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Search Strategies for "Efficacy of Surgical Management for Spontaneous Middle Cranial Fossa CSF Leaks: A Systematic Review with Meta-Analyses"

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Search Strategies for: Efficacy of Surgical Management for Spontaneous Middle Cranial Fossa CSF Leaks: A Systematic Review with Meta-Analyses

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Outlined versions of EMBASE and MEDLINE Searches:

The yellow-, blue-, and green-highlighted sections are three different approaches to the CSF otorrhea surgery concept.

CSF otorrhea surgery (	EMBASE (	MEDLINE (
CSF otorrhea heading	"cerebrospinal fluid otorrhea"/mj	(MH "Cerebrospinal Fluid Otorrhea")
OR	OR	OR
Cerebrospinal word within three words of an otorrhea word	((("csf OR cerebrospinal) NEAR/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)):ab,kw,jt,ti)	TI ((("csf OR cerebrospinal) N2 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)))
OR	OR	OR
Middle ear within three words of a cerebrospinal word within 3 words of a leak/fistula word (remove venous fistula)	((("middle ear" NEAR/3 (csf OR cerebrospinal) NEAR/3 (leak* OR fistula*)):ab,kw,jt,ti NOT "venous fistula*":kw,ti)	OR ((("middle ear" N2 (csf OR cerebrospinal) N2 (leak* OR fistula*)) NOT TI ("venous fistula*"))
OR	OR	OR
Relevant skull bone words within 3 words of a leak/defect word	((("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") NEAR/3 (leak* OR defect*)):ab,kw,jt,ti)	OR ((("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") N2 (leak* OR defect*))
		)
		OR
		AB (

		((csf OR cerebrospinal) N2 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle ear" N2 (csf OR cerebrospinal) N2 (leak* OR fistula*)) NOT TI ("venous fistula*")) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") N2 (leak* OR defect*))) OR SO (((csf OR cerebrospinal) N2 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle ear" N2 (csf OR cerebrospinal) N2 (leak* OR fistula*)) NOT TI ("venous fistula*")) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") N2 (leak* OR defect*)))
)	)	)
AND	AND	AND
(	(	(
More specific surgery words OR	petrousectom*:ab,kw,jt,ti OR "combined repair*:ab,kw,jt,ti OR "blind sac repair*:ab,kw,jt,ti OR "blind sac closure*:ab,kw,jt,ti OR	TI (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR AB (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR SO (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR
Fistula* word within 3 words of embolization/ligation word (remove venous fistula)	((fistula* NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti NOT "venous fistula*":kw,ti)	((TI (fistula* N2 (embol* OR ligat*)) OR AB (fistula* N2 (embol* OR ligat*)) OR SO (fistula* N2 (embol* OR ligat*))) NOT TI ("venous fistula*"))
OR	OR	OR
Less specific surgery words plus CSF word plus ear word ((	((	((
Skull surgery heading	"skull surgery"/exp	(MH "Skull+/SU")

OR General surgery keywords OR Endoscop* word within 5 words of general treatment word)	OR surg*:ab,kw,jt,ti OR microsurg*:ab,kw,jt,ti OR radiosurg*:ab,kw,jt,ti OR cryosurg*:ab,kw,jt,ti OR operat*:ab,kw,jt,ti OR periop*:ab,kw,jt,ti OR postop*:ab,kw,jt,ti OR postsurg*:ab,kw,jt,ti OR perisurg*:ab,kw,jt,ti OR preop*:ab,kw,jt,ti OR presurg*:ab,kw,jt,ti OR cranioplast*:ab,kw,jt,ti OR craniotom*:ab,kw,jt,ti OR keyhole*:ab,kw,jt,ti OR repair*:ab,kw,jt,ti OR closur*:ab,kw,jt,ti OR ((endoscop* OR "minimally invasive") NEAR/5 (treat* OR therap* OR manag*)):ab,kw,jt,ti	OR TI (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur* OR ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*))) OR AB (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur* OR ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*))) OR SO (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur* OR ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)))
) AND Leak/csf words	) AND (leak*:ab,kw,jt,ti OR csf:ab,kw,jt,ti OR cerebrospinal:ab,kw,jt,ti OR otorrhe*:ab,kw,jt,ti OR liquorrh*:ab,kw,jt,ti OR otoliquorr*:ab,kw,jt,ti OR "oto liquorrh*":ab,kw,jt,ti))	) AND (TI (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*") OR AB (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*") OR SO (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*")))

OR	OR	OR
More specific surgery words	petrousectom*:ab,kw,jt,ti OR "combined repair*":ab,kw,jt,ti OR "blind sac repair*":ab,kw,jt,ti OR "blind sac closure*":ab,kw,jt,ti	TI (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR AB (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR SO (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*")
OR	OR	OR
Fistula within 3 words of an embolization/ligation word (remove venous fistula)	((fistula NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti NOT "venous fistula*":kw,ti)	((TI (fistula* N2 (embol* OR ligat*)) OR AB (fistula* N2 (embol* OR ligat*)) OR SO (fistula* N2 (embol* OR ligat*))) NOT TI ("venous fistula*"))
OR	OR	OR
Relevant spaces/ bones within 3 words of a repair word	((("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) NEAR/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)):ab,kw,jt,ti)	TI ((("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) N2 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)) OR AB ((("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) N2 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)) OR SO ((("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) N2 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR

		perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur*)
)	)	)
AND	AND	AND
Csf within 3 words of a leak/fistula word (remove venous fistula)	((((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,kw,jt,ti NOT "venous fistula*":kw,ti)	TI ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*) OR AB ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*) SO ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*)) NOT TI ("venous fistula*"))
)	)	)
OR	OR	OR
(	(	(
(	(	(
Skull surgery heading	"skull surgery"/exp	(MH "Skull+/SU")
OR	OR	OR
General surgery words	repair*:ab,kw,jt,ti OR closur*:ab,kw,jt,ti OR surg*:ab,kw,jt,ti OR (microsurg* OR radiosurg* OR cryosurg*):ab,kw,jt,ti OR operat*:ab,kw,jt,ti OR periop*:ab,kw,jt,ti OR postop*:ab,kw,jt,ti OR postsurg*:ab,kw,jt,ti OR perisurg*:ab,kw,jt,ti OR preop*:ab,kw,jt,ti OR presurg*:ab,kw,jt,ti OR cranioplast*:ab,kw,jt,ti OR craniotom*:ab,kw,jt,ti OR keyhole*:ab,kw,jt,ti OR repair*:ab,kw,jt,ti OR closur*:ab,kw,jt,ti	TI (repair* OR closur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur*) OR AB (repair* OR closur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur*) OR SO (repair* OR closur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur*) OR MW (repair* OR closur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR

		cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)
OR	OR	OR
Endoscop* OR minimally invasive within 5 words of general treatment word	((endoscop* OR "minimally invasive") NEAR/5 (treat* OR therap* OR manag*)):ab,kw,jt,ti	TI ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)) OR AB ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)) OR SO ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*))
OR	OR	OR
Fistual within 3 words of embolization/ligation word (remove venous fistula)	((fistula* NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti NOT "venous fistula*":kw,ti)	((TI (fistula* N2 (embol* OR ligat*)) OR AB (fistula* N2 (embol* OR ligat*)) OR SO (fistula* N2 (embol* OR ligat*))) NOT TI ("venous fistula*"))
)	)	)
AND	AND	AND
CSF word within 3 words of leak word	((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,kw,jt,ti)	(TI ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*)) OR AB ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*)) OR SO ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*)))
AND	AND	AND
Ear word	(oto*:ab,kw,jt,ti OR ear:ab,kw,jt,ti OR ears:ab,kw,jt,ti OR audio*:ab,kw,jt,ti OR auditor*:ab,kw,jt,ti OR aural*:ab,kw,jt,ti OR "semi circular":ab,kw,jt,ti OR semicircular:ab,kw,jt,ti OR "middle fossa*":ab,kw,jt,ti OR "temporal fossa*":ab,kw,jt,ti OR "temporal bone*":ab,kw,jt,ti OR	(TI (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR

	transmastoid:ab,kw,jt,ti OR "blind sac":ab,kw,jt,ti)	AB (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR SO (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac")
)	)	)
OR	OR	OR
Heading for CSF otorrhea surgery	"cerebrospinal fluid otorrhea"/exp/dm su	(MH "Cerebrospinal Fluid Otorrhea/SU")
)	)	)
Remove nose things that are not also about the relevant bones or ears (trying to get rid of rhinorrhea articles)	NOT ((nose:ab,kw,ti OR nasoseptal:ab,kw,ti OR nasal:ab,kw,ti OR transnasal:ab,kw,ti OR endonasal:ab,kw,ti OR rhinorrhe*:ab,kw,ti OR nasopharyn*:ab,kw,ti) NOT ("middle fossa":ab,de,kw,ti OR petrous*:ab,de,kw,ti OR transmastoid:ab,de,kw,ti OR mastoid:ab,de,kw,ti OR ear:ab,de,kw,ti OR ears:ab,de,kw,ti OR oto*:ab,de,kw,ti OR "semi circular":ab,de,kw,ti OR semicircular:ab,de,kw,ti OR aural:ab,de,kw,ti OR otic:ab,de,kw,ti OR audio*:ab,de,kw,ti OR audito*:ab,kw,de,ti))	NOT ((TI (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*) OR AB (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*)) NOT (TI ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR AB ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR SO ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR MW ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*))
Remove traumatic/iatrogenic/congenital things that are not about non-traumatic/non-iatrogenic/non-congenital	NOT ((fractur*:ab,kw,ti OR trauma*:ab,kw,ti OR iatrogenic:ab,kw,ti OR congenital:ab,kw,ti OR inborn:ab,kw,ti OR "birth defect*":ab,kw,ti OR "accidental injury"/mj OR "traumatic brain injury"/mj OR "skull fracture"/mj OR	NOT ((TI (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AB (fractur* OR trauma* OR iatrogenic OR congenital OR

