

Final Topic Refinement Document
Catheter Ablation for Atrial Fibrillation - Project ID: CRDT0913

Date: 05/29/2014

Topic: Catheter Ablation for Atrial Fibrillation – Project ID: CRDT0913

EPC: Pacific Northwest EPC

AHRQ Task Order Officer: Kim Wittenberg

Partner: CMS

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Key Questions

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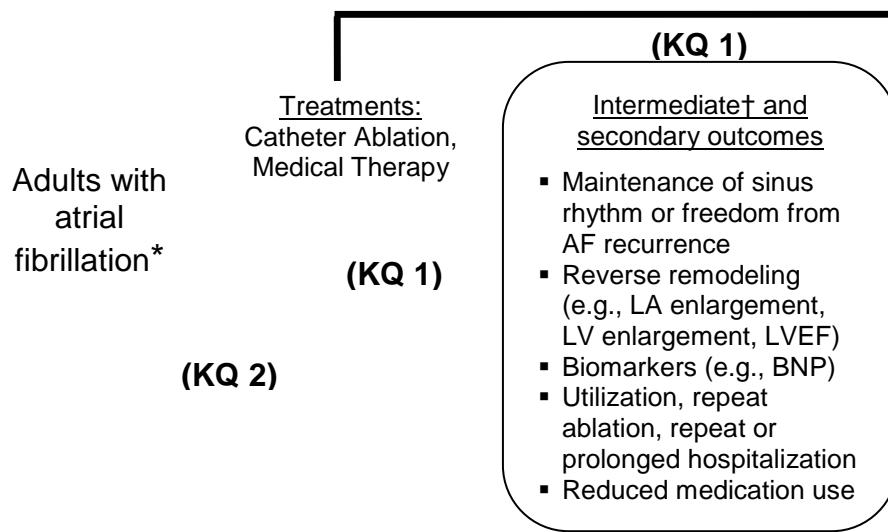
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c+

D

Draft Analytic Framework H1CiÆ eT K H 4Y ,\$...! Å) h Tp9 1 q 1Gdp9^ 0

**Figure 1. DRAFT analytic framework:
Catheter Ablation for Atrial Fibrillation**



KQ 3: Differential efficacy, effectiveness, or harms based on population characteristics (e.g., age, sex)

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Encuu"K"tgeq o o gpfcvkqp"hq"vtgcv o gpv" ykvj "hngcckpkfg."fqhgvknkfg."rtqrchgpqpg."qt"kdwvknkfg="cpf"c"Encuu"KKc"tgeq o o gpfcvkqp"hq"cf o kpkuvtkqp"qh"co kqfcctqpg"hq"rcvkgpvu" ykvj "pq"uvtwevwtcn"jgctv"fkugcug0"kp"rcvkgpvu" ykvj "jgctv"hcwkwtg."vjg" i wkfgnkpgu"tgeq o o gpf"qpn{"vyq"cpvkcttj {vj oke"o gfkcvkqpu"cu"hktuv"nkpg"vjgtcr {"pc o gn{ ."fqhgvknkfg"cpf"c o kqfcctqpg0

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PICOTS	Include	Exclude
Interventions	<ul style="list-style-type: none"> CHADS₂ or CHA₂DS₂VASc criteria) and history of prior stroke <ul style="list-style-type: none"> o Obesity o Patients with atrial fibrosis x Catheter ablation: <ul style="list-style-type: none"> o Devices available for use in the U.S. o Main focus on pulmonary vein isolation (PVI) alone; however, PVI with additional lines, PVI plus cavotricuspid isthmus ablation vs. PVI only will also be included <ul style="list-style-type: none"> – targeting of the pulmonary vein antrum and use of irrigated or 8 mm catheter tips o Ablation (including standalone radiofrequency ablation) of complex fractionated atrial electrograms (CFAE) and linear ablations o Ablation of ganglionated plexi) o Wide area circumferential ablation (WACA) o PVAC (pulmonary vein ablation catheter) system; multi-electrode RF catheter o Michel Haissaguerre approach o Ablation of non-pulmonary vein foci o Cryoablation o Cryoballoon ablation o Laser balloon o Ablating rotors/FIRM (focal impulse and rotor modulation) 	<ul style="list-style-type: none"> x Ablation as an adjunct to surgery, intraoperative ablation x Right atrial ablation for atrial flutter x Use of non-Food and Drug Administration (FDA) approved devices or devices not im Rienb de

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PICOTS	Include	Exclude
	<ul style="list-style-type: none">x Freedom from recurrence of AFx Maintenance of sinus rhythm,x Parameters suggesting reverse remodeling (e.g., LA size, LV size, LV ejection fraction)x Effect on biomarkers (e.g., brain natriuretic peptide)x Health care utilizationx Reduced medication use (e.g., need for anticoagulants, antiarrhythmic drugs)	
	<p><u>Harms or adverse events (<i>procedure or treatment related</i>)</u></p> <ul style="list-style-type: none">x In-hospital and 30-day mortality (all-cause, cardiovascular)x In-hospital and 30-day stroke (any, by type), TIAx In-hospital and 30-day embolic events]

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PICOTS	Include	Exclude
	<ul style="list-style-type: none"> journals, published health technology assessments, or publicly available FDA reports <input checked="" type="checkbox"/> Gray literature (e.g., ongoing or unpublished clinical trial data) 	<ul style="list-style-type: none"> 2005 (to exclude outdated technologies) <input checked="" type="checkbox"/> Single reports from multicenter trials <input checked="" type="checkbox"/> Duplicate publications of the same study which do not report on unique outcomes

Definition of Terms

Ecvjgvgt"cdncvkqp<"Rtqegfwtg"wugf"vq"vtgcv"uq o g"v{ rgu"qh"jgctv"cttj {vj o kcu0" Tguvqtgu"pqt o cn"ukpwu" tj {vj o "d{"fgnkxgtkp{i"pgpti {"vj tqwij"ecvjgvgtu"iwkfgf"htqo"vjq"cto."itqkp."qt"pgem"vj tqwij"dnqqf" xguugnu"vq"vct i gvgf"rakpvu"kp"vjq"jgctv"cv"y jkej"vj g"cttj {vj o kc"qtkikpcvgu0""Vjku"pgpti {"cdncvgu"qt" fguvtq{u"vj gug"u o cm"hqecn"ctgcu"qh"vj g"jgctv"cpf"fkutrvu"vj g"cdpqt o cn"gngevtkecn"cevkxkv{0"

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Key Question changes:

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and Accessory Cables (P960016)		
Stinger™ Ablation Catheter and TempLink™ Extension Cable (P000020)	2000	C.R. Bard, Inc., Bard Electrophysiology Division
NAVISTAR™ Diagnostic/Ablation Deflectable Tip Catheter (P990025)	2000	Biosense Webster, Inc.