 | | TRUE |
| 60110 | 0 | 0 | R54 | No | R54 | | TRUE |
| 60190 | 0 | 0 | I110 | No | I110 | | TRUE |
| 60250 | 0 | 1 | C259 | No | C220 | | FALSE |

| | | | | | | | |
|-------|---|---|------|----|------|------|-------|
| 61570 | 0 | 0 | J849 | No | J849 | | TRUE |
| 61640 | 0 | 0 | C169 | No | C169 | | TRUE |
| 61990 | 0 | 0 | J439 | No | J439 | | TRUE |
| 62250 | 0 | 0 | C184 | No | C184 | | TRUE |
| 62290 | 0 | 0 | K703 | No | K703 | | TRUE |
| 62520 | 1 | 1 | C349 | No | C348 | | TRUE |
| 62640 | 0 | 0 | C56 | No | C56 | | TRUE |
| 62890 | 0 | 0 | K650 | No | K650 | | TRUE |
| 63140 | 0 | 0 | C187 | No | C187 | | TRUE |
| 63700 | 0 | 0 | C184 | No | C184 | | TRUE |
| 63850 | 0 | 0 | C349 | No | C349 | | TRUE |
| 64300 | 0 | 0 | J439 | No | J439 | | TRUE |
| 64930 | 0 | 0 | C20 | No | C20 | | TRUE |
| 65080 | 1 | 1 | C349 | No | C343 | | TRUE |
| 65300 | 0 | 0 | C679 | No | C679 | | TRUE |
| 65400 | 0 | 0 | K261 | No | K261 | | TRUE |
| 65690 | 0 | 0 | I619 | No | I619 | | TRUE |
| 66060 | 0 | 0 | C180 | No | C180 | | TRUE |
| 66230 | 1 | 0 | C349 | No | C349 | | FALSE |
| 66670 | 0 | 0 | C844 | No | C844 | | TRUE |
| 67190 | 0 | 0 | C915 | No | C915 | | TRUE |
| 67220 | 0 | 0 | S069 | No | S069 | W100 | TRUE |
| 67230 | 1 | 0 | C349 | No | C349 | | FALSE |
| 67850 | 0 | 0 | C169 | No | C169 | | TRUE |
| 67860 | 0 | 0 | C341 | No | C341 | | TRUE |
| 68090 | 0 | 0 | R54 | No | R54 | | TRUE |
| 68220 | 0 | 0 | C509 | No | C509 | | TRUE |
| 68610 | 0 | 0 | C220 | No | C220 | | TRUE |
| 68900 | 0 | 0 | I619 | No | I619 | | TRUE |
| 69840 | 0 | 0 | J459 | No | J459 | | TRUE |
| 70200 | 0 | 0 | C509 | No | C509 | | TRUE |
| 70280 | 0 | 0 | C349 | No | C349 | | TRUE |
| 71010 | 0 | 0 | T07 | No | T07 | V234 | TRUE |
| 71080 | 0 | 0 | C220 | No | C220 | | TRUE |
| 71110 | 0 | 1 | M100 | No | M103 | | FALSE |
| 71790 | 1 | 1 | C542 | No | C55 | | TRUE |
| 71880 | 0 | 0 | C259 | No | C259 | | TRUE |
| 73990 | 1 | 1 | J849 | No | C341 | | TRUE |
| 74040 | 0 | 0 | S062 | No | S062 | W130 | TRUE |
| 74210 | 1 | 1 | I620 | No | S065 | X599 | TRUE |
| 74490 | 0 | 0 | R54 | No | R54 | | TRUE |

| | | | | | | | |
|-------|---|---|------|-------|------|------|-------|
| 74630 | 0 | 0 | I258 | No | I258 | | TRUE |
| 74830 | 0 | 0 | I619 | No | I619 | | TRUE |
| 75630 | 0 | 0 | C73 | No | C73 | | TRUE |
| 75670 | 0 | 0 | J849 | No | J849 | | TRUE |
| 75790 | 0 | 0 | C549 | No | C549 | | TRUE |
| 75810 | 0 | 0 | C20 | No | C20 | | TRUE |
| 76080 | 1 | 1 | I48 | MayBe | N189 | | TRUE |