	"iatrogenic disease"/mj OR "congenital disorder"/mj) NOT ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic))	inborn OR "birth defect") OR (MH "Accidental Injuries") OR (MH "Brain Injuries, Traumatic+") OR (MH "Skull Fractures+") OR (MH "Iatrogenic Disease+") OR (MH "Congenital Abnormalities+")) NOT (TI ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic) OR AB ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic)))
Remove articles with cancer or stapedectomy words in the article title or author keyword	NOT (cancer:kw,ti OR cancers:kw,ti OR cancerous:kw,ti OR carcinoma*:kw,ti OR adenocarcinoma*:kw,ti OR hepatocarcinoma*:kw,ti OR carcinosarcoma*:kw,ti OR sarcoma*:kw,ti OR histiocytoma*:kw,ti OR fibrosarcoma*:kw,ti OR osteosarcoma*:kw,ti OR chondrosarcoma*:kw,ti OR lymphosarcoma*:kw,ti OR rhabdomyosarcoma*:kw,ti OR leukemia*:kw,ti OR leukaemia*:kw,ti OR erythroleukemia*:kw,ti OR erythroleukaemia*:kw,ti OR lymphoma*:kw,ti OR melanoma*:kw,ti OR hodgkin*:kw,ti OR "multiple myeloma":kw,ti OR mesothelioma*:kw,ti OR neoplasm*:kw,ti OR neoplastic:kw,ti OR neoplasia:kw,ti OR malignan*:kw,ti OR metastases:kw,ti OR metastasis:kw,ti OR metastatic:kw,ti OR carcinoid*:kw,ti OR neuroblastoma*:kw,ti OR "mycosis fungoides":kw,ti OR "sezary syndrome":kw,ti OR retinoblastoma*:kw,ti OR pheochromocytoma*:kw,ti OR ((wilm* NEXT/2 (tumor* OR tumour*)):kw,ti) OR nephroblastoma*:kw,ti OR choriocarcinoma*:kw,ti OR "pleuropulmonary blastoma":kw,ti OR "pleuropulmonary blastomas":kw,ti OR glioblastoma*:kw,ti OR glioma*:kw,ti OR astrocytoma*:kw,ti OR ependymoma*:kw,ti OR medulloblastoma*:kw,ti OR meningioma*:kw,ti OR craniopharyngioma*:kw,ti OR myelodysplastic:kw,ti OR myeloproliferative:kw,ti OR	NOT TI (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemia* OR erythroleukemia* OR erythroleukaemia* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR (wilm* W1 (tumor* OR tumour*)) OR nephroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemia* OR macroglobulinaemia* OR

	macroglobulinemi*:kw,ti OR macroglobulinaemi*:kw,ti OR pineoblastoma*:kw,ti OR "neuroectodermal tumor":kw,ti OR "neuroectodermal tumors":kw,ti OR "neuroectodermal tumour":kw,ti OR "neuroectodermal tumours":kw,ti OR ((ewing* NEXT/2 (tumor* OR tumour*)):kw,ti) OR thymoma*:kw,ti OR tumor:kw,ti OR tumors:kw,ti OR tumorous:kw,ti OR tumour*:kw,ti OR oncol*:kw,ti OR schwannoma*:kw,ti OR "cochlear implant*":kw,ti OR (stapedectomy* OR "stapes surg*"):kw,ti)	pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* W1 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectomy* OR "stapes surg*")
Remove conference abstract	NOT "conference abstract"/it	
Only english	AND [english]/lim	AND LA ("english")
Remove articles indexed as being about animals but not indexed as being about humans.	NOT ([animals]/lim NOT [humans]/lim)	NOT (MH "Animals+" NOT MH "Humans")
Remove articles about children that are not also indexed as being about adults	NOT (([adolescent]/lim OR [child]/lim OR [infant]/lim OR [newborn]/lim) NOT ([adult]/lim OR [aged]/lim))	NOT ((MH "Adolescent" OR MH "Child+" OR MH "Infant+") NOT (MH "Adult+"))

EMBASE (via EMBASE.com):

No.

Query

#6

#4 NOT ('chapter'/it OR 'review'/it)

#5

#4 AND ('chapter'/it OR 'review'/it)

#4

((('cerebrospinal fluid otorrhea'/mj OR (((csf OR cerebrospinal) NEAR/3 (otorrhe* OR 'oto
liquorrh*' OR otoliquorrh*)):ab,kw,jt,ti) OR (((('middle ear' NEAR/3 (csf OR cerebrospinal)
NEAR/3 (leak* OR fistula*)):ab,kw,jt,ti) NOT 'venous fistula*':kw,ti) OR (((('middle fossa*' OR
'temporal fossa*' OR tegmen OR 'temporal bone*' OR 'skull base*') NEAR/3 (leak* OR
defect*)):ab,kw,jt,ti)) AND (petrousectom*:ab,kw,jt,ti OR 'combined repair*':ab,kw,jt,ti OR 'blind
sac repair*':ab,kw,jt,ti OR 'blind sac closure*':ab,kw,jt,ti OR (((fistula* NEAR/3 (embol* OR
ligat*)):ab,kw,jt,ti) NOT 'venous fistula*':kw,ti) OR (('skull surgery'/exp OR surg*:ab,kw,jt,ti OR
microsurg*:ab,kw,jt,ti OR radiosurg*:ab,kw,jt,ti OR cryosurg*:ab,kw,jt,ti OR operat*:ab,kw,jt,ti
OR periop*:ab,kw,jt,ti OR postop*:ab,kw,jt,ti OR postsurg*:ab,kw,jt,ti OR perisurg*:ab,kw,jt,ti OR
preop*:ab,kw,jt,ti OR presurg*:ab,kw,jt,ti OR cranioplast*:ab,kw,jt,ti OR craniotomy*:ab,kw,jt,ti
OR keyhole*:ab,kw,jt,ti OR repair*:ab,kw,jt,ti OR clusur*:ab,kw,jt,ti OR (((endoscop* OR
'minimally invasive') NEAR/5 (treat* OR therap* OR manag*)):ab,kw,jt,ti)) AND (leak*:ab,kw,jt,ti
OR csf:ab,kw,jt,ti OR cerebrospinal:ab,kw,jt,ti OR otorrhe*:ab,kw,jt,ti OR liquorrh*:ab,kw,jt,ti OR
otoliquorrh*:ab,kw,jt,ti OR 'oto liquorrh*':ab,kw,jt,ti))) OR ((petrousectom*:ab,kw,jt,ti OR
'combined repair*':ab,kw,jt,ti OR 'blind sac repair*':ab,kw,jt,ti OR 'blind sac closure*':ab,kw,jt,ti

