Indications and techniques of vascularized bone transfer in the upper extremity

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Lengthening of humeral stump
(Latissimus dorsi + rib)
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Pedicled tetrafoliate flap
Pedicled tetrafoliate flap
Pedicled tetrafoliate flap
Pedicled parascapular osteocutaneous flap
Pedicled parascapular osteocutaneous flap
Pedicled parascapular osteocutaneous flap
Free fibula flap
Free fibula flap
Free fibula flap
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer
Free iliac bone transfer

Post-op  3 months  6 months
Free iliac bone transfer
Free fibula transfer
Free fibula transfer
Free fibula transfer
Free osteocutaneous lateral arm flap
Free osteocutaneous lateral arm flap
Free osteocutaneous lateral arm flap
Reverse-flow Chinese osteocutaneous flap
Reverse-flow Chinese osteocutaneous flap
Reverse-flow Chinese osteocutaneous flap
Reverse-flow osteocutaneous dorso-ulnar thumb flap
Reverse-flow osteocutaneous dorso-ulnar thumb flap
Reverse-flow osteocutaneous dorso-ulnar thumb flap
Reverse-flow osteocutaneous dorso-ulnar thumb flap
Anterior interosseous flap
Free anterior interosseous flap
Free anterior interosseous flap
Free anterior interosseous flap
Free anterior interosseous flap
Free anterior interosseous flap
Reverse-flow anterior interosseous flap
Reverse-flow anterior interosseous flap
Reverse-flow anterior interosseous flap
Vascularized bone transfer in the upper extremity

- Extensive bone defects (> 6 cm)

- Inadequate recipient bed for conventional bone graft
  - Post-infectious sclerosis
  - Post-radiation therapy sclerosis
  - Multiple unsuccessful attempts of reconstruction by conventional methods

- One stage reconstruction of composite defects