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**Appendix 1**: CPT codes of evaluated procedures and diagnosis codes of patient comorbidities.

- Femoral Neck Fracture (CPT- 27236)
- Ankle Fracture ORIF (CPT- 27814, 27822, 27766, 27769, 27792, and 27823)
- Basal thumb reconstruction (CPT- 25447)
- Distal radius fracture ORIF (CPT- 25607, 25608, and 25609)
- ACL recon (CPT- 29888)
- Knee scope (CPT- 29881)
- TSA (CPT- 23472)
- Shoulder scope (CPT- 29827)
- Ankle arthrodesis (CPT- 27870)
- 1st MTP arthrodesis (CPT- 28750)
- THA (CPT- 27130)
- TKA (CPT- 27447)
- Lumbar Laminotomy (CPT- 63030)
- Lumbar Laminectomy (CPT- 63047)

**Cancer** – any in range
- 'C00' 'C01' 'C02' 'C03' 'C04' 'C05' 'C06' 'C07' 'C08' 'C09' 'C10' 'C11' 'C12' 'C13' 'C14' 'C15' 'C16' 'C17' 'C18' 'C19' 'C20' 'C21' 'C22' 'C23' 'C24' 'C25' 'C26' 'C30' 'C31' 'C32' 'C33' 'C34' 'C35' 'C36' 'C37' 'C38' 'C39' 'C40' 'C41' 'C42' 'C43' 'C44' 'C45' 'C46' 'C47' 'C48' 'C49' 'C50' 'C51' 'C52' 'C53' 'C54' 'C55' 'C56' 'C57' 'C58' 'C60' 'C61' 'C62' 'C63' 'C64' 'C65' 'C66' 'C67' 'C68' 'C69' 'C70' 'C71' 'C72' 'C73' 'C74' 'C75' 'C76' 'C77' 'C78' 'C79' 'C7A' 'C7B' 'C80' 'C81' 'C82' 'C83' 'C84' 'C85' 'C86' 'C87' 'C88' 'C89' 'C90' 'C91' 'C92' 'C93' 'C94' 'C95' 'C96' 'D00' 'D01' 'D02' 'D03' 'D04' 'D05' 'D06' 'D07' 'D08' 'D09' 'D10' 'D11' 'D12' 'D13' 'D14' 'D15' 'D16' 'D17' 'D18' 'D19' 'D20' 'D21' 'D22' 'D23' 'D24' 'D25' 'D26' 'D27' 'D28' 'D29' 'D30' 'D31' 'D32' 'D33' 'D34' 'D35' 'D36' 'D37' 'D38' 'D39' 'D3A' 'D40' 'D41' 'D42' 'D43' 'D44' 'D45' 'D46' 'D47' 'D48' 'D49'

**Depression** –
- 'F30.10' 'F30.11' 'F30.12' 'F30.13' 'F30.2' 'F30.3' 'F30.4' 'F31.10' 'F31.11' 'F31.12' 'F31.13' 'F31.2' 'F31.30' 'F31.31' 'F31.32' 'F31.4' 'F31.5' 'F31.60' 'F31.61' 'F31.62' 'F31.63' 'F31.64' 'F31.73' 'F31.74' 'F31.75' 'F31.76' 'F31.77' 'F31.78' 'F32.0' 'F32.1' 'F32.2' 'F32.3' 'F32.4' 'F32.5' 'F32.9' 'F33.0' 'F33.1' 'F33.2' 'F33.3' 'F33.41' 'F33.42' 'F33.9'

**Anxiety** –
- 'F41.0' 'F41.1' 'F41.8' 'F41.9' 'F43.0' 'R45.7'

**DM** - any in range
- 'E10' 'E11'