| 76600 | 0 | 0 | C060 | No | C060 | | TRUE |
| 77040 | 0 | 0 | J849 | No | J849 | | TRUE |
| 77050 | 0 | 0 | I609 | No | I609 | | TRUE |
| 77170 | 0 | 0 | C859 | No | C859 | | TRUE |
| 77600 | 0 | 1 | | No | R99 | | FALSE |
| 77660 | 0 | 0 | C349 | No | C349 | | TRUE |
| 77760 | 0 | 0 | F03 | No | F03 | | TRUE |
| 78020 | 0 | 0 | C679 | No | C679 | | TRUE |
| 78230 | 0 | 0 | J42 | No | J42 | | TRUE |
| 78380 | 0 | 0 | R54 | No | R54 | | TRUE |
| 78620 | 0 | 0 | M314 | No | M314 | | TRUE |
| 78850 | 0 | 0 | I219 | No | I219 | | TRUE |
| 79140 | 0 | 0 | C679 | No | C679 | | TRUE |
| 79160 | 0 | 0 | C182 | No | C182 | | TRUE |
| 79240 | 1 | 1 | I692 | No | T179 | W780 | TRUE |
| 79380 | 0 | 0 | C20 | No | C20 | | TRUE |
| 79510 | 0 | 0 | J189 | No | J189 | | TRUE |
| 79960 | 0 | 0 | C169 | No | C169 | | TRUE |
| 80070 | 0 | 0 | J189 | No | J189 | | TRUE |
| 80290 | 0 | 0 | I713 | No | I713 | | TRUE |
| 81070 | 0 | 0 | C169 | No | C169 | | TRUE |
| 81200 | 0 | 0 | S062 | No | S062 | V031 | TRUE |
| 81570 | 0 | 1 | | No | R99 | | FALSE |
| 82010 | 0 | 0 | I249 | No | I249 | | TRUE |
| 82520 | 0 | 0 | I710 | No | I710 | | TRUE |
| 82690 | 0 | 0 | C20 | No | C20 | | TRUE |
| 83000 | 0 | 0 | I340 | No | I340 | | TRUE |
| 83200 | 0 | 0 | C159 | No | C159 | | TRUE |
| 83340 | 0 | 0 | R54 | No | R54 | | TRUE |
| 83460 | 0 | 0 | C169 | No | C169 | | TRUE |
| 83490 | 0 | 0 | T751 | No | T751 | X71 | TRUE |
| 83620 | 0 | 1 | S069 | No | S064 | X808 | FALSE |
| 84320 | 0 | 0 | C240 | No | C240 | | TRUE |
| 84640 | 0 | 0 | C159 | No | C159 | | TRUE |

| | | | | | | | |
|-------|---|---|------|----|------|------|-------|
| 85080 | 1 | 0 | C349 | No | C349 | | FALSE |
| 85160 | 0 | 0 | C64 | No | C64 | | TRUE |
| 85400 | 0 | 1 | C169 | No | C168 | | FALSE |
| 85880 | 0 | 0 | C182 | No | C182 | | TRUE |
| 86240 | 0 | 0 | C187 | No | C187 | | TRUE |
| 86490 | 0 | 0 | C169 | No | C169 | | TRUE |
| 86510 | 1 | 1 | I714 | No | I509 | | TRUE |
| 86940 | 0 | 0 | T751 | No | T751 | W650 | TRUE |
| 87440 | 0 | 0 | I639 | No | I639 | | TRUE |
| 87470 | 0 | 0 | I619 | No | I619 | | TRUE |
| 87600 | 0 | 0 | R54 | No | R54 | | TRUE |
| 88010 | 0 | 0 | C250 | No | C250 | | TRUE |
| 88090 | 1 | 1 | C349 | No | C341 | | TRUE |
| 88110 | 0 | 0 | E142 | No | E142 | | TRUE |
| 88180 | 0 | 0 | C180 | No | C180 | | TRUE |
| 88190 | 0 | 0 | I509 | No | I509 | | TRUE |
| 88310 | 0 | 0 | I619 | No | I619 | | TRUE |
| 88480 | 1 | 1 | C189 | No | C187 | | TRUE |
| 89010 | 1 | 0 | C189 | No | C189 | | FALSE |