OR (((fistula NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti) NOT 'venous fistula*':kw,ti) OR (((('middle fossa*' OR 'temporal fossa*' OR 'temporal bone*' OR tegmen OR 'skull base' OR transmastoid OR transcranial) NEAR/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)):ab,kw,jt,ti)) AND (((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,kw,jt,ti) NOT 'venous fistula*':kw,ti) OR (('skull surgery'/exp OR surg*:ab,kw,jt,ti OR microsurg*:ab,kw,jt,ti OR radiosurg*:ab,kw,jt,ti OR cryosurg*:ab,kw,jt,ti OR operat*:ab,kw,jt,ti OR periop*:ab,kw,jt,ti OR postop*:ab,kw,jt,ti OR postsurg*:ab,kw,jt,ti OR perisurg*:ab,kw,jt,ti OR preop*:ab,kw,jt,ti OR presurg*:ab,kw,jt,ti OR cranioplast*:ab,kw,jt,ti OR craniotom*:ab,kw,jt,ti OR keyhole*:ab,kw,jt,ti OR repair*:ab,kw,jt,ti OR clusur*:ab,kw,jt,ti OR (((endoscop* OR 'minimally invasive') NEAR/5 (treat* OR therap* OR manag*)):ab,kw,jt,ti) OR (((fistula* NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti) NOT 'venous fistula*':kw,ti)) AND (((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,kw,jt,ti) AND (oto*:ab,kw,jt,ti OR ear:ab,kw,jt,ti OR ears:ab,kw,jt,ti OR audio*:ab,kw,jt,ti OR auditor*:ab,kw,jt,ti OR aural*:ab,kw,jt,ti OR 'semi circular':ab,kw,jt,ti OR semicircular:ab,kw,jt,ti OR 'middle fossa*':ab,kw,jt,ti OR 'temporal fossa*':ab,kw,jt,ti OR 'temporal bone*':ab,kw,jt,ti OR transmastoid:ab,kw,jt,ti OR 'blind sac':ab,kw,jt,ti)) OR 'cerebrospinal fluid otorrhea'/exp/dm_su) NOT ((nose:ab,kw,ti OR nasoseptal:ab,kw,ti OR nasal:ab,kw,ti OR transnasal:ab,kw,ti OR endonasal:ab,kw,ti OR rhinorrhe*:ab,kw,ti OR nasopharyn*:ab,kw,ti) NOT ('middle fossa':ab,de,kw,ti OR petrous*:ab,de,kw,ti OR transmastoid:ab,de,kw,ti OR mastoid:ab,de,kw,ti OR ear:ab,de,kw,ti OR ears:ab,de,kw,ti OR oto*:ab,de,kw,ti OR 'semi circular':ab,de,kw,ti OR semicircular:ab,de,kw,ti OR aural:ab,de,kw,ti OR otic:ab,de,kw,ti OR audio*:ab,de,kw,ti OR audito*:ab,kw,de,ti)) NOT ((fractur*:ab,kw,ti OR trauma*:ab,kw,ti OR iatrogenic:ab,kw,ti OR congenital:ab,kw,ti OR inborn:ab,kw,ti OR 'birth defect*':ab,kw,ti OR 'accidental injury'/mj OR 'traumatic brain injury'/mj OR 'skull fracture'/mj OR 'iatrogenic disease'/mj OR 'congenital disorder'/mj) NOT ('non traumatic' OR spontaneous OR idiopathic OR 'non congenital' OR 'non iatrogenic' OR nontraumatic OR noncongenital OR noniatrogenic)) NOT (cancer:kw,ti OR cancers:kw,ti OR cancerous:kw,ti OR carcinoma*:kw,ti OR adenocarcinoma*:kw,ti OR hepatocarcinoma*:kw,ti OR carcinosarcoma*:kw,ti OR sarcoma*:kw,ti OR histiocytoma*:kw,ti OR fibrosarcoma*:kw,ti OR osteosarcoma*:kw,ti OR chondrosarcoma*:kw,ti OR lymphosarcoma*:kw,ti OR rhabdomyosarcoma*:kw,ti OR leukemia*:kw,ti OR leukaemi*:kw,ti OR erythroleukem*:kw,ti OR erythroleukaem*:kw,ti OR lymphoma*:kw,ti OR melanoma*:kw,ti OR hodgkin*:kw,ti OR 'multiple myeloma':kw,ti OR mesothelioma*:kw,ti OR neoplasm*:kw,ti OR neoplastic:kw,ti OR neoplasia:kw,ti OR malignan*:kw,ti OR metastases:kw,ti OR metastasis:kw,ti OR metastatic:kw,ti OR carcinoid*:kw,ti OR neuroblastoma*:kw,ti OR 'mycosis fungoides':kw,ti OR 'sezary syndrome':kw,ti OR retinoblastoma*:kw,ti OR pheochromocytoma*:kw,ti OR ((wilm* NEXT/2 (tumor* OR tumour*)):kw,ti) OR nephroblastoma*:kw,ti OR choriocarcinoma*:kw,ti OR 'pleuropulmonary blastoma':kw,ti OR 'pleuropulmonary blastomas':kw,ti OR glioblastoma*:kw,ti OR glioma*:kw,ti OR astrocytoma*:kw,ti OR ependymoma*:kw,ti OR medulloblastoma*:kw,ti OR meningioma*:kw,ti OR craniopharyngioma*:kw,ti OR myelodysplastic:kw,ti OR myeloproliferative:kw,ti OR macroglobulinemi*:kw,ti OR macroglobulinaemi*:kw,ti OR pineoblastoma*:kw,ti OR 'neuroectodermal tumor':kw,ti OR 'neuroectodermal tumors':kw,ti OR 'neuroectodermal tumour':kw,ti OR 'neuroectodermal tumours':kw,ti OR ((ewing* NEXT/2 (tumor* OR tumour*)):kw,ti) OR thymoma*:kw,ti OR tumor:kw,ti OR tumors:kw,ti OR

tumorous:kw,ti OR tumour*:kw,ti OR oncol*:kw,ti OR schwannoma*:kw,ti OR 'cochlear implant':kw,ti OR stapedectomy*:kw,ti OR 'stapes surg':kw,ti) NOT 'conference abstract'/it AND [english]/lim NOT ([animals]/lim NOT [humans]/lim) NOT (([adolescent]/lim OR [child]/lim OR [infant]/lim OR [newborn]/lim) NOT ([adult]/lim OR [aged]/lim))

#3

#1 NOT ('chapter'/it OR 'review'/it)

#2

#1 AND ('chapter'/it OR 'review'/it)

#1

((('cerebrospinal fluid otorrhea'/mj OR (((csf OR cerebrospinal) NEAR/3 (otorrhe* OR 'oto liquorrh*' OR otoliquorrh*)):ab,kw,jt,ti) OR (((('middle ear' NEAR/3 (csf OR cerebrospinal) NEAR/3 (leak* OR fistula*)):ab,kw,jt,ti) NOT 'venous fistula':kw,ti) OR (((('middle fossa*' OR 'temporal fossa*' OR tegmen OR 'temporal bone*' OR 'skull base*') NEAR/3 (leak* OR defect*)):ab,kw,jt,ti)) AND (petrousectom*:ab,kw,jt,ti OR 'combined repair':ab,kw,jt,ti OR 'blind sac repair':ab,kw,jt,ti OR 'blind sac closure':ab,kw,jt,ti OR (((fistula* NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti) NOT 'venous fistula':kw,ti) OR (('skull surgery'/exp OR surg*:ab,kw,jt,ti OR microsurg*:ab,kw,jt,ti OR radiosurg*:ab,kw,jt,ti OR cryosurg*:ab,kw,jt,ti OR operat*:ab,kw,jt,ti OR periop*:ab,kw,jt,ti OR postop*:ab,kw,jt,ti OR postsurg*:ab,kw,jt,ti OR perisurg*:ab,kw,jt,ti OR preop*:ab,kw,jt,ti OR presurg*:ab,kw,jt,ti OR cranioplast*:ab,kw,jt,ti OR craniotomy*:ab,kw,jt,ti OR keyhole*:ab,kw,jt,ti OR repair*:ab,kw,jt,ti OR closur*:ab,kw,jt,ti OR (((endoscop* OR 'minimally invasive') NEAR/5 (treat* OR therap* OR manag*)):ab,kw,jt,ti)) AND (leak*:ab,kw,jt,ti OR csf:ab,kw,jt,ti OR cerebrospinal:ab,kw,jt,ti OR otorrhe*:ab,kw,jt,ti OR liquorrh*:ab,kw,jt,ti OR otoliquorr*:ab,kw,jt,ti OR 'oto liquorrh*':ab,kw,jt,ti))) OR ((petrousectom*:ab,kw,jt,ti OR 'combined repair':ab,kw,jt,ti OR 'blind sac repair':ab,kw,jt,ti OR 'blind sac closure':ab,kw,jt,ti OR (((fistula NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti) NOT 'venous fistula':kw,ti) OR (((('middle fossa*' OR 'temporal fossa*' OR 'temporal bone*' OR tegmen OR 'skull base' OR transmastoid OR transcranial) NEAR/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotomy* OR keyhole* OR repair* OR closur*)):ab,kw,jt,ti)) AND (((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,kw,jt,ti) NOT 'venous fistula':kw,ti) OR (('skull surgery'/exp OR surg*:ab,kw,jt,ti OR microsurg*:ab,kw,jt,ti OR radiosurg*:ab,kw,jt,ti OR cryosurg*:ab,kw,jt,ti OR operat*:ab,kw,jt,ti OR periop*:ab,kw,jt,ti OR postop*:ab,kw,jt,ti OR postsurg*:ab,kw,jt,ti OR perisurg*:ab,kw,jt,ti OR preop*:ab,kw,jt,ti OR presurg*:ab,kw,jt,ti OR cranioplast*:ab,kw,jt,ti OR craniotomy*:ab,kw,jt,ti OR keyhole*:ab,kw,jt,ti OR repair*:ab,kw,jt,ti OR closur*:ab,kw,jt,ti OR (((endoscop* OR 'minimally invasive') NEAR/5 (treat* OR therap* OR manag*)):ab,kw,jt,ti) OR (((fistula* NEAR/3 (embol* OR ligat*)):ab,kw,jt,ti) NOT 'venous fistula':kw,ti)) AND (((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,kw,jt,ti) AND (oto*:ab,kw,jt,ti OR ear:ab,kw,jt,ti OR ears:ab,kw,jt,ti OR audio*:ab,kw,jt,ti OR auditor*:ab,kw,jt,ti OR aural*:ab,kw,jt,ti OR 'semi circular':ab,kw,jt,ti OR semicircular:ab,kw,jt,ti OR 'middle fossa*':ab,kw,jt,ti OR 'temporal fossa*':ab,kw,jt,ti OR 'temporal bone*':ab,kw,jt,ti OR transmastoid:ab,kw,jt,ti OR 'blind sac':ab,kw,jt,ti)) OR 'cerebrospinal fluid otorrhea'/exp/dm_su) NOT ((nose:ab,kw,ti OR nasoseptal:ab,kw,ti OR nasal:ab,kw,ti OR transnasal:ab,kw,ti OR endonasal:ab,kw,ti OR rhinorrhe*:ab,kw,ti OR nasopharynx*:ab,kw,ti) NOT ('middle fossa':ab,de,kw,ti OR petrous*:ab,de,kw,ti OR transmastoid:ab,de,kw,ti OR mastoid:ab,de,kw,ti

