

# Summary of Changes

**HRG4+ 2021/22 Consultation Grouper  
from:**

**HRG4+ 2020/21 Local Payment Grouper v2**



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## Purpose

The purpose of this summary is to provide an overview of the main changes between the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) and the HRG4+ 2021/22 Consultation Grouper.

Changes are broken down by:

- **Grouper Input Changes**
- **Grouper Output Changes**
- **Grouper Software Changes**
- **HRG Design Changes**

This document also includes a high-level description of design changes by subchapter as well as HRG distribution by subchapter, in Appendix A.

This document is intended as a high-level summary to be used to form the basis of further analysis and investigation rather than as a comprehensive list of all differences between grouper releases. Further HRG4+ supporting documentation is available from the National Casemix Office website:

<https://digital.nhs.uk/services/national-casemix-office/downloads-groupers-and-tools/payment-groupers>.

## Changes to the HRG4+ Grouper

The following changes have been implemented between the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) and the HRG4+ 2021/22 Consultation Grouper.

### Grouper Input Changes

There were no changes to the inputs of the Grouper between the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) and the HRG4+ 2021/22 Consultation Grouper.

### Grouper Output Changes

There were no changes to the outputs of the Grouper between the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) and the HRG4+ 2021/22 Consultation Grouper.

### Grouper Software Changes

There were no changes to the software of the Grouper between the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) and the HRG4+ 2021/22 Consultation Grouper.

### Grouper Algorithm Changes

There were no changes to the algorithm of the Grouper between the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) and the HRG4+ 2021/22 Consultation Grouper.

## HRG Design Changes

### Update of base design

The design base for the HRG4+ 2021/22 Consultation Grouper is the 2020/21 Local Payment Grouper Version 2 (COVID-19), which is itself based on the HRG4+ 2016/17 Reference Costs design, updated to include both the 4.8 and 4.9 update to the OPCS Classification of Interventions and Procedures Version 4, which came into effect in April 2017 and April 2020, respectively.

In November 2020, the coding guidance issued by the World Health Organisation (WHO) with regard to the recording of COVID-19 infection-related disorders was updated. As a result, national coding guidance from the Clinical Classifications Service has also been amended, and hence the Casemix design, which relies on the 5<sup>th</sup> Edition of ICD-10 (International Statistical Classification of Diseases and Related Health Problems 10<sup>th</sup> Revision), needed to be changed.

The Grouper has therefore been updated to reflect changes in national coding guidance relating to the COVID-19 infection-related disorders.

The three emergency use codes have also been renamed as follows:

#### **U07.3 Personal history of COVID-19**

This code is expected to be used in a secondary diagnosis position to record an earlier episode of COVID-19, as documented in the notes as either confirmed or probable and that influences the person's health status, and the person is no longer suffering from COVID-19. This ICD-10 code is not to be used in the primary position.

#### **U07.4 Post COVID-19 condition**

This code is expected to be recorded secondary to the condition that is post COVID-19. This code serves to allow the establishment of a link with COVID-19 where it is documented. This ICD-10 code is not to be used where the patient is still presenting with a COVID-19 infection.

#### **U07.5 Multisystem inflammatory syndrome associated with COVID-19**

This ICD-10 code is expected to be recorded in a secondary position to the active COVID-19 diagnosis codes for patients that present with or develop this condition.

The updated national coding guidance can be found here:

[https://hscic.kahootz.com/connect.ti/t\\_c\\_home/view?objectId=19099248#19099248](https://hscic.kahootz.com/connect.ti/t_c_home/view?objectId=19099248#19099248)

### Change to the number of HRGs

There has been no change to the number of HRGs. Therefore, the number of HRGs in the HRG4+ 2021/22 Consultation Grouper is the same as in the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19) at 2,838.

### Accommodation of updates to ICD-10 Emergency Use Codes

The HRG design has been updated to accommodate the use of emergency use ICD-10 codes.

The following code descriptions have been updated:

***U07.3 Personal history of COVID-19***

***U07.4 Post COVID-19 condition***

***U07.5 Multisystem inflammatory syndrome associated with COVID-19***

In addition, these three codes have been appropriately accommodated in the HRG design according to the condition that they now represent.

**U07.3 Personal history of COVID-19**

This code has been remapped from HRG root **WH15 Special Screening, Examinations or Other Genetic Disorders** (adult patients) and HRG root **PX57 Paediatric, Examination, Follow-up, Special Screening or Other Admissions** (child patients) to **UZ01Z Data Invalid for Grouping** as, according to national clinical coding standards, this code is not permitted to be used as a primary diagnosis, as per most similar code **Z86.1 Personal history of infectious and parasitic diseases**.

