

二、WSO 卒中中心标准

首次评审时，需满足标准或高级卒中中心的所有必备项目和75%以上的推荐项目。
第二和第三年评审时，需满足85%以上的推荐项目且持续提升关键绩效质量指标。
级别评定满三年，持续质量提升并达到上一级别标准，可申请上一级别卒中中心。

	标准卒中中心 Essential Stroke Center	高级卒中中心 Advanced Stroke Center	卓越卒中中心 Excellent Stroke Center
1、基础诊断服务能力			
<i>Access to basic diagnostic services</i>			
血液检验（24小时/天，7天/周，血常规、肝功、肾功、电解质、 血糖、凝血，清晨空腹血脂） <i>Laboratory blood test 24 hours/day, 7 days/week (blood routine, liver function, kidney function, electrolytes, blood glucose, coagulation, morning fasting blood lipids)</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
12导联心电图，24/7 <i>Electrocardiogram (12 lead) 24/7</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
颅脑CT扫描，24/7 <i>Computed Tomography (CT) brain scan 24/7</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
CT血管成像(CTA)，24/7 <i>CT angiography (CTA) 24/7</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
经胸超声心动图 <i>Transthoracic echocardiogram</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
血管多普勒超声 <i>Vascular Doppler ultrasound</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
动态心电图监测 <i>Holter monitors</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
2、高级诊断服务能力			
<i>Access to advanced diagnostic services</i>			
磁共振成像 <i>Magnetic Resonance Imaging (MRI)</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
磁共振血管造影 <i>MR Angiography</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
CT/MR灌注扫描 <i>CT or MR Perfusion scans</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
长程心电监护设备 <i>Prolonged electrocardiogram monitoring devices</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
经颅多普勒超声（包括发泡实验、术中监护） <i>Transcranial Doppler ultrasonography (including bubble test and intraoperative monitoring)</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
经食管超声心动图 <i>Transesophageal echocardiogram</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
数字减影血管造影，24/7 <i>Digital subtraction angiography 24/7</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory

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3、超急性卒中救治能力			
<i>Access to hyperacute stroke care</i>			
开设急诊科	必备 Mandatory	必备 Mandatory	必备 Mandatory
<i>Emergency Department available</i>			
急诊科全天候接诊，24/7	必备 Mandatory	必备 Mandatory	必备 Mandatory
<i>Emergency service 24/7</i>			
卒中专业医生全天候急性卒中救治，24/7	必备 Mandatory	必备 Mandatory	必备 Mandatory
<i>Access to physicians with stroke expertise in acute stroke care 24/7</i>			
医院周边地区的主要交通要道、医院门诊、急诊设置醒目的指引标志，引导患者快速到达急诊科/卒中中心	推荐 Recommended	推荐 Recommended	必备 Mandatory
<i>Prominent signages at the main thoroughfares surrounding the hospital, the outpatient and emergency departments to direct the patients to the emergency/stroke center swiftly</i>			
急诊科分诊、挂号、收费、诊室、影像、抽血、检验、药房等均应设置卒中患者优先标识	推荐 Recommended	推荐 Recommended	必备 Mandatory
<i>Stroke priority signs posted at emergency triage, registration, billing, consultation rooms, imaging departments, blood drawing stations, laboratories, pharmacies, and other relevant locations</i>			
医院/急诊科快速评估和诊断卒中患者的流程，有时间评估指标，24/7	必备 Mandatory	必备 Mandatory	必备 Mandatory
<i>Protocols for rapid evaluation and diagnosis of stroke patients in hospital/emergency department 24/7, with time metrics assessment</i>			
急诊设置脑卒中溶栓专用床或者脑卒中溶栓称重专用设备	推荐 Recommended	推荐 Recommended	推荐 Recommended
<i>Equipped with stroke thrombolysis beds or specialized equipment for stroke thrombolysis and body weighting</i>			
开展静脉溶栓治疗	必备 Mandatory	必备 Mandatory	必备 Mandatory
<i>Access to intravenous thrombolysis</i>			
全天候静脉溶栓治疗，24/7	推荐 Recommended	必备 Mandatory	必备 Mandatory
<i>Intravenous thrombolysis 24/7</i>			
每年最少溶栓数量	10	20	50
<i>Thrombolysis (minimal number recommended per year)</i>			
入院到开始静脉溶栓治疗时间（DNT）		<60分钟	<45分钟
<i>Door-to-Needle Time (DNT)</i>			
接受静脉溶栓治疗的缺血性卒中患者占有所有4.5小时内到院缺血性卒中患者的比例		≥60%	≥80%
<i>The proportion of ischemic stroke patients who receive intravenous thrombolysis among all ischemic stroke patients admitted to the hospital within 4.5 hours</i>			
静脉溶栓治疗后出现症状性颅内出血的患者比例		≤5%	≤2%
<i>The proportion of patients with symptomatic hemorrhage after intravenous thrombolysis</i>			
急性卒中患者有规范化急诊电子病历	推荐 Recommended	推荐 Recommended	必备 Mandatory
<i>Standardized emergency electronic medical records</i>			