OR ear:ab,de,kw,ti OR ears:ab,de,kw,ti OR oto*:ab,de,kw,ti OR 'semi circular':ab,de,kw,ti OR semicircular:ab,de,kw,ti OR aural:ab,de,kw,ti OR otic:ab,de,kw,ti OR audio*:ab,de,kw,ti OR audito*:ab,kw,de,ti)) AND (fractur*:ab,kw,ti OR trauma*:ab,kw,ti OR iatrogenic:ab,kw,ti OR congenital:ab,kw,ti OR inborn:ab,kw,ti OR 'birth defect':ab,kw,ti OR 'accidental injury'/mj OR 'traumatic brain injury'/mj OR 'skull fracture'/mj OR 'iatrogenic disease'/mj OR 'congenital disorder'/mj) NOT ('non traumatic' OR spontaneous OR idiopathic OR 'non congenital' OR 'non iatrogenic' OR nontraumatic OR noncongenital OR noniatrogenic) NOT (cancer:kw,ti OR cancers:kw,ti OR cancerous:kw,ti OR carcinoma*:kw,ti OR adenocarcinoma*:kw,ti OR hepatocarcinoma*:kw,ti OR carcinosarcoma*:kw,ti OR sarcoma*:kw,ti OR histiocytoma*:kw,ti OR fibrosarcoma*:kw,ti OR osteosarcoma*:kw,ti OR chondrosarcoma*:kw,ti OR lymphosarcoma*:kw,ti OR rhabdomyosarcoma*:kw,ti OR leukemia*:kw,ti OR leukaemia*:kw,ti OR erythroleukem*:kw,ti OR erythroleukaem*:kw,ti OR lymphoma*:kw,ti OR melanoma*:kw,ti OR hodgkin*:kw,ti OR 'multiple myeloma':kw,ti OR mesothelioma*:kw,ti OR neoplasm*:kw,ti OR neoplastic:kw,ti OR neoplasia:kw,ti OR malignan*:kw,ti OR metastases:kw,ti OR metastasis:kw,ti OR metastatic:kw,ti OR carcinoid*:kw,ti OR neuroblastoma*:kw,ti OR 'mycosis fungoides':kw,ti OR 'sezary syndrome':kw,ti OR retinoblastoma*:kw,ti OR pheochromocytoma*:kw,ti OR ((wilm* NEXT/2 (tumor* OR tumour*)):kw,ti) OR nephroblastoma*:kw,ti OR choriocarcinoma*:kw,ti OR 'pleuropulmonary blastoma':kw,ti OR 'pleuropulmonary blastomas':kw,ti OR glioblastoma*:kw,ti OR glioma*:kw,ti OR astrocytoma*:kw,ti OR ependymoma*:kw,ti OR medulloblastoma*:kw,ti OR meningioma*:kw,ti OR craniopharyngioma*:kw,ti OR myelodysplastic:kw,ti OR myeloproliferative:kw,ti OR macroglobulinemi*:kw,ti OR macroglobulinaemi*:kw,ti OR pineoblastoma*:kw,ti OR 'neuroectodermal tumor':kw,ti OR 'neuroectodermal tumors':kw,ti OR 'neuroectodermal tumour':kw,ti OR 'neuroectodermal tumours':kw,ti OR ((ewing* NEXT/2 (tumor* OR tumour*)):kw,ti) OR thymoma*:kw,ti OR tumor:kw,ti OR tumors:kw,ti OR tumorous:kw,ti OR tumour*:kw,ti OR oncol*:kw,ti OR schwannoma*:kw,ti OR 'cochlear implant*':kw,ti OR stapedectomy*:kw,ti OR 'stapes surg*':kw,ti) NOT 'conference abstract'/it AND [english]/lim NOT ([animals]/lim NOT [humans]/lim) NOT (([adolescent]/lim OR [child]/lim OR [infant]/lim OR [newborn]/lim) NOT ([adult]/lim OR [aged]/lim))

MEDLINE (via EBSCOhost)

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Query

Limiters/Expanders

S7

(S1 OR S2 OR S3 OR (MH "Cerebrospinal Fluid Otorrhea/SU")) NOT ((((TI (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharynx*) OR AB (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharynx*)) NOT (TI ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR AB ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR MW ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*)))) NOT (TI (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemia* OR erythroleukemia* OR erythroleukaemia* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "seizure syndrome" OR retinoblastoma* OR pheochromocytoma* OR (wilm* W1 (tumor* OR tumour*)) OR neuroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemia* OR macroglobulinaemia* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* W1 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectomy* OR "stapes surgery")) NOT ((MH "Animals+" NOT MH "Humans")) NOT (((MH "Adolescent" OR MH "Child+" OR MH "Infant+") NOT (MH "Adult+"))) AND ((((TI (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AB (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR (MH "Accidental Injuries") OR (MH "Brain Injuries, Traumatic+") OR (MH "Skull Fractures+") OR (MH "Iatrogenic Disease+") OR (MH "Congenital Abnormalities+")) NOT (TI ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic) OR AB ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic))))) AND LA ("English") AND (PT ("review" OR "editorial" OR "commentary" OR "note" OR "letter"))

Search modes - Proximity

S6

(S1 OR S2 OR S3 OR (MH "Cerebrospinal Fluid Otorrhea/SU")) NOT ((((TI (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharynx*) OR AB (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharynx*)) NOT (TI ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR AB ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*)) OR MW ("middle fossa" OR

petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*))) NOT (TI (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocyto* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemia* OR erythroleukemia* OR erythroleukaemia* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR (wilm* W1 (tumor* OR tumour*)) OR neuroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemia* OR macroglobulinaemia* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* W1 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectomy* OR "stapes surg*")) NOT ((MH "Animals+" NOT MH "Humans")) NOT (((MH "Adolescent" OR MH "Child+" OR MH "Infant+") NOT (MH "Adult+"))) AND (((TI (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AB (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR (MH "Accidental Injuries") OR (MH "Brain Injuries, Traumatic+") OR (MH "Skull Fractures+") OR (MH "Iatrogenic Disease+") OR (MH "Congenital Abnormalities+")) NOT (TI ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic) OR AB ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic))))) AND LA ("English") NOT (PT ("review" OR "editorial" OR "commentary" OR "note" OR "letter"))

Search modes - Proximity

S5

(S1 OR S2 OR S3 OR (MH "Cerebrospinal Fluid Otorrhea/SU")) NOT (((TI (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhea* OR nasopharynx*) OR AB (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhea* OR nasopharynx*)) NOT (TI ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR AB ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*)))) NOT (TI (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocyto* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemia* OR erythroleukemia* OR erythroleukaemia* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR (wilm* W1 (tumor* OR tumour*)) OR neuroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR

"pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemi* OR macroglobulinaemi* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* W1 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectom* OR "stapes surg*")) NOT ((MH "Animals+" NOT MH "Humans")) NOT (((MH "Adolescent" OR MH "Child+" OR MH "Infant+") NOT (MH "Adult+"))) NOT ((((TI (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AB (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR (MH "Accidental Injuries") OR (MH "Brain Injuries, Traumatic+") OR (MH "Skull Fractures+") OR (MH "Iatrogenic Disease+") OR (MH "Congenital Abnormalities+")) NOT (TI ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic) OR AB ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic))))) AND LA ("English") AND (PT ("review" OR "editorial" OR "commentary" OR "note" OR "letter"))

Search modes - Proximity

S4

(S1 OR S2 OR S3 OR (MH "Cerebrospinal Fluid Otorrhea/SU")) NOT ((((TI (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*) OR AB (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*)) NOT (TI ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*) OR AB ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*)))) NOT (TI (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemi* OR erythroleukem* OR erythroleukaem* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR (wilm* W1 (tumor* OR tumour*)) OR nephroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemi* OR macroglobulinaemi* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* W1 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectom* OR "stapes surg*")) NOT ((MH "Animals+" NOT MH "Humans")) NOT (((MH "Adolescent" OR MH "Child+" OR MH "Infant+") NOT (MH "Adult+"))) NOT ((((TI (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AB (fractur* OR trauma* OR iatrogenic OR

congenital OR inborn OR "birth defect*") OR (MH "Accidental Injuries") OR (MH "Brain Injuries, Traumatic+") OR (MH "Skull Fractures+") OR (MH "Iatrogenic Disease+") OR (MH "Congenital Abnormalities+") NOT (TI ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic) OR AB ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic)))) AND LA ("English") NOT (PT ("review" OR "editorial" OR "commentary" OR "note" OR "letter"))

