

Briefing Note for Member Forum, Editorial AG, Content Managers AG, Modeling AG, Clinical Leads and Community of Practice

25 November 2025

Aligning with Chronic Kidney Disease staging: Inactivation of outdated 'end-stage renal disease' concepts

Version 1.0

For information only

Background

The terminology and classification of chronic kidney disease (CKD) have evolved over the years. The first formal CKD staging system was published in 2002 by the National Kidney Foundation through its Kidney Disease Outcomes Quality Initiative, establishing the Glomerular filtration rate-based classification of five stages. This framework was further endorsed with updates in 2004, 2012 and 2024.

Issues/problem statement

46177005 |End stage renal disease (disorder)| has existed in SNOMED CT since the first publication in 2002 as a subconcept of renal failure syndrome. The CKD stages were added in SNOMED CT in 2008. 433146000 |Chronic kidney disease stage 5 (disorder)| is the final stage of CKD.

The code for "End stage kidney disease" is thought to have originated from READ codes, specifically K05., K050., and K0D... These codes, which were added between 1991 and 1997, referred to "Chronic renal failure", "End stage renal failure", or "End stage renal disease" and were derived from ICD-9 codes. Consequently, older data predating 2002, and some post-2002 data, could lack the precise diagnostic criteria now used for CKD 5. While the two codes are likely clinically equivalent for new and future data, this equivalence does not extend to legacy data.

These codes indicate the need for renal replacement therapies, e.g. dialysis or kidney transplant. The presence of two codes creates a potential for analytical discrepancies should either or both codes be utilized.

Proposed solution

The solution is to inactivate 46177005 |End stage renal disease (disorder)| as “outdated” and to be replaced by 433146000 |Chronic kidney disease stage 5 (disorder)|. The terms “End stage renal disease” and “End stage renal failure” can be added as synonyms for 433146000 |Chronic kidney disease stage 5 (disorder)|.

The same approach (inactivation of concept and adding terms as synonyms to active concepts) will be taken for the 15 descendants of “End stage renal disease” (listed in the following table). They will be consolidated with the descendants of the stage 5 CKD.

Concept	Action	Target
368471000119109 End stage renal disease on dialysis due to drug induced diabetes mellitus (disorder)	Inactivate as “outdated” and replace it by a new concept xxxxxxx Chronic kidney disease stage 5 on dialysis due to drug induced diabetes mellitus (disorder) that is under 368461000119103 Chronic kidney disease stage 5 due to drug induced diabetes mellitus (disorder) and 714152005 Chronic kidney disease stage 5 on dialysis (disorder)	xxxxxxx Chronic kidney disease stage 5 on dialysis due to drug induced diabetes mellitus (disorder)
286371000119107 Malignant hypertensive end stage renal disease on dialysis (disorder)	Inactivate as “outdated” and replace it by a new concept xxxxxx Malignant hypertensive chronic kidney disease stage 5 on dialysis (disorder) that is under 714152005 Chronic kidney disease stage 5 on dialysis (disorder) and 153851000119106 Malignant hypertensive chronic kidney disease stage 5 (disorder)	xxxxxxx Malignant hypertensive chronic kidney disease stage 5 on dialysis (disorder)

Concept	Action	Target
285841000119104 Malignant hypertensive end stage renal disease (disorder)	Inactivate as “outdated” and replace it by 153851000119106	153851000119106 Malignant hypertensive chronic kidney disease stage 5 (disorder)
153891000119101 End stage renal disease on dialysis due to hypertension (disorder)	Inactivate as “outdated” and replace it by a new concept xxxxxxxx Chronic kidney disease stage 5 due to hypertension on dialysis (disorder) that is under 129161000119100 Chronic kidney disease stage 5 due to hypertension (disorder) and 714152005 Chronic kidney disease stage 5 on dialysis (disorder)	xxxxxxx Chronic kidney disease stage 5 on dialysis due to hypertension (disorder)
128001000119105 Hypertension concurrent and due to end stage renal disease on dialysis due to type 1 diabetes mellitus (disorder)	Inactivate as “outdated” and replace it by a new concept xxxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis due to type 1 diabetes mellitus (disorder) that is under 1332467008 Hypertension in chronic kidney disease stage 5 due to type 1 diabetes mellitus (disorder) and xxxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis (disorder)	xxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis due to type 1 diabetes mellitus (disorder)
127991000119101 Hypertension concurrent and due to end stage renal disease on dialysis due to type 2 diabetes mellitus (disorder)	Inactivate as “outdated” and replace it by a new concept xxxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis due to type 2 diabetes mellitus (disorder) that is under 140101000119109 Hypertension in chronic kidney disease stage 5 due to type 2 diabetes mellitus (disorder) and xxxxxxxx Hypertension in chronic	xxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis due to type 2 diabetes mellitus (disorder)