| 89190 | 0 | 0 | C20 | No | C20 | | TRUE |
| 89510 | 0 | 0 | T751 | No | T751 | W69 | TRUE |
| 90020 | 0 | 0 | C509 | No | C509 | | TRUE |
| 90090 | 0 | 0 | T751 | No | T751 | W650 | TRUE |
| 90350 | 0 | 0 | I509 | No | I509 | | TRUE |
| 90670 | 0 | 0 | I219 | No | I219 | | TRUE |
| 91180 | 0 | 0 | C20 | No | C20 | | TRUE |
| 91220 | 1 | 1 | S141 | No | S197 | X800 | TRUE |
| 91950 | 0 | 0 | C679 | No | C679 | | TRUE |
| 92080 | 0 | 0 | E669 | No | E669 | | TRUE |
| 92880 | 0 | 0 | C180 | No | C180 | | TRUE |
| 93070 | 0 | 0 | D619 | No | D619 | | TRUE |
| 93270 | 0 | 0 | C509 | No | C509 | | TRUE |
| 93500 | 0 | 0 | C159 | No | C159 | | TRUE |
| 93600 | 0 | 1 | C20 | No | C349 | | FALSE |
| 93610 | 0 | 0 | J42 | No | J42 | | TRUE |
| 93710 | 0 | 0 | I509 | No | I509 | | TRUE |
| 94030 | 1 | 0 | C189 | No | C189 | | FALSE |
| 94080 | 0 | 1 | J841 | No | J849 | | FALSE |
| 94090 | 0 | 0 | C719 | No | C719 | | TRUE |
| 94910 | 0 | 0 | T751 | No | T751 | W650 | TRUE |
| 95890 | 0 | 0 | T751 | No | T751 | W650 | TRUE |

| | | | | | | | |
|--------|---|---|------|----|------|------|-------|
| 95930 | 0 | 0 | I219 | No | I219 | | TRUE |
| 96600 | 0 | 0 | J189 | No | J189 | | TRUE |
| 97280 | 0 | 0 | C169 | No | C169 | | TRUE |
| 97330 | 1 | 0 | C189 | No | C189 | | FALSE |
| 97720 | 0 | 0 | M318 | No | M318 | | TRUE |
| 97890 | 0 | 0 | I219 | No | I219 | | TRUE |
| 98480 | 0 | 0 | I500 | No | I500 | | TRUE |
| 98640 | 0 | 0 | C169 | No | C169 | | TRUE |
| 98650 | 0 | 1 | E149 | No | E144 | | FALSE |
| 98700 | 0 | 0 | I219 | No | I219 | | TRUE |
| 98950 | 0 | 0 | B181 | No | B181 | | TRUE |
| 99160 | 0 | 0 | C169 | No | C169 | | TRUE |
| 99400 | 0 | 0 | F03 | No | F03 | | TRUE |
| 99850 | 0 | 0 | C182 | No | C182 | | TRUE |
| 100850 | 1 | 0 | C349 | No | C349 | | FALSE |
| 101250 | 0 | 0 | C169 | No | C169 | | TRUE |
| 101320 | 0 | 0 | I490 | No | I490 | | TRUE |
| 101490 | 0 | 0 | C20 | No | C20 | | TRUE |
| 101890 | 0 | 0 | C679 | No | C679 | | TRUE |
| 102440 | 0 | 0 | I509 | No | I509 | | TRUE |
| 102660 | 0 | 0 | C56 | No | C56 | | TRUE |
| 102980 | 0 | 0 | C240 | No | C240 | | TRUE |
| 102990 | 0 | 1 | D150 | No | C37 | | FALSE |
| 103280 | 0 | 0 | R54 | No | R54 | | TRUE |
| 103290 | 0 | 0 | R54 | No | R54 | | TRUE |
| 104050 | 0 | 0 | R54 | No | R54 | | TRUE |
| 104180 | 0 | 0 | I219 | No | I219 | | TRUE |
| 104870 | 0 | 0 | C20 | No | C20 | | TRUE |
| 105230 | 0 | 0 | C162 | No | C162 | | TRUE |
| 105310 | 0 | 0 | C240 | No | C240 | | TRUE |
| 105590 | 0 | 0 | S299 | No | S299 | X80 | TRUE |