Search modes - Proximity

S3

(((MH "Skull+/SU") OR TI (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*) OR AB (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*) OR SO (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*) OR MW (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*) OR TI ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)) OR AB ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)) OR SO ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)) OR ((TI (fistula* N2 (embol* OR ligat*)) OR AB (fistula* N2 (embol* OR ligat*)) OR SO (fistula* N2 (embol* OR ligat*))) NOT TI ("venous fistula*"))) AND (TI ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*)) OR AB ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*)) OR SO ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*))) AND (TI (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR AB (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR SO (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac")))

Search modes - Proximity

S2

((TI (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR AB (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR SO (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR ((TI (fistula* N2 (embol* OR ligat*)) OR AB (fistula* N2 (embol* OR ligat*)) OR SO (fistula* N2 (embol* OR ligat*))) NOT TI ("venous fistula*")) OR (TI ("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) N2 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)) OR AB ("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) N2 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR

preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*) OR
 SO (("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base"
 OR transmastoid OR transcranial) N2 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR
 operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR
 cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*))) AND (TI ((csf OR
 cerebrospinal) N2 (leak* OR liquorrh* OR fistula*) OR AB ((csf OR cerebrospinal) N2 (leak*
 OR liquorrh* OR fistula*) SO ((csf OR cerebrospinal) N2 (leak* OR liquorrh* OR fistula*))
 NOT TI ("venous fistula*"))))

Search modes - Proximity

S1

((MH "Cerebrospinal Fluid Otorrhea") OR TI (((csf OR cerebrospinal) N2 (otorrhe* OR "oto
 liquorrh*" OR otoliquorrh*)) OR ((("middle ear" N2 (csf OR cerebrospinal) N2 (leak* OR
 fistula*)) NOT TI ("venous fistula*")) OR ((("middle fossa*" OR "temporal fossa*" OR tegmen
 OR "temporal bone*" OR "skull base*") N2 (leak* OR defect*))) OR AB (((csf OR
 cerebrospinal) N2 (otorrhe* OR "oto liquorrh*" OR otoliquorrh*)) OR ((("middle ear" N2 (csf
 OR cerebrospinal) N2 (leak* OR fistula*)) NOT TI ("venous fistula*")) OR ((("middle fossa*"
 OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") N2 (leak* OR
 defect*))) OR SO (((csf OR cerebrospinal) N2 (otorrhe* OR "oto liquorrh*" OR
 otoliquorrh*)) OR ((("middle ear" N2 (csf OR cerebrospinal) N2 (leak* OR fistula*)) NOT TI
 ("venous fistula*")) OR ((("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal
 bone*" OR "skull base*") N2 (leak* OR defect*)))) AND (TI (petrousectom* OR "combined
 repair*" OR "blind sac repair*" OR "blind sac closure*") OR AB (petrousectom* OR
 "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR SO (petrousectom* OR
 "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR ((TI (fistula* N2
 (embol* OR ligat*)) OR AB (fistula* N2 (embol* OR ligat*)) OR SO (fistula* N2 (embol* OR
 ligat*))) NOT TI ("venous fistula*")) OR (((MH "Skull+/SU") OR TI (surg* OR microsurg*
 OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg*
 OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*
 OR ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*))) OR AB (surg*
 OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg*
 OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair*
 OR clusur* OR ((endoscop* OR "minimally invasive") N4 (treat* OR therap* OR manag*)))
 OR SO (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR
 postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom*
 OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") N4 (treat* OR
 therap* OR manag*)))) AND (TI (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh*
 OR otoliquorr* OR "oto liquorrh*") OR AB (leak* OR csf OR cerebrospinal OR otorrhe* OR
 liquorrh* OR otoliquorr* OR "oto liquorrh*") OR SO (leak* OR csf OR cerebrospinal OR
 otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*"))))

Search modes - Proximity

Cochrane Library (via Wiley)

Non-traumatic:

ID Search Hits

#1 MeSH descriptor: [Cerebrospinal Fluid Otorrhea] explode all trees

#2 MeSH descriptor: [Cerebrospinal Fluid Otorrhea] explode all trees and with qualifier(s): [surgery - SU]

#3 MeSH descriptor: [Skull] explode all trees and with qualifier(s): [surgery - SU]

#4 MeSH descriptor: [Iatrogenic Disease] explode all trees

#5 MeSH descriptor: [Accidental Injuries] explode all trees

#6 MeSH descriptor: [Brain Injuries, Traumatic] explode all trees

#7 MeSH descriptor: [Skull Fractures] explode all trees

#8 MeSH descriptor: [Congenital Abnormalities] explode all trees

#9 (((csf OR cerebrospinal) NEAR/3 (otorrhe* OR "oto liquorrhea" OR otoliquorrhe*)):ab,so,ti) OR (("middle ear" NEAR/3 (csf OR "cerebrospinal fluid") NEAR/3 (leak* OR fistula*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti) OR (((("middle fossa" OR "temporal fossa" OR "middle fossae" OR "temporal fossae" OR "middle fossas" OR "temporal fossas" OR tegmen OR "temporal bone" OR "skull base" OR "temporal bones" OR "skull bases") NEAR/3 (leak* OR defect*)):ab,so,ti) 19

#10 petrousectom*:ab,so,ti OR "combined repair":ab,so,ti OR "blind sac repair":ab,so,ti OR "blind sac closure":ab,so,ti OR "combined repairs":ab,so,ti OR "blind sac repairs":ab,so,ti OR "blind sac closures":ab,so,ti

OR

((fistula* NEAR/3 (embol* OR ligat*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)

#11 surg*:ab,so,ti OR microsurg*:ab,so,ti OR radiosurg*:ab,so,ti OR cryosurg*:ab,so,ti OR operat*:ab,so,ti OR periop*:ab,so,ti OR postop*:ab,so,ti OR postsurg*:ab,so,ti OR perisurg*:ab,so,ti OR preop*:ab,so,ti OR presurg*:ab,so,ti OR cranioplast*:ab,so,ti OR craniotom*:ab,so,ti OR keyhole*:ab,so,ti OR repair*:ab,so,ti OR clousur*:ab,so,ti

OR

((endoscop* OR "minimally invasive") NEAR/5 (treat* OR therap* OR manag*)):ab,so,ti

#12 leak*:ab,so,ti OR csf:ab,so,ti OR cerebrospinal:ab,so,ti OR otorrhe*:ab,so,ti OR liquorrh*:ab,so,ti OR otoliquorr*:ab,so,ti OR "oto liquorrhea":ab,so,ti

#13 (#1 OR #9) AND (#10 OR ((#3 OR #11) AND #12))

#14 (

(

petrousectom*:ab,so,ti OR "combined repair":ab,so,ti OR "blind sac repair":ab,so,ti OR "blind sac closure":ab,so,ti OR "combined repairs":ab,so,ti OR "blind sac repairs":ab,so,ti OR "blind sac closures":ab,so,ti

OR

((fistula NEAR/3 (embol* OR ligat*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)

OR

((("middle fossa" OR "temporal fossa" OR "temporal bone" OR "middle fossae" OR "temporal fossae" OR "middle fossas" OR "temporal fossas" OR "temporal bones" OR tegmen OR "skull base" OR transmastoid OR transcranial) NEAR/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clousur*)):ab,so,ti)

)

AND

((((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)
)

#15 repair*:ab,kw,so,ti OR clusur*:ab,kw,so,ti OR

surg*:ab,so,ti OR (microsurg* OR radiosurg* OR cryosurg*):ab,so,ti

OR operat*:ab,so,ti OR periop*:ab,so,ti OR postop*:ab,so,ti OR postsurg*:ab,so,ti OR

perisurg*:ab,so,ti OR preop*:ab,so,ti OR presurg*:ab,so,ti OR cranioplast*:ab,so,ti OR

craniotom*:ab,so,ti OR keyhole*:ab,so,ti OR repair*:ab,so,ti OR clusur*:ab,so,ti

OR

((endoscop* OR "minimally invasive") NEAR/5 (treat* OR therap* OR manag*)):ab,so,ti

OR

((fistula* NEAR/3 (embol* OR ligat*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)

#16 (((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,so,ti)

AND

(oto*:ab,so,ti OR ear:ab,so,ti OR ears:ab,so,ti OR audio*:ab,so,ti OR auditor*:ab,so,ti OR

aural*:ab,so,ti OR "semi circular":ab,so,ti OR semicircular:ab,so,ti OR "middle fossa":ab,so,ti

OR "temporal fossa" OR "middle fossae" OR "temporal fossae" OR "middle fossas" OR "temporal

fossas" OR tegmen OR "temporal bone" OR "skull base" OR "temporal bones" OR

transmastoid:ab,so,ti OR "blind sac":ab,so,ti)