When recorded as a primary diagnosis it will generate error code **UZ01 Invalid Primary Diagnosis: 1. Primary Diagnosis doesn't exist or 2. Primary Diagnosis Blank or 3. Diagnosis can't be used at primary position**.

This code has not been added to any complications and comorbidity lists as per clinical advice.

This code has been remapped to base PBC category, **PBC0201X Infectious Diseases**.

**U07.4 Post COVID-19 condition**

This code has not been remapped and retains mapping to HRG root **WH15 Special Screening, Examinations or Other Genetic Disorders** in adults and HRG root **PX57 Paediatric, Examination, Follow-up, Special Screening or Other Admissions** for children, based on clinical advice.

This code has not been added to any complications and comorbidity lists as per clinical advice.

This code remains mapped to base PBC **PBC0223X Other**.

**U07.5 Multisystem inflammatory syndrome associated with COVID-19**

This code has been remapped from HRG root **WH15 Special Screening, Examinations or Other Genetic Disorders** to HRG root **WJ06 Sepsis** in adults, and HRG roots **PW16 Paediatric Major Infections** in children and **PM45 Paediatric Febrile Neutropenia with Malignancy** in children with an additional diagnosis of cancer and agranulocytosis. This matches the mapping of the ICD-10 code in use for this disorder before the introduction of this emergency use code; **R65.0 Systemic Inflammatory Response Syndrome of infectious origin without organ failure**. As per **R65.0 Systemic Inflammatory Response Syndrome of infectious origin without organ failure** this code has been added to the paediatric, burns and adult infectious diseases complications and co-morbidities lists and the **DX\_Major**, major manifestations of COVID-19 list.

This code has been remapped to base PBC category, **PBC0201X Infectious Diseases**.

## **Changes to Best Practice**

There have been no updates to Best Practice.

## Appendix A: HRG Distribution by Subchapter

The following table includes a high-level description of design changes implemented in the HRG4+ 2021/22 Consultation Grouper by subchapter compared to the HRG4+ 2020/21 Local Payment Grouper Version 2 (COVID-19).

Changes made to the design of one HRG subchapter may have a significant impact on HRG grouping within other subchapters. This is especially true where changes have been made to procedure hierarchy values. Likewise, global design changes may impact HRG grouping within a subchapter even where no changes have been made to the subchapter itself.

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
AA Nervous System Procedures and Disorders	101	101	No change to HRG number or labels
AB Pain Management	13	13	No change to HRG number or labels
BZ Eyes and Periorbita Procedures and Disorders	94	94	No change to HRG number or labels
CA Ear, Nose, Mouth, Throat and Neck Procedures	120	120	No change to HRG number or labels
CB Ear, Nose, Mouth, Throat and Neck Disorders	12	12	No change to HRG number or labels
CD Dental and Orthodontic Procedures	23	23	No change to HRG number or labels
DX COVID-19 Infection	6	6	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the major manifestations list, <b>DX_Major</b> .
DZ Respiratory System Procedures and Disorders	176	176	No change to HRG number or labels

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
EB Cardiac Disorders	48	48	No change to HRG number or labels
EC Open and Interventional Procedures for Congenital Heart Disease	21	21	No change to HRG number or labels
ED Open Cardiac Procedures for Acquired Conditions	48	48	No change to HRG number or labels
EY Interventional Cardiology for Acquired Conditions	65	65	No change to HRG number or labels
FD Digestive System Disorders	54	54	No change to HRG number or labels
FE Digestive System Endoscopic Procedures	37	37	No change to HRG number or labels
FF Digestive System Open and Laparoscopic Procedures	112	112	No change to HRG number or labels
GA Hepatobiliary and Pancreatic System Open and Laparoscopic Procedures	27	27	No change to HRG number or labels
GB Hepatobiliary and Pancreatic System Endoscopic Procedures	14	14	No change to HRG number or labels
GC Hepatobiliary and Pancreatic System Disorders	24	24	No change to HRG number or labels
HC Spinal Procedures and Disorders	74	74	No change to HRG number or labels

