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Сучасні методи фіксації хребта при травматичному пошкодженні краніовертебрального з'єднання, результати оперативного втручання

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Проаналізовані результати лікування 11 потерпілих з травматичним пошкодженням краніовертебрального з'єднання (КВЗ) з застосуванням сучасних фіксуючих систем за період з 2001 по 2003 р.

У 8 хворих здійснено задню окципітоцервікальну стабілізацію (ОЦС) в різних модифікаціях, 3 — оперовані з використанням передніх методів (у 2 — трансоральне видалення зуба C_6 хребця з подальшою стабілізацією, в 1 — його трансдентальна фіксація гвинтами). У віддаленому післяопераційному періоді в усіх хворих спостерігали формування кісткової мозолі, вторинної нестабільності КВЗ не було. Вивчені особливості оперативної техніки при встановленні різних видів сучасних фіксуючих систем. Відзначено суттєве поліпшення результатів лікування травматичної нестабільності КВЗ при застосуванні сучасних фіксуючих систем.

Ключові слова: травма краніовертебрального з'єднання, окципітоцервікальна фіксація, атлантоаксціальний артродез, трансдентальна гвинтова фіксація.

Травматичне пошкодження КВЗ — це особливий розділ спінальної патології за даними останніх досліджень, його частота становить до 20% всіх видів пошкодження шийного відділу хребта (ШВХ) [1, 17]. Унікальна анатомія цієї ділянки зумовлює різноманітність травматичного ураження, а отже, численні варіанти лікування.

Виділяють такі види травматичного пошкодження КВЗ: 1) перелом потиличних м'язових (1–3% травм КВЗ); 2) різні варіанти перелому атланта — тип Jefferson (3–13% пошкоджень ШВХ) [17], 25% — у хворих з травмою атлантоаксціального комплексу (близько 2% всіх спінальних пошкоджень); 3) переломи зуба C_6 трьох типів за класифікацією Anderson та D'Alonzo (близько 10% пошкоджень ШВХ); 4) перелом тіла C_6 ; 5) травматичний спондилолітез C_6 хребця (перелом хагман), трьох типів за класифікацією Effendi (12–18% пошкоджень ШВХ) [1]; 6) поєднане остеолігаментарне пошкодження. Ізольоване пошкодження зв'язок також спричиняє атланта-окципітальну та атланта-аксильну дислокацію.

Травматичне пошкодження КВЗ часто є фатальним на місці події, проте, навіть у пацієнтів, що пережили таку травму, високий ризик виникнення повторного зміщення та додаткової компресії спинного мозку.

Сучасні оперативні втручання з приводу ураження КВЗ спрямовані на декомпресію нервових структур та забезпечення надійної стабілізації краніоцервікальної ділянки. Як правило, за наявності таких пошкоджень здійснювали операцію з застосуванням громіздких систем, які охоплювали потиличну кістку, C_1 ,

$C_{2/3}$, $C_{3/4}$ і навіть C_6 хребці. Фіксацію в основному виконували за дуги шийних хребців. Останнім часом відзначено тенденцію до мінімізації розмірів фіксуючої системи, стабілізації тільки пошкоджених хребців. Так, широко використовують трансартикулярне, трансспецикулярне закріплення стабілізуючих систем шурупами. Почали впроваджувати стабілізацію за мисцелки C_6 , C_7 хребців, стабілізацію перелому зуба гвинтом, проведенням крізь тіло C_6 .

Матеріали і методи. Проаналізовані віддалені (у строки 6–12 міс) результати лікування 11 хворих (7 чоловіків, 4 жінки віком від 20 до 66 років, в середньому 42,2 року), яких оперували в клініці з використанням сучасних стабілізуючих систем у 2001–2003 рр., в основному, з приводу травматичної нестабільності КВЗ (див. таблицю).

В більшості спостережень травма виникла внаслідок дорожньо-транспортної пригоди та падіння з висоти, в одного хворого атланто-аксціальна дислокація виникла після сеансу мануальної терапії.

Основними клінічними ознаками були інтенсивний больовий синдром з радікулярного C_6 , C_7 іррадіацією, у 4 хворих — тетрапарез різного ступеня вираженості. В усіх пацієнтів спостерігали обмеження рухів у КВЗ і зумовлене цим вимушене положення голови.

Всім хворим проведено рентгенографічне дослідження, магніторезонансна томографія, 6 хворим — комп'ютерна томографія (КТ) КВЗ з 3D-цифровою реконструкцією.

Оперативні втручання виконували з застосуванням передніх та задніх фіксуючих систем. Встановлені 5 різних типів стабілізуючих систем.

Sovremennye Personaltekhnologii

**Fredrik Johansson, Anders
Ansell, Daniel Johansson, Johan
Funehag, Jenny Norrman**



Sovremennye Personaltehnologii:

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