#17 (#3 OR #15) AND (#16)

#18 #13 OR #14 OR #17 OR #2

#19 ((nose:ab,ti OR nasoseptal:ab,ti OR nasal:ab,ti OR transnasal:ab,ti OR endonasal:ab,ti OR

rhinorrhe*:ab,ti OR nasopharyn*:ab,ti) NOT ("middle fossa":ab,kw,ti OR petrous*:ab,kw,ti OR

transmastoid:ab,kw,ti OR mastoid:ab,kw,ti OR ear:ab,kw,ti OR ears:ab,kw,ti OR oto*:ab,kw,ti OR

"semi circular":ab,kw,ti OR semicircular:ab,kw,ti OR aural:ab,kw,ti OR otic:ab,kw,ti OR

audio*:ab,kw,ti OR audito*:ab,kw,ti))

#20 #18 NOT #19

#21 fractur*:ab,ti OR trauma*:ab,ti OR iatrogenic:ab,ti OR congenital:ab,ti OR inborn:ab,ti OR

"birth defect":ab,ti OR "birth defects":ab,ti

#22 (#4 OR #5 OR #6 OR #7 OF #8 OR #21) NOT ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic)

#23 #20 NOT #22

#24 (cancer:ti OR cancers:ti OR cancerous:ti OR carcinoma*:ti OR adenocarcinoma*:ti OR

hepatocarcinoma*:ti OR carcinosarcoma*:ti OR sarcoma*:ti OR histiocytoma*:ti OR

fibrosarcoma*:ti OR osteosarcoma*:ti OR chondrosarcoma*:ti OR lymphosarcoma*:ti OR

rhabdomyosarcoma*:ti OR leukemia*:ti OR leukaemia*:ti OR erythroleukem*:ti OR

erythroleukaem*:ti OR lymphoma*:ti OR melanoma*:ti OR hodgkin*:ti OR "multiple

myeloma":ti OR mesothelioma*:ti OR neoplasm*:ti OR neoplastic:ti OR neoplasia:ti OR

malignan*:ti OR metastases:ti OR metastasis:ti OR metastatic:ti OR carcinoid*:ti OR

neuroblastoma*:ti OR "mycosis fungoides":ti OR "sezary syndrome":ti OR retinoblastoma*:ti OR

pheochromocytoma*:ti OR ((wilm* NEXT/2 (tumor* OR tumour*)):ti) OR nephroblastoma*:ti

OR choriocarcinoma*:ti OR "pleuropulmonary blastoma":ti OR "pleuropulmonary blastomas":ti
 OR glioblastoma*:ti OR glioma*:ti OR astrocytoma*:ti OR ependymoma*:ti OR
 medulloblastoma*:ti OR meningioma*:ti OR craniopharyngioma*:ti OR myelodysplastic:ti OR
 myeloproliferative:ti OR macroglobulinemi*:ti OR macroglobulinaemi*:ti OR pineoblastoma*:ti
 OR "neuroectodermal tumor":ti OR "neuroectodermal tumors":ti OR "neuroectodermal
 tumour":ti OR "neuroectodermal tumours":ti OR ((ewing* NEXT/2 (tumor* OR tumour*)):ti) OR
 thymoma*:ti OR tumor:ti OR tumors:ti OR tumorous:ti OR tumour*:ti OR oncol*:ti OR
 schwannoma*:ti OR "cochlear implant":ti OR "cochlear implants":ti OR (stapedectom* OR
 "stapes surgery" OR "stapes surgeries"):ti)

#25 #23 NOT #24

#26 "publication type" NEAR/5 conference

#27 #25 NOT #26 NOT ((Adolescen* OR Child* OR Infan* OR neonat*) NOT (Adult* OR
 "middle-aged" OR "aged" OR "elderly")):kw (reviews from CDSR retrieved from this search)

#28 Language NEAR/5 english

#29 #27 AND #28

#30 "publication type" NEAR/5 "trial registry record"

#31 #29 AND #30
 (trial registry records)

#32 #29 NOT #30
 (other)

Cochrane Library (via Wiley)

Traumatic search

ID Search Hits

#1 MeSH descriptor: [Cerebrospinal Fluid Otorrhea] explode all trees

#2 MeSH descriptor: [Cerebrospinal Fluid Otorrhea] explode all trees and with qualifier(s):
 [surgery - SU]

#3 MeSH descriptor: [Skull] explode all trees and with qualifier(s): [surgery - SU]

#4 MeSH descriptor: [Iatrogenic Disease] explode all trees

#5 MeSH descriptor: [Accidental Injuries] explode all trees

#6 MeSH descriptor: [Brain Injuries, Traumatic] explode all trees

#7 MeSH descriptor: [Skull Fractures] explode all trees

#8 MeSH descriptor: [Congenital Abnormalities] explode all trees

#9 MeSH descriptor: [Cerebrospinal Fluid Otorrhea] explode all trees

#10 MeSH descriptor: [Cerebrospinal Fluid Otorrhea] explode all trees and with qualifier(s):
 [surgery - SU]

#11 MeSH descriptor: [Skull] explode all trees and with qualifier(s): [surgery - SU]

#12 MeSH descriptor: [Iatrogenic Disease] explode all trees

#13 MeSH descriptor: [Accidental Injuries] explode all trees

#14 MeSH descriptor: [Brain Injuries, Traumatic] explode all trees

#15 MeSH descriptor: [Skull Fractures] explode all trees

#16 MeSH descriptor: [Congenital Abnormalities] explode all trees

#17 (((csf OR cerebrospinal) NEAR/3 (otorrhe* OR "oto liquorrhea" OR otoliquorrhe*)):ab,so,ti) OR (("middle ear" NEAR/3 (csf OR "cerebrospinal fluid") NEAR/3 (leak* OR fistula*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti) OR (((("middle fossa" OR "temporal fossa" OR "middle fossae" OR "temporal fossae" OR "middle fossas" OR "temporal fossas" OR tegmen OR "temporal bone" OR "skull base" OR "temporal bones" OR "skull bases") NEAR/3 (leak* OR defect*)):ab,so,ti)

#18 petrousectom*:ab,so,ti OR "combined repair":ab,so,ti OR "blind sac repair":ab,so,ti OR "blind sac closure":ab,so,ti OR "combined repairs":ab,so,ti OR "blind sac repairs":ab,so,ti OR "blind sac closures":ab,so,ti

OR

((fistula* NEAR/3 (embol* OR ligat*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)

#19 surg*:ab,so,ti OR microsurg*:ab,so,ti OR radiosurg*:ab,so,ti OR cryosurg*:ab,so,ti OR operat*:ab,so,ti OR periop*:ab,so,ti OR postop*:ab,so,ti OR postsurg*:ab,so,ti OR perisurg*:ab,so,ti OR preop*:ab,so,ti OR presurg*:ab,so,ti OR cranioplast*:ab,so,ti OR craniotom*:ab,so,ti OR keyhole*:ab,so,ti OR repair*:ab,so,ti OR closur*:ab,so,ti

OR

((endoscop* OR "minimally invasive") NEAR/5 (treat* OR therap* OR manag*)):ab,so,ti

#20 leak*:ab,so,ti OR csf:ab,so,ti OR cerebrospinal:ab,so,ti OR otorrhe*:ab,so,ti OR liquorrh*:ab,so,ti OR otoliquorr*:ab,so,ti OR "oto liquorrhea":ab,so,ti

#21 (#9 OR #17) AND (#18 OR ((#11 OR #19) AND #20))

#22 (

(

petrousectom*:ab,so,ti OR "combined repair":ab,so,ti OR "blind sac repair":ab,so,ti OR "blind sac closure":ab,so,ti OR "combined repairs":ab,so,ti OR "blind sac repairs":ab,so,ti OR "blind sac closures":ab,so,ti

OR

((fistula NEAR/3 (embol* OR ligat*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)

OR

((("middle fossa" OR "temporal fossa" OR "temporal bone" OR "middle fossae" OR "temporal fossae" OR "middle fossas" OR "temporal fossas" OR "temporal bones" OR tegmen OR "skull base" OR transmastoid OR transcranial) NEAR/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR closur*)):ab,so,ti)

)

AND

((((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR "venous fistula"):ti)

)

#23 repair*:ab,kw,so,ti OR closur*:ab,kw,so,ti OR surg*:ab,so,ti OR (microsurg* OR radiosurg* OR cryosurg*):ab,so,ti

