Supplemental Information:

Codes used to exclude complications

Diagnosis:

ICD9 codes

160.1 – Malignant neoplasm of auditory tube middle ear and mastoid air cells

170.0 – Malignant neoplasm of bones of skull and face, except mandible

171.0 – Malignant neoplasm of connective and other soft tissue of head, face, and neck

172.2 – Malignant melanoma of skin of ear and external auditory canal

173.2 – Oth and unspec malignant neoplasm of skin of ear and external auditory canal

192.0 – Malignant neoplasm of cranial nerves

192.1 – Malignant neoplasm of cerebral meninges

195.0 – Malignant neoplasm of head, face, and neck

216.2 – Benign neoplasm of ear and external auditory canal

225.1 – Benign neoplasm of cranial nerves

225.2 – Benign neoplasm of cerebral meninges

237.7 – Neurofibromatosis

237.72 – Neurofibromatosis, type 2 [acoustic neurofibromatosis]

Procedures

CPT codes

69150 – Radical excision external auditory canal lesion; without neck dissection

69155 – Radical excision external auditory canal lesion; with neck dissection

69535 – Resection temporal bone, external approach

69552 – Excision aural glomus tumor; transmastoid

69801 – Labrytinthotomy, with or without cryosurgery including other nonexcisional destructive procedures or perfusion of vestibuloactive drugs; transcanal

69802 – Labrytinthotomy, with or without cryosurgery including other nonexcisional destructive procedures or perfusion of vestibuloactive drugs; with mastoidectomy

69905 – Labyrinthectomy; transcanal

69910 – Labyrinthectomy; with mastoidectomy

69915 – Vestibular nerve section; translabyrinthine approach

69950 – Vestibular nerve section; transcranial approach

69955 – Total facial nerve decompression and/or repair

69960 – Decompression of internal auditory canal

69970 – Removal of tumor, temporal bone

69979 – Unlisted procedure, temporal bone, middle fossa approach

Complication codes

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| Diagnoses |
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| Erythema: |
| ·         695.0 – Toxic erythema |
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| Skin infections: |
| ·         682.0 – Other cellulitis and abscess; face |
| ·         682.1 – Other cellulitis and abscess; neck |
| ·         682.8 – Other cellulitis and abscess; other specified sites |
| ·         682.9 – Other cellulitis and abscess; unspecified site |
| ·         686.xx – Other local infections of skin and subcutaneous tissue |
| ·         996.60 – Infection and inflammatory reaction due to unspecified internal prosthetic device, implant, and graft, unspecified |
| ·         996.69 – Infection and inflammatory reaction due to other internal prosthetic device, implant, and graft |
| ·         998.5x – Postoperative infection |
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| Skin reactions: |
| ·         782.0 – Disturbance of skin sensation |
| ·         782.1 – Rash and other nonspecific skin eruption |
| ·         782.2 – Localized superficial swelling, mass, or lump |
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| Wound dehiscence/non-healing: |
| ·         998.3x – Disruption of wound |
| ·         998.83 – Non-healing surgical wound |