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4、急诊卒中救治团队，团队中包括			
<i>Specialist responsible for emergent stroke care in the hospital</i>			
神经内科医生	推荐	必备	必备
<i>Neurologist/physician</i>	Recommended	Mandatory	Mandatory
神经外科医生	推荐	推荐	推荐
<i>Neurosurgeon</i>	Recommended	Recommended	Recommended
急诊医生	推荐	必备	必备
<i>Emergency physician</i>	Recommended	Mandatory	Mandatory
重症监护医生	推荐	推荐	推荐
<i>Intensivist</i>	Recommended	Recommended	Recommended
其他专科医生	推荐	推荐	推荐
<i>Other specialists</i>	Recommended	Recommended	Recommended
通过远程卒中诊疗模式和远程放射诊断技术，获得卒中专科医生的远程诊疗	推荐	推荐	推荐
<i>Access to stroke specialists through tele stroke modalities, and teleradiology</i>	Recommended	Recommended	Recommended
5、急救医疗服务			
<i>Access to emergency medical services (EMS)</i>			
具备急救医疗服务（急救中心或自有）	推荐	必备	必备
<i>Access to EMS (central or owned)</i>	Recommended	Mandatory	Mandatory
围绕急性卒中救治与本地区120开展合作，将卒中作为需要优先转运的紧急情况	推荐	推荐	必备
<i>Collaborate with local ambulance systems for acute stroke treatment, taking stroke as a high priority transport emergency,</i>	Recommended	Recommended	Mandatory
联合急救系统开展培训，使急救车工作人员通过FAST或其他类似方法识别卒中	推荐	推荐	必备
<i>Jointly training for ambulance crew, to identify stroke signs using FAST mnemonic or similar mnemonic</i>	Recommended	Recommended	Mandatory
保留急救车接待记录，联合急救系统开展质控会议	推荐	推荐	推荐
<i>Maintain ambulance reception records and jointly hold quality control meetings with emergency medical system</i>	Recommended	Recommended	Recommended
6、卒中住院管理			
<i>Acute inpatient stroke care</i>			
有病区与卒中绿道对接，保障卒中患者能够住院治疗	推荐	必备	必备
<i>Access to acute inpatient stroke care, where admitted stroke patients are cared for</i>	Recommended	Mandatory	Mandatory
卒中单元（一个由特定床位、人员和规范组成的专门用于卒中患者急性期管理的区域）	必备	必备	必备
<i>Stroke Unit (a defined group of beds, staff, and protocols that are used for the acute care of patients with a stroke)</i>	Mandatory	Mandatory	Mandatory
卒中患者在病区内的集束化管理模式	必备	必备	必备
<i>Clustered management model within the same ward</i>	Mandatory	Mandatory	Mandatory