Concept	Action	Target
	kidney disease stage 5 on dialysis (disorder)	
111411000119103 End stage renal disease due to hypertension (disorder)	Inactivate as “outdated” and replace it by 129161000119100	129161000119100 Chronic kidney disease stage 5 due to hypertension (disorder)
90791000119104 End stage renal disease on dialysis due to type 2 diabetes mellitus (disorder)	Inactivate as “outdated” and replace it by new concept xxxxxxx Chronic kidney disease stage 5 on dialysis due to type 2 diabetes mellitus (disorder) that is under 714152005 Chronic kidney disease stage 5 on dialysis (disorder) and 711000119100 Chronic kidney disease stage 5 due to type 2 diabetes mellitus (disorder)	xxxxxxx Chronic kidney disease stage 5 on dialysis due to type 2 diabetes mellitus (disorder)
90771000119100 End stage renal disease on dialysis due to type 1 diabetes mellitus (disorder)	Inactivate as “outdated” and replace it by new concept xxxxxxx Chronic kidney disease stage 5 on dialysis due to type 1 diabetes mellitus (disorder) that is under 714152005 Chronic kidney disease stage 5 on dialysis (disorder) and 90761000119106 Chronic kidney disease stage 5 due to type 1 diabetes mellitus (disorder)	xxxxxxx Chronic kidney disease stage 5 on dialysis due to type 1 diabetes mellitus (disorder)
712487000 End stage renal disease due to benign hypertension (disorder)	Inactivate as “outdated” and replace it by 285011000119108	285011000119108 Chronic kidney disease stage 5 due to benign hypertension (disorder)
707324008 Anemia co-occurrent and due to end stage renal disease (disorder)	Inactivate as “outdated” and replace it by 691411000119101	691411000119101 Anemia due to chronic kidney disease stage 5 (disorder)

Concept	Action	Target
704667004 Hypertension concurrent and due to end stage renal disease on dialysis (disorder)	Inactivate as “outdated” and replace it by new concept xxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis (disorder) that is under 38341003 Hypertensive disorder, systemic arterial (disorder) and 714152005 Chronic kidney disease stage 5 on dialysis (disorder) and 128292002 Chronic disease of cardiovascular system (disorder)	xxxxxxx Hypertension in chronic kidney disease stage 5 on dialysis (disorder)
236436003 End stage renal failure with renal transplant (disorder)	Inactivate as “outdated” and replace it by 714153000	714153000 Chronic kidney disease stage 5 with renal transplant (disorder)
236435004 End stage renal failure on dialysis (disorder)	Inactivate as “outdated” and replace it by 714152005	714152005 Chronic kidney disease stage 5 on dialysis (disorder)
236434000 End stage renal failure without renal replacement therapy (disorder)	Inactivate as “outdated” and replace it by new concept xxxxxxx Chronic kidney disease stage 5 without renal replacement therapy (disorder) that is under 433146000 Chronic kidney disease stage 5 (disorder)	xxxxxxx Chronic kidney disease stage 5 without renal replacement therapy (disorder)

Impact to content users

46177005 |End-stage renal disease (disorder)| and its 15 subconcepts will be inactivated and replaced by existing concepts or new concepts under 433146000 |Chronic kidney disease stage 5 (disorder)|.

The proposal has been consulted with key stakeholders - specifically, the U.S.’s Convergent Medical Terminology (CMT), the U.K.’s National Health Service (NHS), and the Europe Renal Association, - and subsequently finalized incorporating their valuable feedback.

The impact on analytics can be minimised by using the ECL query with history, For example, << 433146000 |Chronic kidney disease stage 5 (disorder)| {{ + HISTORY-MOD }} will return the inactivated 46177005 |End-stage renal disease (disorder)| and its subconcepts. The ECL << 433146000 |Chronic kidney disease stage 5 (disorder)| can be used strictly for CKD stages.

The related concepts 153611000112104 |End stage organ failure (disorder)| and 90688005 |Chronic renal failure syndrome (disorder)| will be reviewed and addressed separately.

Next Steps

The changes listed in the proposed solution section will be implemented in SNOMED CT for the international release.

Release date

The target is to release the changes in early 2026.

Approvals	Date	Name
Chief Terminologist	Nov 24, 2025	James T. Case
Director of Content and Mapping	Nov 24, 2025	Monica Harry
CSRM representative	Nov 24, 2025	Kelly Kuru

Yongsheng Gao, 2025-09-24