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| Procedures | | | | | | | | | | | | |
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| Debridement of skin, muscle, and bone: | | | | | | | | | | | | |
| CPT codes: | | | | | | | | | | | | |
| ·         11000 – Debridement of extensive eczematous or infected skin; up to 10% of body surface | | | | | | | | | | | | |
| ·         11040 – Debridement; skin, partial thickness | | | | | | | | | | | | |
| ·         11041 – Debridement; skin, full thickness | | | | | | | | | | | | |
| ·         11042 – Debridement; skin, and subcutaneous tissue | | | | | | | | | | | | |
| ·         11043 – Debridement; skin, subcutaneous tissue, and muscle | | | | | | | | | | | | |
| ·         11044 – Debridement; skin, subcutaneous tissue, muscle, and bone | | | | | | | | | | | | |
| ICD-9 procedure codes: | | | | | | | | | | | | |
| ·         86.22 – Excisional debridement of wound, infection, or burn | | | | | | | | | | | | |
| ·         86.28 – Nonexcisional debridement of wound, infection, or burn | | | | | | | | | | | | |
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| Skin excision: | | | | | | | | | | | | |
| CPT codes: | | | | | | | | | | | | |
| ·         15839 – Excision, excessive skin and subcutaneous tissue (includes lipectomy); other area | | | | | | | | | | | | |
| ICD-9 procedure codes: | | | | | | | | | | | | |
| ·         86.26 – Ligation of dermal appendage | | | | | | | | | | | | |
| ·         86.3 – Other local excision or destruction of lesion or tissue of skin and subcutaneous tissue | | | | | | | | | | | | |
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| Skin flaps: | | | | | | | | | | | | |
| CPT codes: | | | | | | | | | | | | |
| ·         15572 – Formation of direct or tubed pedicle, with or without transfer; scalp, arms, or legs | | | | | | | | | | | | |
| ·         15576 – Formation of direct or tubed pedicle, with or without transfer; eyelids, nose, ears, lips, or intraoral | | | | | | | | | | | | |
| ·         15610 – Delay of flap or sectioning of flap (division and inset); at scalp, arms, or legs | | | | | | | | | | | | |
| ·         15630 –Delay of flap or sectioning of flap (division and inset); at eyelids, nose, ears, or lips | | | | | | | | | | | | |
| ·         15740 –Flap; island pedicle | | | | | | | | | | | | |
| ·         15757 – Free skin flap with microvascular anastomosis | | | | | | | | | | | | |
| ICD-9 procedure codes: | | | | | | | | | | | | |
| ·         86.7x – Pedicle grafts or flaps | | | | | | | | | | | | |
| Procedures | | | | | | | | | | | | |
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| Skin grafts: | | | | | | | | | | | | |
| ·         15004 – Surgical preparation or creation of recipient site by excision of open wounds, burn eschar, or scar (including subcutaneous tissues), or incisional release of scar contracture, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet and/or multiple digits; first 100 sq cm or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15005 – Surgical preparation or creation of recipient site by excision of open wounds, burn eschar, or scar (including subcutaneous tissues), or incisional release of scar contracture, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet and/or multiple digits; each additional 100 sq cm, or part tereof, or each additional 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15040 – Harvest of skin for tissue cultured skin autograft, 100 sq cm or less | | | | | | | | | | | | |
| ·         15050 – Pinch graft, single or multiple, to cover small ulcer, tip of digit, or other minimal open area (except on face), up to defect size 2 cm diameter | | | | | | | | | | | | |
| ·         15115 – Epidermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area or infants and children | | | | | | | | | | | | |
| ·         15116 – Epidermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15120 – Split-thickness autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children (except 15050) | | | | | | | | | | | | |
| ·         15121 – Split-thickness autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15135 – Dermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15136 – Dermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15155 – Tissue cultured epidermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 25 sq cm or less | | | | | | | | | | | | |
| ·         15156 – Tissue cultured epidermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; additional 1 sq cm to 75 sq cm | | | | | | | | | | | | |
| ·         15157 – Tissue cultured epidermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| Procedures | | | | | | | | | | | | |
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| Skin grafts: | | | | | | | | | | | | |
| ·         15175 – Acellular dermal replacement, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15176 – Acellular dermal replacement, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15220 – Full thickness graft, free, including direct closure of donor site, scalp, arms, and/or legs; 20 sq cm or less | | | | | | | | | | | | |