| 105790 | 0 | 1 | C169 | No | C160 | | FALSE |
| 106570 | 0 | 0 | I691 | No | I691 | | TRUE |
| 106830 | 0 | 0 | I350 | No | I350 | | TRUE |
| 108180 | 1 | 1 | K859 | No | K851 | | TRUE |
| 108640 | 0 | 0 | I509 | No | I509 | | TRUE |
| 108970 | 0 | 0 | D469 | No | D469 | | TRUE |
| 109160 | 0 | 0 | I259 | No | I259 | | TRUE |
| 109240 | 1 | 1 | C189 | No | C187 | | TRUE |
| 109790 | 0 | 0 | S141 | No | S141 | V051 | TRUE |
| 110530 | 0 | 0 | I619 | No | I619 | | TRUE |

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|--------|---|---|------|----|------|------|-------|
| 110600 | 0 | 0 | I609 | No | I609 | | TRUE |
| 110850 | 0 | 1 | C169 | No | C162 | | FALSE |
| 110860 | 0 | 1 | I48 | No | I630 | | FALSE |
| 110960 | 1 | 1 | G309 | No | J189 | | TRUE |
| 111300 | 0 | 0 | S099 | No | S099 | X599 | TRUE |
| 111820 | 0 | 0 | I619 | No | I619 | | TRUE |
| 111850 | 0 | 0 | R54 | No | R54 | | TRUE |
| 111960 | 0 | 0 | I200 | No | I200 | | TRUE |
| 112090 | 0 | 0 | I693 | No | I693 | | TRUE |
| 112170 | 0 | 0 | J189 | No | J189 | | TRUE |
| 112290 | 0 | 0 | C480 | No | C480 | | TRUE |
| 112460 | 0 | 0 | R54 | No | R54 | | TRUE |
| 112580 | 0 | 0 | T07 | No | T07 | W110 | TRUE |
| 112590 | 0 | 0 | I639 | No | I639 | | TRUE |
| 112820 | 0 | 0 | N390 | No | N390 | | TRUE |
| 113080 | 0 | 0 | C221 | No | C221 | | TRUE |
| 114210 | 0 | 0 | G20 | No | G20 | | TRUE |
| 114330 | 1 | 1 | C189 | No | C184 | | TRUE |
| 114710 | 0 | 0 | C220 | No | C220 | | TRUE |
| 114940 | 1 | 0 | C19 | No | C19 | | FALSE |
| 115060 | 0 | 0 | I48 | No | I48 | | TRUE |
| 115200 | 0 | 0 | C240 | No | C240 | | TRUE |
| 115830 | 0 | 0 | J189 | No | J189 | | TRUE |
| 116100 | 0 | 0 | C679 | No | C679 | | TRUE |
| 116600 | 0 | 0 | C169 | No | C169 | | TRUE |
| 117110 | 0 | 0 | I509 | No | I509 | | TRUE |
| 117500 | 0 | 0 | C65 | No | C65 | | TRUE |
| 118400 | 0 | 0 | C220 | No | C220 | | TRUE |
| 118500 | 0 | 0 | K746 | No | K746 | | TRUE |
| 118690 | 0 | 0 | A162 | No | A162 | | TRUE |
| 118740 | 0 | 0 | C23 | No | C23 | | TRUE |
| 118800 | 0 | 0 | C549 | No | C549 | | TRUE |
| 119610 | 0 | 0 | D329 | No | D329 | | TRUE |
| 119640 | 1 | 1 | I259 | No | I249 | | TRUE |
| 119710 | 0 | 1 | I619 | No | I509 | | FALSE |
| 119990 | 0 | 0 | S099 | No | S099 | X808 | TRUE |
| 120020 | 0 | 0 | G301 | No | G301 | | TRUE |
| 120230 | 0 | 0 | K255 | No | K255 | | TRUE |
| 120280 | 0 | 0 | J189 | No | J189 | | TRUE |
| 121010 | 0 | 0 | C20 | No | C20 | | TRUE |
| 121450 | 0 | 0 | T751 | No | T751 | W65 | TRUE |