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Surgery and push-outs on frames.

A (p, q) -replacement on a frame is a surgery of the frame obtained by replacing a subset of p vectors with a different set of q vectors. A push-out of a frame is a dilation of the frame with constant dilation component. And a group-frame is a frame obtained by the action of a group representation on a generating vector. We discuss some new results on (p, q) -replacements and push-outs of finite frames, with emphasis on tight group frames.