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ВОЗМОЖНОСТИ КОМПЬЮТЕРНОЙ ТОМОГРАФИИ В КОМПЛЕКСНОЙ ОЦЕНКЕ СКОЛИОТИЧЕСКОЙ ДЕФОРМАЦИИ ПОЗВОНОЧНИКА

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Проведена комплексная оценка сколиотической деформации позвоночника методом компьютерной томографии. Обследовано 50 пациентов с III и IV степенью диспластического сколиоза до и после оперативного лечения — дорсальной коррекции и фиксации позвоночника системой Cotrel—Dubouset. Существенной деротации позвоночника на вершине деформации после оперативного лечения не отмечено. Изучены и количественно оценены изменения грудной клетки в плоскости вершинного позвонка: во всех случаях после операции грудная клетка приобрела более правильную овальную форму. Результаты, полученные при исследовании плотности трабекулярной кости тел вершинного и нейтральных позвонков, согласуются с представлениями об асимметрии костной плотности тел деформированных позвонков; существенных изменений непосредственно после оперативного лечения не обнаружено. При сочетании КТ с миелографией установлены дислокация дурального мешка в сторону, противоположную выпуклости деформации, частичное (на 60—70% у пациентов с деформацией III—начальной IV степени) или полное (у пациентов с тяжелыми деформациями) нарушение распространения контрастного вещества в субарахноидальном пространстве с выпуклой стороны и компенсаторное расширение субарахноидального пространства с противоположной стороны с максимальной выраженностью изменений на вершине сколиотической деформации.

Complex evaluation of scoliotic deformity was performed using CT. Fifty patients with dysplastic scoliosis of III—IV degree were examined before and after surgical intervention — dorsal correction and spine fixation with Cotrel—Dubouset instrumentation. No marked derotation of spine at the deformity apex was noted postoperatively. Changes of thorax in the plane of apical vertebra were studied and quantitatively evaluated: postoperatively thorax became of more correct oval shape in all cases. Density of trabecular bone of apical and neutral vertebrae coincided with the understanding about asymmetry of deformed vertebrae bone density. No marked immediate postoperative changes were noted. Combination of CT and myelography showed the dislocation of dural sac to the side opposite to the deformity convexity; either partial (up to 60—70% in patients with deformity of III and early IV degree) or complete (in patients with severe deformity) disturbance of contrast distribution in subarachnoid space from concave side and compensatory widening of subarachnoid space from the opposite side with maximum changes at the apex of scoliotic deformity.

Деформация позвоночника при диспластическом сколиозе является сложной трехплоскостной, сочетающей в себе нарушения расположения позвоночника во фронтальной, сагиттальной и горизонтальной плоскостях. Сколиотическая деформация описывается не только геометрическими изменениями физиологических дуг в различных проекциях, но и локальной геометрической деформацией тел самих позвонков, называемой клиновидностью, и нарушением анатомических соотношений между передними и задними элементами позвонка, называемым торсией. В клинической практике сколиотическая деформация обычно оценивается измерениями в двух проекциях. Определяются такие общие параметры, как нейтральные, вершинные позвонки, величина угла по Cobb, и локальные параметры — осевая ротация по Perdriolle. Однако эти двухплоскостные измерения не дают истинного представления о трех-

плоскостной деформации позвоночника, не позволяют достоверно судить о степени ротации, торсионных изменениях, о расположении спинного мозга в деформированном позвоночном канале. Измененная структура костной ткани тел позвонков, являющаяся причиной или проявлением деформации, не может быть изучена по обзорной рентгенограмме. Асимметрия грудной клетки и изменение ее формы после оперативного лечения сколиотической деформации не могут быть объективизированы по данным рентгенографии в переднезадней и боковой проекциях. Более широкие возможности в этом плане обеспечивают методики, основанные на получении изображений в двух плоскостях.

МАТЕРИАЛ И МЕТОДЫ

За период с 1998 по 2002 г. в отделении патологии позвоночника ЦИТО 50 больным сколиозом проведено одностороннее хирургическое лечение —

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