

Appendix 1. Initial string match terms used to code imaging records

Imaging region strings	X-ray strings	MRI strings	CT strings	Ultrasound strings
Knee				
KNEE KN BOTH K* Exclude: KNOW KNIGHT	X-RAY KN X-RAY RIGHT KN X-RAY LEFT KN XRAY KN XRAY RIGHT KN XRAY LEFT KN XR KN XR RIGHT KN XR LEFT KN PLAIN FILM KN PLAIN FILM RIGHT KN PLAIN FILM LEFT KN RADIOGRAPH KN RADIOGRAPH RIGHT KN RADIOGRAPH LEFT KN KNEE X KNEE RADIOGR KNEE PLAIN FILM	MRI KN MRI RIGHT KN MRI LEFT KN MR KN MR RIGHT KN MR LEFT KN MAGNETIC RESONANCE KN MAGNETIC RESONANCE RIGHT KN MAGNETIC RESONANCE LEFT KN KNEE MR KNEE MAGNETIC	CT KN CT RIGHT KN CT LEFT KN KNEE CT	US KN US RIGHT KN US LEFT KN ULTRASOUND KN ULTRASOUND RIGHT KN ULTRASOUND LEFT KN KNEE US KNEE ULT
Shoulder				
SHOULDER SH CLAVICLE* Exclude: SHBG TSH SHEET FSH GSHS	X-RAY SH X-RAY RIGHT SH X-RAY LEFT SH XRAY SH XRAY RIGHT SH XRAY LEFT SH XR SH XR RIGHT SH XR LEFT SH PLAIN FILM SH	MRI SH MRI RIGHT SH MRI LEFT SH MR SH MR RIGHT SH MR LEFT SH MAGNETIC RESONANCE SH MAGNETIC RESONANCE RIGHT SH MAGNETIC RESONANCE LEFT SH SHOULDER MR	CT SH CT RIGHT SH CT LEFT SH SHOULDER CT	US SH US RIGHT SH US LEFT SH ULTRASOUND SH ULTRASOUND RIGHT SH ULTRASOUND LEFT SH SHOULDER US SHOULDER ULT

PSH SH/	PLAIN FILM RIGHT SH PLAIN FILM LEFT SH RADIOGRAPH SH RADIOGRAPH RIGHT SH RADIOGRAPH LEFT SH SHOULDER X SHOULDER RADIOGR SHOULDER PLAIN FILM	SHOULDER MAGNETIC		
Neck				
NECK NEC CERVIC C1 C2 C3 C4 C5 C6 C7 C SPINE SPINE CX*	X-RAY NECK XRAY NECK XR NECK X-RAY CERVICAL XRAY CERVICAL XR CERVICAL PLAIN FILM NECK PLAIN FILM CERVICAL RADIOGRAPH NECK RADIOGRAPH CERVICAL NECK X CERVICAL X NECK PLAIN FILM CERVICAL PLAIN FILM NECK RADIOGRAPH CERVICAL RADIOGRAPH	MRI NECK MR NECK MRI CERVICAL MR CERVICAL NECK MR CERVICAL MR	CT NECK CT CERVICAL NECK CT CERVICAL CT	US NECK US CERVICAL ULTRASOUND NECK ULTRASOUND CERVICAL NECK US CERVICAL US NECK ULT CERVICAL ULT
Low back				
LUMB SACR L1 L2 L3 L4 L5	X-RAY LUMB XRAY LUMB XR LUMB X-RAY SACR XRAY SACR XR SACR PLAIN FILM LUMB	MRI LUMB MR LUMB MRI SACR MR SACR LUMBAR MR SACRAL MR	CT LUMB CT SACR LUMBAR CT SACRAL CT	US LUMB ULTRASOUND LUMB US SACR ULTRASOUND SACR LUMBAR US LUMBAR ULT SACRAL US

LOWER BACK Exclude: FUNGAL2	PLAIN FILM SACR RADIOGRAPH LUMB RADIOGRAPH SACR LUMBAR X LUMBAR RADIOGRAPH LUMBAR PLAIN FILM SACRAL X SACRAL RADIOGRAPH SACRAL PLAIN FILM			SACRAL ULT
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*String match term added after initial coding