These patterns are the BPMN equivalents of the Workflow Patterns research headed by Wil van der Aalst. The work can be found here:

http://tmitwww.tm.tue.nl/research/patterns/

WP1: Sequence
WP2: Parallel Split
WP3: Synchronization
WP4: Exclusive Choice
WP5: Simple Merge
WP6: Multi-Choice
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WP8: Discriminator
WP9: N out M Join

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WP17: Deferred Choice
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WP19: Milestone
WP20: Cancel Activity
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WP1: Sequence

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WP2: Parallel Split

Version 1

A -> B, C

Parallel Split
Uncontrolled Flow
Applies to Start Events

Version 2

A -> B, C

Parallel Split
Uncontrolled Flow

Version 3

A -> B, +, C

Parallel Split
Forking Gate

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WP3: Synchronization

Version 1

A

B

D

Synchronization Applies to End Events

Version 2

A

B

C

Synchronization Joining Gate
WP4: Exclusive Choice

Exclusive Choice Decision Gate

Pattern Index
WP5: Simple Merge

Version 1

A → C
B → C
Simple Merge
Uncontrolled Flow

Version 2

A → X
B → X
Simple Merge
Merging Gate
X → C

Pattern Index
WP6: Multi-Choice

Version 1

A

B

C

Multi-Choice Using Mini-Gates

Version 2

A

B

C

Multi-Choice Inclusive Decision Gate
WP7: Multiple Merge

Pattern Index
WP8: Discriminator

Parallel Split
Uncontrolled Flow

Discriminator Merging Gate

Pattern Index
WP9: N out M Join

A -> B1 -> C
B2 -> C
B3 -> C

Parallel Split
Uncontrolled Flow

N out of M Join
Complex Gate
WP11: Arbitrary Cycles

http://bpmi-notation-wg.netfirms.com/Samples/Patients/arbitraryCycles.htm
WP13: MI with a priori Design Time Knowledge

WP14: MI with a priori Runtime Knowledge

WP15: MI with no a priori Knowledge

WP16: MI requiring Synchronization

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WP17: Deferred Choice

Deferred Choice
Event-Based Exclusive Decision Gate?

Pattern Index
WP18: Interleaved Routing

A

B

Choose D

C

Choose E

If D happens first, then E happens second.
If E happens first, then D happens second.

D

If E not Done

If D not Done

E

G

H

F

Pattern Index
**WP19: Milestone**

Choose A

Choose C

http://bpmi-notation-wg.netfirms.com/Samples/Patterns/Milestone.htm
WP20: Cancel Activity

Parallel Split
Uncontrolled Flow

Cancel Activity
Intermediate Event

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