OR operat*:ab,so,ti OR periop*:ab,so,ti OR postop*:ab,so,ti OR postsurg*:ab,so,ti OR
 perisurg*:ab,so,ti OR preop*:ab,so,ti OR presurg*:ab,so,ti OR cranioplast*:ab,so,ti OR
 craniotom*:ab,so,ti OR keyhole*:ab,so,ti OR repair*:ab,so,ti OR closur*:ab,so,ti
 OR
 ((endoscop* OR "minimally invasive") NEAR/5 (treat* OR therap* OR manag*)):ab,so,ti
 OR
 ((fistula* NEAR/3 (embol* OR ligat*)):ab,so,ti NOT ("venous fistulae" OR "venous fistulas" OR
 "venous fistula"):ti)
 #24 (((csf OR cerebrospinal) NEAR/3 (leak* OR liquorrh* OR fistula*)):ab,so,ti)
 AND
 (oto*:ab,so,ti OR ear:ab,so,ti OR ears:ab,so,ti OR audio*:ab,so,ti OR auditor*:ab,so,ti OR
 aural*:ab,so,ti OR "semi circular":ab,so,ti OR semicircular:ab,so,ti OR "middle fossa":ab,so,ti
 OR "temporal fossa" OR "middle fossae" OR "temporal fossae" OR "middle fossas" OR "temporal
 fossas" OR tegmen OR "temporal bone" OR "skull base" OR "temporal bones" OR
 transmastoid:ab,so,ti OR "blind sac":ab,so,ti)
 #25 (#11 OR #23) AND (#24)
 #26 #21 OR #22 OR #25 OR #10
 #27 ((nose:ab,ti OR nasoseptal:ab,ti OR nasal:ab,ti OR transnasal:ab,ti OR endonasal:ab,ti OR
 rhinorrhe*:ab,ti OR nasopharyn*:ab,ti) NOT ("middle fossa":ab,kw,ti OR petrous*:ab,kw,ti OR
 transmastoid:ab,kw,ti OR mastoid:ab,kw,ti OR ear:ab,kw,ti OR ears:ab,kw,ti OR oto*:ab,kw,ti OR
 "semi circular":ab,kw,ti OR semicircular:ab,kw,ti OR aural:ab,kw,ti OR otic:ab,kw,ti OR
 audio*:ab,kw,ti OR audito*:ab,kw,ti))
 #28 #26 NOT #27
 #29 fractur*:ab,ti OR trauma*:ab,ti OR iatrogenic:ab,ti OR congenital:ab,ti OR inborn:ab,ti OR
 "birth defect":ab,ti OR "birth defects":ab,ti
 #30 (#12 OR #13 OR #14 OR #15 OF #16 OR #29) NOT ("non traumatic" OR spontaneous OR
 idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR
 noniatrogenic)
 #31 #28 AND #30
 #32 (cancer:ti OR cancers:ti OR cancerous:ti OR carcinoma*:ti OR adenocarcinoma*:ti OR
 hepatocarcinoma*:ti OR carcinosarcoma*:ti OR sarcoma*:ti OR histiocytoma*:ti OR
 fibrosarcoma*:ti OR osteosarcoma*:ti OR chondrosarcoma*:ti OR lymphosarcoma*:ti OR
 rhabdomyosarcoma*:ti OR leukemia*:ti OR leukaemia*:ti OR erythroleukem*:ti OR
 erythroleukaem*:ti OR lymphoma*:ti OR melanoma*:ti OR hodgkin*:ti OR "multiple
 myeloma":ti OR mesothelioma*:ti OR neoplasm*:ti OR neoplastic:ti OR neoplasia:ti OR
 malignan*:ti OR metastases:ti OR metastasis:ti OR metastatic:ti OR carcinoid*:ti OR
 neuroblastoma*:ti OR "mycosis fungoides":ti OR "sezary syndrome":ti OR retinoblastoma*:ti OR
 pheochromocytoma*:ti OR ((wilm* NEXT/2 (tumor* OR tumour*)):ti) OR neuroblastoma*:ti
 OR choriocarcinoma*:ti OR "pleuropulmonary blastoma":ti OR "pleuropulmonary blastomas":ti
 OR glioblastoma*:ti OR glioma*:ti OR astrocytoma*:ti OR ependymoma*:ti OR
 medulloblastoma*:ti OR meningioma*:ti OR craniopharyngioma*:ti OR myelodysplastic:ti OR
 myeloproliferative:ti OR macroglobulinemi*:ti OR macroglobulinaemi*:ti OR pineoblastoma*:ti
 OR "neuroectodermal tumor":ti OR "neuroectodermal tumors":ti OR "neuroectodermal
 tumour":ti OR "neuroectodermal tumours":ti OR ((ewing* NEXT/2 (tumor* OR tumour*)):ti) OR

thymoma*:ti OR tumor:ti OR tumors:ti OR tumorous:ti OR tumour*:ti OR oncol*:ti OR schwannoma*:ti OR "cochlear implant":ti OR "cochlear implants":ti OR (stapedectomy* OR "stapes surgery" OR "stapes surgeries"):ti)
 #33 #31 NOT #32 NOT ((Adolescen* OR Child* OR Infan* OR neonat*) NOT (Adult* OR "middle-aged" OR "aged" OR "elderly")):kw
 #34 "publication type" NEAR/5 conference
 #35 #33 NOT #34
 #36 Language NEAR/5 english
 #37 #35 AND #36
 #38 "publication type" NEAR/3 "trial registry record"
 #39 #37 AND #38
 #40 #37 NOT #38

Scopus

The search must be broken into pieces which are joined using the search history. Scopus displays a one-line version of the search, thus, produced, but if this one line version is copied and pasted into the Scopus advanced search box, it will not produce results.

#1	(((KEY ("cerebrospinal fluid otorrhea") OR TITLE-ABS (((csf OR cerebrospinal) W/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") W/3 (leak* OR defect*))) OR AUTHKEY (((csf OR cerebrospinal) W/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") W/3 (leak* OR defect*))) OR SRCTITLE (((csf OR cerebrospinal) W/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") W/3 (leak* OR defect*))) OR ((TITLE-ABS ("middle ear" W/3 (csf OR "cerebrospinal fluid") W/3 (leak* OR fistula*)) OR AUTHKEY ("middle ear" W/3 (csf OR "cerebrospinal fluid") W/3 (leak* OR fistula*)) OR SRCTITLE ("middle ear" W/3 (csf OR "cerebrospinal fluid") W/3 (leak* OR fistula*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*"))) AND (TITLE-ABS (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR AUTHKEY (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR SRCTITLE (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR ((TITLE-ABS (fistula* W/3 (embol* OR ligat*)) OR AUTHKEY (fistula* W/3 (embol* OR ligat*)) OR SRCTITLE (fistula* W/3 (embol* OR ligat*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*"))) OR ((KEY ("skull surgery") OR TITLE-ABS (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR AUTHKEY (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR
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	keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR SRCTITLE (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*)))) AND (TITLE-ABS (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*") OR AUTHKEY (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*") OR SRCTITLE (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*")))) OR (((TITLE-ABS (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*" OR (("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) W/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*))) OR AUTHKEY (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*" OR (("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) W/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*))) OR SRCTITLE (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*" OR (("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) W/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*)))) OR ((TITLE-ABS (fistula* W/3 (embol* OR ligat*)) OR AUTHKEY (fistula* W/3 (embol* OR ligat*)) OR SRCTITLE (fistula* W/3 (embol* OR ligat*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*")))) AND ((TITLE-ABS ((csf OR cerebrospinal) W/3 (leak* OR fistula*)) OR AUTHKEY ((csf OR cerebrospinal) W/3 (leak* OR fistula*)) OR SRCTITLE ((csf OR cerebrospinal) W/3 (leak* OR fistula*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*"))))) OR ((("skull surgery" /exp OR TITLE-ABS (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR AUTHKEY (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR SRCTITLE (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally
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	invasive") W/5 (treat* OR therap* OR manag*))) OR ((TITLE-ABS (fistula* W/3 (embol* OR ligat*)) OR AUTHKEY (fistula* W/3 (embol* OR ligat*)) OR SRCTITLE (fistula* W/3 (embol* OR ligat*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*")))) AND (TITLE-ABS ((csf OR cerebrospinal) W/3 (leak* OR liquorrh* OR fistula*)) OR AUTHKEY ((csf OR cerebrospinal) W/3 (leak* OR liquorrh* OR fistula*)) OR SRCTITLE ((csf OR cerebrospinal) W/3 (leak* OR liquorrh* OR fistula*))) AND (TITLE-ABS (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR AUTHKEY (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR SRCTITLE (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac")))) OR (KEY ("cerebrospinal fluid otorrhea" PRE/1 surgery)))
#2	(((TITLE-ABS (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*) OR AUTHKEY (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*)) AND NOT TITLE-ABS-KEY ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*)))
#3	#1 AND NOT #2
#4	(TITLE (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemi* OR erythroleukem* OR erythroleukaem* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR ((wilm* PRE/2 (tumor* OR tumour*))) OR nephroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemi* OR macroglobulinaemi* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* PRE/2 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectom* OR "stapes surg*") OR AUTHKEY (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemi* OR erythroleukem* OR erythroleukaem* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR

	neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR ((wilm* PRE/2 (tumor* OR tumour*))) OR nephroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemi* OR macroglobulinaemi* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* PRE/2 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectom* OR "stapes surg*"))
#5	#3 AND NOT #4
#6	(("adolescen*" OR "child*" OR "infan*" OR "neonat*") AND NOT ("adult" OR "middle-aged" OR "aged" OR "elderly"))
#7	#5 AND NOT #6
#8	(((TITLE-ABS (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AUTHKEY (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR KEY ("accidental injur*" OR "traumatic brain injur*" OR "brain injuries, traumatic" OR "skull fracture*" OR "iatrogenic disease" OR "congenital disorder" OR "congenital abnormalities")) AND NOT TITLE-ABS-KEY ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic)))
#9	#7 AND #8
	When the following are added, the "traumatic, reviews" search is produced : AND (LIMIT-TO (LANGUAGE , "English")) AND (LIMIT-TO (DOCTYPE , "re") OR LIMIT-TO (DOCTYPE , "ch") OR LIMIT-TO (DOCTYPE , "bk"))
	When the following are added, the "traumatic, other" search is produced : AND (LIMIT-TO (LANGUAGE , "English")) AND (EXCLUDE (DOCTYPE , "re") OR EXCLUDE (DOCTYPE , "ch") OR EXCLUDE (DOCTYPE , "bk"))