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7、跨学科卒中团队成员			
<i>Members of an interdisciplinary stroke team</i>			
神经内科医生	推荐	推荐	必备
<i>Neurologist</i>	Recommended	Recommended	Mandatory
卒中专业的神经内科医生	必备	必备	必备
<i>Neurologist with stroke expertise (or stroke physician in some countries)</i>	Mandatory	Mandatory	Mandatory
卒中预防和康复医生	推荐	推荐	必备
<i>Access to physicians with expertise in stroke prevention and stroke rehabilitation</i>	Recommended	Recommended	Mandatory
护理员	必备	必备	必备
<i>Nursing assistants</i>	Mandatory	Mandatory	Mandatory
临床药师	推荐	推荐	推荐
<i>Pharmacist</i>	Recommended	Recommended	Recommended
社会工作者	推荐	推荐	推荐
<i>Social worker/case manager</i>	Recommended	Recommended	Recommended
姑息治疗团队	推荐	推荐	推荐
<i>Palliative Care team</i>	Recommended	Recommended	Recommended
物理治疗师	必备	必备	必备
<i>Physiotherapist</i>	Mandatory	Mandatory	Mandatory
作业治疗师	推荐	推荐	必备
<i>Occupational Therapist</i>	Recommended	Recommended	Mandatory
语言治疗师	推荐	必备	必备
<i>Speech-Language Pathologist</i>	Recommended	Mandatory	Mandatory
神经外科医生	推荐	推荐	必备
<i>Neurosurgeon</i>	Recommended	Recommended	Mandatory
神经介入医师（介入神经科医师、血管神经外科医师，或介入神经放射科医师）	推荐	必备	必备
<i>Neuro-interventionalist (interventional neurologist, endovascular neurosurgeon, or interventional neuroradiologist)</i>	Recommended	Mandatory	Mandatory
8、基于最佳实践指南的卒中单元急性卒中治疗规范，包括医疗和护理			
<i>Access to stroke unit protocols to guide acute stroke care based on best practice guidelines (medical and nursing assessments)</i>			
完成NIHSS评分	必备	必备	必备
<i>Completion of NIHSS scoring for acute stroke patients</i>	Mandatory	Mandatory	Mandatory
完成改良Rankin量表（mRS）评估	必备	必备	必备
<i>Assessment of modified Rankin Scale</i>	Mandatory	Mandatory	Mandatory
日常生活能力（ADL）评估	推荐	必备	必备
<i>Assessment of Activities of Daily Living</i>	Recommended	Mandatory	Mandatory
吞咽功能评估	必备	必备	必备
<i>Swallowing assessment</i>	Mandatory	Mandatory	Mandatory
营养风险评估和早期肠内营养支持	必备	必备	必备
<i>Nutritional assessment and early enteral nutritional support</i>	Mandatory	Mandatory	Mandatory

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功能状态、活动能力评估 <i>Assessment of functional status, mobility</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
深静脉血栓监测预防 <i>Monitoring and prevention of deep venous thrombosis</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
依赖程度评估 <i>Assessment of dependency level</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
皮肤完整性评估 <i>Assessment of skin integrity</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
尿便控制评估 <i>Assessment of bladder and bowel continence</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
体温管理 <i>Temperature management</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
良肢位与移动管理 <i>Positioning and mobilization management</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
卒中相关肺炎评估 <i>Assessment of stroke-associated pneumonia</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
医院获得性肺炎的预防和治疗 <i>Prevention and treatment of hospital-acquired pneumonia</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
脑、颈部血管CTA/MRA或血管超声等检查 <i>CTA/MRA of the brain and cervical vessels, vascular ultrasonography</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
对患者及其家属进行卒中防治（如抗血小板、抗凝、血压管理和生活方式等）宣教、技能培训并参与护理方案的制定 <i>Provide stroke prevention and management education (including antiplatelet therapy, anticoagulation, blood pressure control, and lifestyle modifications), skill training for patients and their families, and involve them in care planning</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
提供出院计划 <i>Discharge planning</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
9、高级救治能力			
<i>Access to advanced interventions</i>			
全天候血管内取栓治疗，24/7 <i>Endovascular thrombectomy 24/7</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
导管室、麻醉科及其他相关科室协同开展脑卒中取栓绿色通道的工作机制 <i>The collaborative green channel working mechanism among the DSA facility, anesthesia department, and other relevant departments prior to endovascular treatment (thrombectomy) for acute stroke</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
每年最少取栓治疗数量 <i>Thrombectomy (minimal number recommended per year)</i>		10	20
具有出血性卒中的诊疗指导规范，并根据规范制定本科室标准化流程 <i>Guidelines for the diagnosis and treatment of hemorrhagic stroke. Development of standardized departmental protocols based on these guidelines</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory

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出血性卒中的神经外科手术（包括动脉瘤夹闭、脑室引流置管、开颅血肿清除术），24/7 <i>Neurosurgery for hemorrhagic stroke (including clipping, intraventricular drain placement, craniotomy for hematoma evacuation) 24/7</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
缺血性卒中的去骨瓣减压手术，24/7 <i>Hemicraniectomy for ischemic stroke 24/7</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
逆转凝血障碍的药物 <i>Products to reverse coagulopathy</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
具有脑血管病介入诊疗指导规范，并根据规范制定本科室标准化流程 <i>Guidelines for the interventional diagnosis and treatment of cerebrovascular diseases. Development of standardized departmental protocols based on these guidelines</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
颈动脉内膜剥脱术/颈动脉狭窄支架成形术 <i>Carotid endarterectomy/carotid artery stenting for carotid stenosis</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
动脉瘤血管内治疗 <i>Aneurysmal endovascular treatment</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
动静脉畸形手术及血管内治疗 <i>Arteriovenous malformation surgery and intravascular therapy</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
能够开展脑血管病复合手术 <i>Hybrid surgery for cerebrovascular diseases</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
颅、颈段静脉/静脉窦性疾病的诊断和治疗 <i>Diagnosis and treatment of cranial and cervical vein-venous sinus diseases</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
设置符合标准的神经重症监护病房 <i>Standard-compliant neurological intensive care unit</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
床旁神经多模式监测的实施 <i>Implementation of bedside neuromultimodal monitoring</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
10、卒中康复服务			
<i>Access to stroke rehabilitation services</i>			
独立的康复病房 <i>Access to rehabilitation ward</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
标准的作业流程 <i>Standard operating procedures</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
早期功能评估、目标设定和个体化康复计划的制定 <i>Early functional assessment, goal setting, and individualized rehabilitation plans developed</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
早期康复治疗，包括对护士、护理员和家庭成员的交叉训练 <i>Early access to rehabilitation therapies – including cross training of skills to nurses, nursing assistants, and family members</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
开展指南推荐的康复疗法 <i>Adherence to guidelines for rehabilitation</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
开展对出院患者在门诊、社区进行的康复指导 <i>Rehabilitation guidance to discharged patients in outpatient and community settings</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended

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11、卒中救治管理			
<i>Organization of stroke care</i>			
建立多学科融合的卒中中心/脑血管病中心	推荐	必备	必备
<i>Multidisciplinary stroke center/cerebrovascular disease center</i>	Recommended	Mandatory	Mandatory
成立卒中中心管理委员会	推荐	推荐	必备
<i>Stroke Center Management Committee.</i>	Recommended	Recommended	Mandatory
卒中中心主任	必备	必备	必备
<i>Stroke Center director</i>	Mandatory	Mandatory	Mandatory
负责质控的专业人员	必备	必备	必备
<i>Nurse coordinator (or other professional responsible for the quality program)</i>	Mandatory	Mandatory	Mandatory
参与WSO中国行动计划，进行卒中服务质量评估（需在现场评审前完成4个月的脑卒中患者数据收集及绩效评估，并上传至平台）	必备	必备	必备
<i>Participation in quality assessment of services (WSO China Action Plan registry) - 4 months of data collection and performance measures must be uploaded to the platform before the on-site visit</i>	Mandatory	Mandatory	Mandatory
制定卒中中心管理工作会议制度，多学科联合例会制度，多学科联合查房制度，多学科联合会诊制度，疑难、危重病历讨论制度，多学科联合质控制度	推荐	推荐	必备
<i>Establishment of stroke center management meetings, multidisciplinary meetings, multidisciplinary ward rounds, multidisciplinary consultation, difficult and critical case discussion, and a multidisciplinary quality control system</i>	Recommended	Recommended	Mandatory
每半年至少召开1次卒中中心管理工作会议，解决卒中中心建设工作中的主要问题	推荐	推荐	必备
<i>At least one stroke center management meeting every six months to address key issues in the stroke center management</i>	Recommended	Recommended	Mandatory
每月举行卒中中心工作例会、临床质控会，分析、梳理、发现并讨论解决存在的问题，更新流程、规范	必备	必备	必备
<i>Monthly stroke task force discussions on clinical quality data, guides, and performance</i>	Mandatory	Mandatory	Mandatory
每周举行多学科联合查房或会诊，讨论典型、疑难病例，讨论患者的治疗目标，并更新管理计划	推荐	推荐	推荐
<i>Interdisciplinary rounds or consultations weekly to discuss typical and challenging cases, review patients' treatment goals, and update management plans</i>	Recommended	Recommended	Recommended
参加WSO开发和维持核心能力及卒中治疗的培训项目	必备	必备	必备
<i>Participate in WSO program to develop and maintain core competencies and stroke care</i>	Mandatory	Mandatory	Mandatory
卒中护士培训（培训应书面记录，至少4小时/年，文件可上传到平台或在现场评估时提供）	必备	必备	必备
<i>Acute nurse care training (at least 4 hours/year - the documented training record can be uploaded to the platform or should be presented during the onsite visit)</i>	Mandatory	Mandatory	Mandatory

