Forehead Temporoparietal, Radial forearm, median forehead Scalp Temporoparietal, Latissimus, ALT, Trapezius Midface/nose Median forehead, Nasolabial, Radial forearm, Fibula, Iliac, Orbit Temporoparietal, Radial forearm, ALT Rectus abdominis, submental, cervicofacial Tongue/floor of mouth Radial forearm, ALT, AMT, DP, PM, FAMM Ear Temporoparietal, ALT fascia flap, Lateral arm fascia flap Neck Deltopectoral, Pectoralis major, ALT, Parascapular, supraclavicular Buccal FAMM Radial forearm, ALT, DP, PM Esophagus Jejunum, ALT, Radial forearm, Colon Shoulder Latissimus dorsi, Empyema/bronchopleural fistula Latissimus dorsi, supraclavicular, Scapular, Trapezius, Pectoralis major Serratus anterior, Pectoralis major Adynamic shoulder Trapezius, Gracilis Chest wall Pectoralis major, Rectus abdominis, Arm Scapular, Latissimus dorsi, Omentum, External oblique, ALT, TFL Radial forearm, ALT, Lateral arm Sternum/mediastinum Pectoralis major, Rectus abdominis, Omentum, ALT, TFL Breast Latissimus dorsi, DIEP, TRAM, Transverse gracilis myocutaneous flap, SGAP, IGAP Abdominal wall Rectus abdominis, ALT, TFL, DIEAP, SEAP Groin DIEP, TRAM, Gracilis, ALT, TFL, SCIA Elbow flexion Latissimus dorsi, Gracilis Wrist flexion/extension Gracilis Palm Glabrous skin flaps, Homodigital, ADM Penis ALT, Fibula, Rectus abdominis, Groin (Medial plantar, Medialis pedis), Radial forearm, Posterior interosseous Finger amputation Vagina (in female) Jejunum, Colon, Gracilis, VRAM, DIEP Replantation of amputee, Toe, Glabrous skin Thigh TFL. ALT. Gracilis. SCIA Finger pulp Glabrous skin flaps Knee Latissimus dorsi, Reverse ALT, (Medialis pedis, Toe pulp flap, Medial plantar) Reverse vastus lateralis, Gastrocnemius, Sural Cross-finger, Moberg, homodigital Upper Gastrocnemius, ALT, Sural supramalleolar Foot Glabrous skin flaps (FDB, medialis pedis, medial plantar), Radial forearm, Temporoparietal, Rectus abdominis, EDB, С abductor hallucis Skull base Scalp Temporoparietal, Latissimus dorsi, ALT Rectus abdominis, ALT, Vastus lateralis Mandible Neck Trapezius, Latissimus dorsi, ALT Fibula, Iliac, Metatarsal, Radial forearm Midline back Latissimus dorsi, Trapezius, Parascapular Arm Latissimus dorsi, Radial forearm. ALT, Lateral arm, Scapular Elbow Radial forearm, Lateral forearm, Latissimus dorsi Lower back SGAP, Lumbar perforator, Latissimus dorsi Dorsal forearm Radial forearm, Lateral arm, Latissimus dorsi Sacrum SGAP, IGAP, Gluteus Ischium Dorsal hand IGAP, Gracilis, Posterior thigh, Inferior gluteal, TFL Posterior interosseous, Radial forearm, Temporoparietal, ALT Dorsal metacarpal, Ulnar artery perforator Posterior interosseous, Toe, Dorsal metacarpal, Greater trochanter TFL, ALT, Vastus lateralis Cross finger, Homodigital Posterior thigh Gracilis, ALT, IGAP Popliteal Gastrocnemius, ALT, Latissimus dorsi, Sural Achilles Distal sural. Radial forearm. ALT, TFL, Lateral arm, Distal soleus, EDB D

Figure 3.1, cont'd (C,D) Workhorse flaps commonly used for reconstruction of specific body regions. These are flaps customarily used for each body part, and include both free flap and pedicled flap alternatives. Although it may not be specifically listed, many workhorse flaps often have additional potential roles as a choice for other body regions. ADM, abductor digiti minimi; ALT, anterolateral thigh; AMT, anteromedial thigh; DIE(A)P, deep inferior epigastric (artery) perforator; DP, deltopectoral; EDB, extensor digiti brevis; FAMM, facial artery musculomucosal; FDB, flexor digitorum brevis; IGAP, inferior gluteal artery perforator; MFC, medial femoral condyle; PM, pectoralis major; PTAP, posterior tibial artery perforator; SEAP, superior epigastric artery perforator; SGAP, superior gluteal artery perforator; SIEA, superficial inferior epigastric artery; TDAP, thoracodorsal artery perforator; TPF, temporoparietal fascia; TFL, tensor fascia lata; TRAM, transverse rectus abdominis myocutaneous; VRAM, vertical rectus abdominis myocutaneous.

Table 3.6 Comparison of attributes for "workhorse specialized" tissue flaps

	Colon	Glabrous skin	Jejunum	Joints	Nail beds	Тое
Ease of dissection	Simple	Not easy	Easy	Moderate	Difficult	Moderate
Anatomic anomalies	No	Usually	No	Common	No	Common
Potential for harvest as compound flap/component tissues that can be included	No	No	No	Yes/bone, skin	Yes/any part of toe	Yes/any part of foot
Contour (thin → bulky)	Bulky	Thin	Moderate thickness	N/A	N/A	N/A
Implant osseointegration	N/A	N/A	N/A	No	N/A	Yes
Donor site morbidity	Laparotomy needed	Minimal	Laparotomy needed	Can be minimal	Loss of nail	First toe, yes; Second toe, minimal
Bone length	N/A	N/A	N/A	Shorter	Variable	Short
Vascular pedicle caliber	Large	Small	Very large	Large	Small	Large
Vascular pedicle length	Long	Short	Very long	Medium	Short	Medium
When used as pedicled flap						
Arc of rotation	Wide	Limited	Moderate	N/A	N/A	N/A
Reliability	Good	Moderate	Good	N/A	N/A	N/A
Potential for harvest as distally based	N/A	Yes	N/A	N/A	N/A	N/A

N/A, not applicable.

Table 3.7 Typical and atypical indications for the free and pedicled version of "workhorse" flaps harvested from the head and neck, chest, abdomen, and back regions

	Free microvascular transfer			Pedicled		
Flap	Typical indication	Atypical indications	Typical indication	Atypical indications		
Temporoparietal fascia	Thin, gliding surface to cover tendons, especially hand	Hair transplant	Ear salvage	Beard or eyebrow reconstruction		
Pectoralis major	None	None	Closure of chest or facial wounds	Repair of esophagus or trachea		
Deltopectoral	None	None	Oropharynx	Chest wounds		
Rectus abdominis	Breast reconstruction	Lower extremity	Breast reconstruction	Groin		
Jejunum	Cervical esophagus	Oropharynx lining	N/A	N/A		
Trapezius	None	None	Midline posterior neck coverage	Lateral face		
Scapular and parascapular	Large defects	Bone flap	Axillary contractures	Head and neck coverage		
Latissimus flap	Large defects	Quadriceps function restoration	Breast, chest wounds, thoracic spine	Axillary contractures, head and neck, dynamic upper extremity		

N/A, not applicable.