Scopus, "Non-traumatic" searches

#1	(((KEY ("cerebrospinal fluid otorrhea") OR TITLE-ABS (((csf OR cerebrospinal) W/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") W/3 (leak* OR defect*))) OR AUTHKEY (((csf OR cerebrospinal) W/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") W/3 (leak* OR defect*))) OR SRCTITLE (((csf OR cerebrospinal) W/3 (otorrhe* OR "oto liquorrhe*" OR otoliquorrhe*)) OR (("middle fossa*" OR "temporal fossa*" OR tegmen OR "temporal bone*" OR "skull base*") W/3 (leak* OR defect*))) OR ((TITLE-ABS ("middle ear" W/3 (csf OR "cerebrospinal fluid") W/3 (leak* OR fistula*)) OR
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AUTHKEY ("middle ear" W/3 (csf OR "cerebrospinal fluid") W/3 (leak* OR fistula*)) OR SRCTITLE ("middle ear" W/3 (csf OR "cerebrospinal fluid") W/3 (leak* OR fistula*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*"))) AND (TITLE-ABS (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR AUTHKEY (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR SRCTITLE (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*") OR ((TITLE-ABS (fistula* W/3 (embol* OR ligat*)) OR AUTHKEY (fistula* W/3 (embol* OR ligat*)) OR SRCTITLE (fistula* W/3 (embol* OR ligat*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*"))) OR ((KEY ("skull surgery") OR TITLE-ABS (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR AUTHKEY (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR SRCTITLE (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*)))) AND (TITLE-ABS (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*") OR AUTHKEY (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*") OR SRCTITLE (leak* OR csf OR cerebrospinal OR otorrhe* OR liquorrh* OR otoliquorr* OR "oto liquorrh*")))) OR (((TITLE-ABS (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*" OR ("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) W/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*))) OR AUTHKEY (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*" OR ("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) W/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*))) OR SRCTITLE (petrousectom* OR "combined repair*" OR "blind sac repair*" OR "blind sac closure*" OR ("middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR tegmen OR "skull base" OR transmastoid OR transcranial) W/3 (surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur*))) OR ((TITLE-ABS (fistula* W/3 (embol* OR ligat*)) OR AUTHKEY (fistula* W/3 (embol* OR ligat*)) OR SRCTITLE (

	fistula* W/3 (embol* OR ligat*)) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*"))) AND ((TITLE-ABS ((csf OR cerebrospinal) W/3 (leak* OR fistula*)) OR AUTHKEY ((csf OR cerebrospinal) W/3 (leak* OR fistula*)) OR SRCTITLE ((csf OR cerebrospinal) W/3 (leak* OR fistula*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*")))) OR (("skull surgery" /exp OR TITLE-ABS (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR AUTHKEY (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR SRCTITLE (repair* OR clusur* OR surg* OR microsurg* OR radiosurg* OR cryosurg* OR operat* OR periop* OR postop* OR postsurg* OR perisurg* OR preop* OR presurg* OR cranioplast* OR craniotom* OR keyhole* OR repair* OR clusur* OR ((endoscop* OR "minimally invasive") W/5 (treat* OR therap* OR manag*))) OR ((TITLE-ABS (fistula* W/3 (embol* OR ligat*)) OR AUTHKEY (fistula* W/3 (embol* OR ligat*)) OR SRCTITLE (fistula* W/3 (embol* OR ligat*))) AND NOT (TITLE ("venous fistula*") OR AUTHKEY ("venous fistula*")))) AND (TITLE-ABS ((csf OR cerebrospinal) W/3 (leak* OR liquorrh* OR fistula*)) OR AUTHKEY ((csf OR cerebrospinal) W/3 (leak* OR liquorrh* OR fistula*)) OR SRCTITLE ((csf OR cerebrospinal) W/3 (leak* OR liquorrh* OR fistula*))) AND (TITLE-ABS (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR AUTHKEY (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac") OR SRCTITLE (oto* OR ear OR ears OR audio* OR auditor* OR aural* OR "semi circular" OR semicircular OR "middle fossa*" OR "temporal fossa*" OR "temporal bone*" OR transmastoid OR "blind sac")))) OR (KEY ("cerebrospinal fluid otorrhea" PRE/1 surgery)))
#2	(((TITLE-ABS (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*) OR AUTHKEY (nose OR nasoseptal OR nasal OR transnasal OR endonasal OR rhinorrhe* OR nasopharyn*)) AND NOT TITLE-ABS-KEY ("middle fossa" OR petrous* OR transmastoid OR mastoid OR ear OR ears OR oto* OR "semi circular" OR semicircular OR aural OR otic OR audio* OR audito*)))
#3	#1 AND NOT #2
#4	(TITLE (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemi* OR erythroleukem* OR erythroleukaem* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR

	malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR ((wilm* PRE/2 (tumor* OR tumour*))) OR nephroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemi* OR macroglobulinaemi* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* PRE/2 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectomy* OR "stapes surg*") OR AUTHKEY (cancer OR cancers OR cancerous OR carcinoma* OR adenocarcinoma* OR hepatocarcinoma* OR carcinosarcoma* OR sarcoma* OR histiocytoma* OR fibrosarcoma* OR osteosarcoma* OR chondrosarcoma* OR lymphosarcoma* OR rhabdomyosarcoma* OR leukemia* OR leukaemi* OR erythroleukem* OR erythroleukaem* OR lymphoma* OR melanoma* OR hodgkin* OR "multiple myeloma" OR mesothelioma* OR neoplasm* OR neoplastic OR neoplasia OR malignan* OR metastases OR metastasis OR metastatic OR carcinoid* OR neuroblastoma* OR "mycosis fungoides" OR "sezary syndrome" OR retinoblastoma* OR pheochromocytoma* OR ((wilm* PRE/2 (tumor* OR tumour*))) OR nephroblastoma* OR choriocarcinoma* OR "pleuropulmonary blastoma" OR "pleuropulmonary blastomas" OR glioblastoma* OR glioma* OR astrocytoma* OR ependymoma* OR medulloblastoma* OR meningioma* OR craniopharyngioma* OR myelodysplastic OR myeloproliferative OR macroglobulinemi* OR macroglobulinaemi* OR pineoblastoma* OR "neuroectodermal tumor" OR "neuroectodermal tumors" OR "neuroectodermal tumour" OR "neuroectodermal tumours" OR (ewing* PRE/2 (tumor* OR tumour*)) OR thymoma* OR tumor OR tumors OR tumorous OR tumour* OR oncol* OR schwannoma* OR "cochlear implant*" OR stapedectomy* OR "stapes surg*"))
#5	#3 AND NOT #4
#6	(("adolescen*" OR "child*" OR "infan*" OR "neonat*") AND NOT ("adult" OR "middle-aged" OR "aged" OR "elderly"))
#7	#5 AND NOT #6
#8	(((TITLE-ABS (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR AUTHKEY (fractur* OR trauma* OR iatrogenic OR congenital OR inborn OR "birth defect*") OR KEY ("accidental injur*" OR "traumatic brain injur*" OR "brain injuries, traumatic" OR "skull fracture*" OR "iatrogenic disease" OR "congenital disorder" OR "congenital abnormalities")) AND NOT TITLE-ABS-KEY ("non traumatic" OR spontaneous OR idiopathic OR "non congenital" OR "non iatrogenic" OR nontraumatic OR noncongenital OR noniatrogenic)))
#9	#7 AND NOT #8
	When -- AND (LIMIT-TO (LANGUAGE,"English")) AND (LIMIT-TO (DOCTYPE,"re") OR LIMIT-TO (DOCTYPE,"ch") OR LIMIT-TO (DOCTYPE,"ed") OR LIMIT-TO (

	DOCTYPE,"bk") OR LIMIT-TO (DOCTYPE,"no")) – is added the "non-traumatic, review" search is produced.
	When -- AND (LIMIT-TO (LANGUAGE,"English")) AND (EXCLUDE (DOCTYPE,"re") OR EXCLUDE (DOCTYPE,"ch") OR EXCLUDE (DOCTYPE,"no") OR EXCLUDE (DOCTYPE,"ed") OR EXCLUDE (DOCTYPE,"bk")) – is added the "non-traumatic, ther" search is produced.