

Patent Claims

1. A system for monitoring respectively at least one blood parameter of the
5 blood of various patients (1, 2, 3), comprising:

- a plurality of access devices (1a, 2a, 3a) for establishing respectively at least one access to the blood of each patient (1, 2, 3) through his or her skin;

- a plurality of sampling devices (1b, 2b, 3b) for respectively taking an amount of
10 blood from each patient (1-3), in order to obtain respectively at least one blood sample;

- a blood analysis device (7, 9) that can be commonly used for a plurality of blood samples from different patients (1-3), for analysing the blood sample with respect to specifiable parameters of the blood;

- a common calculation device (15) for calculating medicament parameters of
15 the medicaments to be administered to the respective patients (1-3), on the basis of data records of the determined parameters of the analysed blood; and

~~- a plurality of feeding devices (19-21) for feeding the respective medicament with the calculated medicament parameters,~~

~~characterised in that~~

20 an association device (11) for associating respectively one identification label for identifying a patient and/or a time period label for indicating a time period during which the blood was taken, to each data record of the parameters of the analysed blood of a patient (1-3), which were determined by the blood analysis device (7, 9),

characterised by

25 - a plurality of feeding devices (19-21) for feeding the respective medicament to the respective patient (1-3), wherein

each data set of medicament parameters, including a dose unit, for the respective patient, together with the identification code and/or period of time code, is transmitted as a common data set in a wired or wireless manner from the calculation
30 device (15) to at least one respective feeding device (19, 20, 21); and

the at least one respective feeding device (19, 20, 21) supplies a corresponding amount of the respective medicament according to the common data set to the respective patient (1-3).

2. The system as claimed in claim 1, characterised in that the association device (11) is provided within the blood analysis device (7)

~~3. The system as claimed in claim 1 or 2, characterised in that each data record of the determined parameters of the analysed blood can be transferred in a wired or wireless manner respectively as a common data record from the blood analysis device (7, 9) to one or more feeding devices (19, 20, 21) together with the patient-specific identification label and the time period label.~~

43. The system as claimed in any one of the preceding claims, characterised by at least one identification element generation device (25), by means of which the identification label and/or the time unit label can be associated with each blood sample on the sampling device (25) containing the blood sample immediately after the amount of blood has been taken and prior to it having been fed to the blood analysis device (7, 9), in the form of a barcode, a data matrix code and/or a transponder.

54. The system as claimed in any one of the preceding claims, characterised in that the blood analysis device (7, 9) includes a reading unit (7a) for reading the barcode, the data matrix code and/or the transponder.

~~65.~~ The system as claimed in claim ~~5~~ 4, characterised in that the blood analysis device (7, 9) is connected to the calculation device (15) and the latter is connected with all of the feeding devices (19-21) for a data transfer.

~~76.~~ The system as claimed in any one of the preceding claims, characterised in that the identification label and the time period label and/or the determined parameter data are encrypted.

87. The system as claimed in any one of the preceding claims, characterised in that the sampling device (1b, 2b, 3b) is a syringe or a blood sampling tube, the blood collection container of which or a blood collection container coupled therewith is
 5 linked on the outside thereof with the barcode, the data matrix code and/or a transponder.

98. The system as claimed in any one of claims 2-76, characterised in that within the common data record, the data record of the determined parameters is
 10 frequency and/or amplitude modulated with the data of the identification label and the time period label.

109. The system as claimed in any one of claims 2-76, characterised in that the common data record is present in a binary-coded form.

110. A method for monitoring respectively at least one blood parameter for blood of various patients (1, 2, 3), comprising the following steps:

- analysing (32) a blood sample taken from each patient (1, 2, 3) with regard to specifiable parameters of the blood by means of blood analysis devices (7, 9) that
 20 can be commonly used for a plurality of blood samples from different patients (1-3);
 and

- calculating (35) medicament parameters of the medicaments to be administered to the respective patients on the basis of data records of the determined parameters of the analysed blood by means of a common calculation
 25 device (15); and

~~characterised in that~~

associating (33) by means of an association device (11), respectively one identification label for identifying a patient and/or a time period label for indicating a time period during which the blood was taken, ~~are associated (33)~~ with each data
 30 record of the parameters of the analysed blood, which were determined by the blood analysis device (7, 9), of a patient (1-3)

characterised by

transferring (36) the data set of medicament parameters to a plurality of associated feeding devices (19, 20, 21) which are operative to feed a corresponding amount of the respective medicament to the respective patient (1-3), wherein
each data set of medicament parameters, including a dose unit, for the
5 respective patient, together with the identification code and/or period of time code, is
transmitted as a common data set in a wired or wireless manner from the calculation
device (15) to at least one respective feeding device (19, 20, 21).

10 ~~12. The method as claimed in claim 11, characterised in that each data record~~
~~of the determined parameters of the analysed blood is transferred in a wired or~~
~~wireless manner respectively as a common data record from the blood analysis~~
~~device (7, 9) to one or more of the feeding devices (19, 20, 21) together with the~~
~~identification label and the time period label.~~