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卒中单元培训（培训应书面记录，至少4小时/年，文件可上传到平台或在现场评估时提供，包括卒中单元规范，神经功能评估和吞咽筛查） <i>Stroke unit training (at least 4 hours/year - the documented training record can be uploaded to the platform or should be presented during the onsite visit, including stroke unit protocols, neurological assessment and swallowing screen)</i>	必备 Mandatory	必备 Mandatory	必备 Mandatory
有面向医院全体医务人员、卒中中心质控人员、救治团队以及相关学科人员的培训体系 <i>Training system for all medical staff, stroke center quality control personnel, treatment teams, and relevant discipline personnel in the hospital</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
12、卒中预防			
Stroke prevention			
房颤患者进行CHADS2/CHA2DS2-VASc评分 <i>CHADS2/CHA2DS2-VASc scoring for patients with atrial fibrillation</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
抗凝治疗前行HAS-BLED评分评估出血风险 <i>HAS-BLED scoring before initiating anticoagulation therapy to evaluate hemorrhagic risk</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
脑卒中高危患者识别及干预 <i>High-risk stroke patient identification and intervention</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
健康管理及随访的相关制度（工作职责、考核制度、奖励制度）和流程 <i>Health management and follow-up system (including responsibilities, assessment, rewarding) and procedures</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
专职负责脑心健康管理及随访工作的人员 <i>Full-time brain and heart health manager in charge of patient management and follow-up</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
内容完整的健康管理档案 <i>Health management files with complete contents</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
定期随访管理 <i>Periodic follow-up management</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
在卒中相关科室设立健康教育板报、宣传栏、知识角 <i>Health education boards, publicity boards, and knowledge corners in stroke related departments</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
印刷版的卒中患者教育材料 <i>Printed stroke patient educational materials</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
脑卒中健康教育与讲座 <i>Stroke health education and lectures</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
科普宣教，提升公众对卒中防治的认识和健康素养 <i>Health education to enhance public awareness and health literacy in stroke prevention and treatment.</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory

	标准卒中中心 Essential Stroke Center	高级卒中中心 Advanced Stroke Center	卓越卒中中心 Excellent Stroke Center
13、协调不同区域的卒中救治工作			
<i>Coordinate stroke care across geographically discrete regions</i>			
与区域内医疗机构建立卒中救治网络 <i>Establish a coordinated stroke referral system</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
具有根据卒中患者需求跨区域向上级和下级医疗服务机构的转诊路径 <i>Stroke pathways that define the movement of stroke patients across regions to higher or lower levels of services as required</i>	推荐 Recommended	必备 Mandatory	必备 Mandatory
积极参与区域卒中分级诊疗体系建设，定期开展宣传推广、质控管理、培训教育、数据上报等工作 <i>Actively participate in the construction of the regional stroke tiered diagnosis and treatment system, and regularly carry out tasks such as promotion, quality control, training and education, and data reporting.</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
以学术讲座、业务指导、病历指导和远程教学等多种方式开展针对各级医疗单位的卒中培训项目 <i>Stroke training programs for all levels of healthcare providers</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
为较小的和偏远的卒中中心提供远程卒中咨询 <i>Telestroke consultations to smaller and rural centers</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
区域卒中管理质量控制经验 <i>Regional stroke care quality control experience</i>	推荐 Recommended	推荐 Recommended	推荐 Recommended
14、开展卒中研究及学科建设			
<i>Implement stroke research and discipline development</i>			
近三年开展过卒中相关的国家级、省级继续教育项目 <i>Continuing education programs (national/provincial level)</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
近三年内新获得国家级卒中相关科研课题 <i>National level research project holder in the recent three year</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory
近三年产出卒中相关高水平学术论文及奖项 <i>High-level academic papers and awards related to stroke produced in the past three years</i>	推荐 Recommended	推荐 Recommended	必备 Mandatory