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
HD Musculoskeletal and Rheumatological Disorders	35	35	No change to HRG number or labels
HE Orthopaedic Disorders	84	84	No change to HRG number or labels
HN Orthopaedic Non-Trauma Procedures	111	111	No change to HRG number or labels
HT Orthopaedic Trauma Procedures	87	87	No change to HRG number or labels
JA Breast Procedures and Disorders	35	35	No change to HRG number or labels
JB Burns Procedures and Disorders	38	38	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>JB_CC</b> .
JC Skin Procedures	12	12	No change to HRG number or labels
JD Skin Disorders	10	10	No change to HRG number or labels
KA Endocrine System Disorders	18	18	No change to HRG number or labels
KB Diabetic Medicine	12	12	No change to HRG number or labels
KC Metabolic Disorders	9	9	No change to HRG number or labels
LA Renal Procedures and Disorders	48	48	No change to HRG number or labels
LB Urological and Male Reproductive System Procedures and Disorders	149	149	No change to HRG number or labels

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
LD Renal Dialysis for Chronic Kidney Disease	26	26	No change to HRG number or labels
LE Renal Dialysis for Acute Kidney Injury	4	4	No change to HRG number or labels
MA Female Reproductive System Procedures	48	48	No change to HRG number or labels
MB Female Reproductive System Disorders	17	17	No change to HRG number or labels
MC Assisted Reproduction Medicine	11	11	No change to HRG number or labels
NZ Obstetric Medicine	55	55	No change to HRG number or labels
PB Neonatal Disorders	20	20	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PB_CC</b> .
PC Paediatric Ear Nose and Throat Disorders	4	4	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PC_CC</b> .
PD Paediatric Respiratory Disorders	24	24	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PD_CC</b> .
PE Paediatric Cardiology Disorders	12	12	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PE_CC</b> .

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
PF Paediatric Gastroenterology Disorders	17	17	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PF_CC</b> .
PG Paediatric Hepatobiliary Disorders	3	3	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PG_CC</b> .
PH Paediatric Rheumatology Disorders	4	4	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PH_CC</b> .
PJ Paediatric Dermatology Disorders	7	7	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PJ_CC</b> .
PK Paediatric Diabetology, Endocrinology and Metabolic Disorders	11	11	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PK_CC</b> .
PL Paediatric Renal Disorders	10	10	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PL_CC</b> .
PM Paediatric Haematological-Oncology Disorders	14	14	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been remapped from HRG root <b>PX57 Paediatric, Examination, Follow-up, Special Screening or Other Admissions</b> to <b>PW16 Paediatric Major Infections</b> for patients 18 years and under and to <b>PM45 Paediatric Febrile Neutropenia with Malignancy</b> for patients 18 and under where an additional diagnosis of cancer and agranulocytosis is recorded. <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PM_CC</b> , and the lists associated with the generation of HRG root <b>PM45 Paediatric Febrile Neutropenia with Malignancy</b> , <b>PM_Canc_Inf_Neut</b> and <b>PM_Infection</b> .

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
PN Paediatric Non-Malignant Haematological Disorders	9	9	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PN_CC</b> .
PP Paediatric Ophthalmic Disorders	2	2	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PP_CC</b> .
PQ Paediatric Immune System Disorders	2	2	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PQ_CC</b> .
PR Paediatric Nervous System Disorders	22	22	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PR_CC</b> .
PT Paediatric Mental Health Disorders	4	4	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PT_CC</b> .
PV Paediatric Trauma Medicine	7	7	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PV_CC</b> .
PW Paediatric Infectious Diseases	15	15	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been remapped from HRG root <b>PX57 Paediatric, Examination, Follow-up, Special Screening or Other Admissions to PW16 Paediatric Major Infections</b> for patients 18 years and under and to <b>PM45 Paediatric Febrile Neutropenia with Malignancy</b> for patients 18 and under where an additional diagnosis of cancer and agranulocytosis is recorded. <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PW_CC</b> .

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
PX Paediatric Medicine	46	46	<p>No change to HRG number or labels</p> <p><b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been remapped from HRG root <b>PX57 Paediatric, Examination, Follow-up, Special Screening or Other Admissions</b> to <b>PW16 Paediatric Major Infections</b> for patients 18 years and under and to <b>PM45 Paediatric Febrile Neutropenia with Malignancy</b> for patients 18 and under where an additional diagnosis of cancer and agranulocytosis is recorded.</p> <p><b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>PX_CC</b>.</p>
RD Diagnostic Imaging Procedures	47	47	No change to HRG number or labels
RN Nuclear Medicine Procedures	69	69	No change to HRG number or labels
SA Haematological Procedures and Disorders	104	104	No change to HRG number or labels
SB Chemotherapy	18	18	No change to HRG number or labels
SC Radiotherapy	30	30	No change to HRG number or labels
SD Specialist Palliative Care	10	10	No change to HRG number or labels
UZ Undefined Groups	1	1	<p>No change to HRG number or labels</p> <p><b>U07.3 Personal history of COVID-19</b> has been remapped from HRG root <b>WH15 Special Screening, Examinations or Other Genetic Disorders</b> (adult patients) and HRG root <b>PX57 Paediatric, Examination, Follow-up, Special Screening or Other Admissions</b> (child patients) to <b>UZ01 Data Invalid for Grouping</b> as, according to national clinical coding standards, this code is not permitted to be used as a primary diagnosis.</p>
VA Multiple Trauma	24	24	No change to HRG number or labels
VB Emergency Medicine	12	12	No change to HRG number or labels