| ·         15221 – Full thickness graft, free, including direct closure of donor site, scalp, arms, and/or legs; each additional 20 sq cm, or part thereof | | | | | | | | | | | | |
| ·         15260 – Full thickness graft, free, including direct closure of donor site, nose, ears, eyelids, and/or lips; 20 sq cm or less | | | | | | | | | | | | |
| ·         15261 – Full thickness graft, free, including direct closure of donor site, nose, ears, eyelids, and/or lips; each additional 20 sq cm, or part thereof | | | | | | | | | | | | |
| ·         15320 – Allograft skin for temporary wound closure, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15321 – Allograft skin for temporary wound closure, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15335 – Acellular dermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15336 – Acellular dermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15365 – Tissue cultured allogeneic dermal substitute, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15366 – Tissue cultured allogeneic dermal substitute, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·         15420 – Xenograft skin (dermal), for temporary wound closure, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children | | | | | | | | | | | | |
| ·         15421 – Xenograft skin (dermal), for temporary wound closure, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 100 sq cm, or each additional 1% of body area of infants and children, or part thereof | | | | | | | | | | | | |
| ·        15760 – Graft; composite (eg, full thickness of external ear or nasal ala), including primary closure, donor area | | | | | | | | | | | | |
| Procedures | | | | | | | | | | | | |
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| Adjacent tissue transfer: | | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| ·       14020 – Adjacent tissue transfer or rearrangement, scalp, arms and/or legs; defect 10 sq cm or less | | | | | | | | | | | | | | |
| ·       14021 – Adjacent tissue transfer or rearrangement, scalp, arms and/or legs; defect 10.1 sq cm to 30.0 sq cm | | | | | | | | | | | | | | |
| ·       14060 – Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10 sq cm or less | | | | | | | | | | | | | | |
| ·       14061 – Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10.1 sq cm to 30.0 sq cm | | | | | | | | | | | | | | |
| ·       14300 – Adjacent tissue transfer ore rearrangement, more than 30 sq cm, unusual or complicated, any area | | | | | | | | | | | | | | |
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| Treatment of abscess: | | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| ·       10060 – Incision and drainage of abscess (eg, carbuncle, suppurative hidradenitis, cutaneous or subcutaneous abscess, cyst, furuncle, or paronychia); simple or single | | | | | | | | | | | | | | |
| ·       10061 – Incision and drainage of abscess (eg, carbuncle, suppurative hidradenitis, cutaneous or subcutaneous abscess, cyst, furuncle, or paronychia); complicated or multiple | | | | | | | | | | | | | | |
| ·       10160 – Puncture aspiration of abscess, hematoma, bulla, or cyst | | | | | | | | | | | | | | |
| ·       10180 – Incision and drainage, complex, postoperative wound infection | | | | | | | | | | | | | | |
| ·       20000 – Incision of soft tissue abscess (eg, secondary to osteomyelitis); superficial | | | | | | | | | | | | | | |
| ·       20005 – Incision of soft tissue abscess (eg, secondary to osteomyelitis); deep or complicated | | | | | | | | | | | | | | |
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| Treatment of wound dehiscence: | | | |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| ·       12020 – Treatment of superficial wound dehiscence; simple closure | | | | | | | | | | | | | | |
| ·       12021 – Treatment of superficial wound dehiscence; with packing | | | | | | | | | | | | | | |
| ·       13160 – Secondary closure of surgical wound or dehiscence, extensive or complicated | | | | | | | | | | | | | | |
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| Wound repair: | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| ·       13120 – Repair, complex, scalp, arms, and/or legs; 1.1cm to 2.5cm | | | | | | | | | | | | | | |
| ·       13121 – Repair, complex, scalp, arms, and/or legs; 2.6cm to 7.5cm | | | | | | | | | | | | | | |
| ·       13122 – Repair, complex, scalp, arms, and/or legs; each additional 5cm or less | | | | | | | | | | | | | | |
| ·       13131 – Repair, complex, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feed; 1.1cm to 2.5cm | | | | | | | | | | | | | | |
| ·       13132 – Repair, complex, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feed; 2.6cm to 7.5cm | | | | | | | | | | | | | | |
| ·       13133 – Repair, complex, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feed; each additional 5cm or less | | | | | | | | | | | | | | |