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
VC Rehabilitation	23	23	No change to HRG number or labels
WD Treatment of Mental Health Patients by Non-Mental Health Service Providers	9	9	No change to HRG number or labels
WF Non-admitted Consultations	8	8	No change to HRG number or labels
WH Poisoning, Toxic Effects, Special Examinations, Screening and Other Healthcare Contacts	68	68	No change to HRG number or labels <b>U07.3 Personal history of COVID-19</b> has been remapped from HRG root <b>WH15 Special Screening, Examinations or Other Genetic Disorders</b> to <b>UZ01 Data Invalid for Grouping</b> as, according to national clinical coding standards, this code is not permitted to be used as a primary diagnosis. <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been remapped from HRG root <b>WH15 Special Screening, Examinations or Other Genetic Disorders</b> to HRG root <b>WJ06 Sepsis</b> for adult patients.
WJ Infectious Diseases and Immune System Disorders	38	38	No change to HRG number or labels <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been remapped from HRG root <b>WH15 Special Screening, Examinations or Other Genetic Disorders</b> to HRG root <b>WJ06 Sepsis</b> for adult patients. <b>U07.5 Multisystem inflammatory syndrome associated with COVID-19</b> has been added to the complications and comorbidities list for this subchapter, <b>WJ_CC</b> .
XA Neonatal Critical Care	6	6	No change to HRG number or labels
XB Paediatric Critical Care	9	9	No change to HRG number or labels
XC Adult Critical Care	7	7	No change to HRG number or labels
XD High Cost Drugs	58	58	No change to HRG number or labels
YA Neurological Imaging Interventions	11	11	No change to HRG number or labels

Subchapter	C21/22	P20/21 v2 (July 2020)	Comment
YD Thoracic Imaging Interventions	5	5	No change to HRG number or labels
YF Gastrointestinal Imaging Interventions	8	8	No change to HRG number or labels
YG Hepatobiliary and Pancreatic Imaging Interventions	16	16	No change to HRG number or labels
YH Musculoskeletal Imaging Interventions	8	8	No change to HRG number or labels
YJ Breast Imaging Interventions	12	12	No change to HRG number or labels
YL Urological Imaging Interventions	8	8	No change to HRG number or labels
YQ Vascular Open Procedures and Disorders	60	60	No change to HRG number or labels
YR Vascular Imaging Interventions	58	58	No change to HRG number or labels

## The Documentation Suite

Below is a list of the various documents which are available to download from the National Casemix Office website: <https://digital.nhs.uk/services/national-casemix-office/downloads-grouper-and-tools>.

This documentation suite provides a comprehensive resource intended to help users understand HRG design concepts and logic as well as use the Grouper.

- The **Casemix Companion** is a starting point and general reference guide for anyone interested in learning about the casemix classification system used by the NHS in England. This document provides an introduction to HRGs, groupers, HRG4+ design concepts and grouping logic, and it contains links to additional resources.
- The **Grouper User Manual** provides instructions on how to prepare and group data using the Grouper software application. Sample data with expected results is provided. This document is updated with every grouper release.
- The **Summary of Changes** document provides an overview of the main differences between the current grouper design and its relevant predecessor.
- The **Chapter Summaries** document provides an overview of the scope, composition and relevant grouping logic of individual HRG subchapters, and it highlights significant changes made in the latest HRG design.
- The **Code to Group Workbook** is an Excel workbook that embodies the casemix design. It provides details of the constituent elements that contribute to HRG grouping, and it contains reference data such as the ICD-10 and OPCS-4 codes utilised in the design, the procedure and diagnosis hierarchies pertinent to a specific design, and the Complication and Comorbidities (CC) lists for HRG subchapters. The workbook also includes information on Programme Budgeting Category (PBC) mapping as well as a comprehensive list of HRG codes and labels.